

# Historical Hurricane Impact on CRT Deals

## Overview

This report is designed to provide historical hurricane impact information on Freddie Mac CRT deals. Two tables are included for each major hurricane tracked on Clarity Data Intelligence® (Clarity). One table displays the impact based on loans whose borrowers entered a forbearance plan within 12 months of the hurricane and the other table shows the impact based on loans becoming D60+ within 12 months of the hurricane.

The first row of each table depicts the total number of loans and total current unpaid principal balance (CUPB) at the time the hurricane hit in our actual loss, low and high LTV transactions (CRT Deals). The next row shows the subset of the loans/CUPB in our CRT deals that is also in the counties that FEMA had designated as eligible for individual assistance for the applicable hurricane within 12 months of when the hurricane hit. The third row shows the loans/CUPB that in addition to being in CRT deals and in the FEMA counties, was either D60+ or in forbearance, as applicable, within 12 months of the hurricane. The fourth row then shows the subset of that population that ultimately became a credit event within 36 months of the hurricane. Finally, the last row of the table shows the severity for the loans that experienced a credit event.

To assist in reading the tables, take a look at the Hurricane Harvey forbearance table as an example. When Hurricane Harvey hit, 2,011,409 loans were in CRT Deals. Of those loans, 51,934 loans, or 2.6%, were in the counties that FEMA designated as eligible for individual assistance because of the hurricane. Of those loans, 1,875 loans, or 3.6%, entered a forbearance plan within 12 months of the hurricane. And of those loans, 29 loans or 1.5% became a credit event within 36 months of the hurricane and had an average severity of 7.6%. Looking at the impact on CRT Deals, 0.1 bps of loans in CRT deals became a credit event within 36 months of the hurricane. Of the loans in the FEMA counties, 6 bps of the loans became a credit event within 36 months. Of those loans in the FEMA counties that also entered forbearance within 12 months of the hurricane, 1.5% became credit events within 36 months.

## Disclaimer

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## Hurricane Harvey 2017

### Forbearance

Category	Loans				CUPB			
	Loans	% of CRT (a)	% of FEMA Cnty (b)	% of FB (c)	CUPB	% of CRT (a)	% of FEMA Cnty (b)	% of FB (c)
(a) Active Loans in CRT Deals	2,011,409				465,974,420,956			
(b) and in FEMA Counties	51,934	2.6%			10,996,952,725	2.4%		
(c) and FB within 12 months	1,875	0.09%	3.6%		401,739,748	0.09%	3.7%	
(d) and Credit Event within 36 months	29	0.001%	0.06%	1.5%	7,749,356	0.002%	0.07%	1.9%
Severity of loans in (d)	7.6%							

### D60+

Category	Loans				CUPB			
	Loans	% of CRT (a)	% of FEMA Cnty (b)	% of D60+ (c)	CUPB	% of CRT (a)	% of FEMA Cnty (b)	% of D60+ (c)
(a) Active Loans in CRT Deals	2,011,409				465,974,420,956			
(b) and in FEMA Counties	51,934	2.6%			10,996,952,725	2.4%		
(c) and D60+ within 12 months	1,620	0.08%	3.1%		351,660,080	0.08%	3.2%	
(d) and Credit Event within 36 months	34	0.002%	0.07%	2.1%	8,309,439	0.002%	0.08%	2.4%
Severity of loans in (d)	8.1%							

## Hurricane Irma 2017

### Forbearance

Category	Loans				CUPB			
	Loans	% of CRT (a)	% of FEMA Cnty (b)	% of FB (c)	CUPB	% of CRT (a)	% of FEMA Cnty (b)	% of FB (c)
(a) Active Loans in CRT Deals	1,905,813				439,385,028,886			
(b) and in FEMA Counties	141,465	7.4%			28,310,919,733	6.4%		
(c) and FB within 12 months	5,815	0.31%	4.1%		1,286,801,431	0.29%	4.5%	
(d) and Credit Event within 36 months	22	0.001%	0.02%	0.4%	3,999,529	0.001%	0.01%	0.3%
Severity of loans in (d)	4.9%							

### D60+

Category	Loans				CUPB			
	Loans	% of CRT (a)	% of FEMA Cnty (b)	% of D60+ (c)	CUPB	% of CRT (a)	% of FEMA Cnty (b)	% of D60+ (c)
(a) Active Loans in CRT Deals	1,905,813				439,385,028,886			
(b) and in FEMA Counties	141,465	7.4%			28,310,919,733	6.4%		
(c) and D60+ within 12 months	4,858	0.25%	3.4%		1,078,576,555	0.25%	3.8%	
(d) and Credit Event within 36 months	28	0.001%	0.02%	0.6%	5,478,432	0.001%	0.02%	0.5%
Severity of loans in (d)	4.9%							

## Hurricane Maria 2017

### Forbearance

Category	Loans				CUPB			
	Loans	% of CRT (a)	% of FEMA Cnty (b)	% of FB (c)	CUPB	% of CRT (a)	% of FEMA Cnty (b)	% of FB (c)
(a) Active Loans in CRT Deals	1,782,253				412,260,569,545			
(b) and in FEMA Counties	352	0.0%			81,267,240	0.0%		
(c) and FB within 12 months	43	0.00%	12.2%		8,967,235	0.00%	11.0%	
(d) and Credit Event within 36 months	0	0.000%	0.00%	0.0%	0	0.000%	0.00%	0.0%
Severity of loans in (d)	N/A							

### D60+

Category	Loans				CUPB			
	Loans	% of CRT (a)	% of FEMA Cnty (b)	% of D60+ (c)	CUPB	% of CRT (a)	% of FEMA Cnty (b)	% of D60+ (c)
(a) Active Loans in CRT Deals	1,782,253				412,260,569,545			
(b) and in FEMA Counties	352	0.0%			81,267,240	0.0%		
(c) and D60+ within 12 months	37	0.00%	10.5%		7,231,360	0.00%	8.9%	
(d) and Credit Event within 36 months	0	0.000%	0.00%	0.0%	0	0.000%	0.00%	0.0%
Severity of loans in (d)	N/A							

## Hurricane Florence 2018

### Forbearance

Category	Loans				CUPB			
	Loans	% of CRT (a)	% of FEMA Cnty (b)	% of FB (c)	CUPB	% of CRT (a)	% of FEMA Cnty (b)	% of FB (c)
(a) Active Loans in CRT Deals	2,574,187				555,739,602,958			
(b) and in FEMA Counties	39,707	1.5%			7,379,416,519	1.3%		
(c) and FB within 12 months	346	0.01%	0.9%		63,538,584	0.01%	0.9%	
(d) and Credit Event within 36 months	9	0.000%	0.02%	2.6%	1,119,098	0.000%	0.02%	1.8%
Severity of loans in (d)	21.7%							

### D60+

Category	Loans				CUPB			
	Loans	% of CRT (a)	% of FEMA Cnty (b)	% of D60+ (c)	CUPB	% of CRT (a)	% of FEMA Cnty (b)	% of D60+ (c)
(a) Active Loans in CRT Deals	2,574,187				555,739,602,958			
(b) and in FEMA Counties	39,707	1.5%			7,379,416,519	1.3%		
(c) and D60+ within 12 months	264	0.01%	0.7%		47,882,854	0.01%	0.6%	
(d) and Credit Event within 36 months	19	0.001%	0.05%	7.2%	2,424,828	0.000%	0.03%	5.1%
Severity of loans in (d)	19.6%							

## Hurricane Michael 2018

### Forbearance

Category	Loans				CUPB			
	Loans	% of CRT (a)	% of FEMA Cnty (b)	% of FB (c)	CUPB	% of CRT (a)	% of FEMA Cnty (b)	% of FB (c)
(a) Active Loans in CRT Deals	2,574,187				586,684,674,268			
(b) and in FEMA Counties	7,000	0.3%			1,219,910,539	0.2%		
(c) and FB within 12 months	156	0.01%	2.2%		26,881,424	0.00%	2.2%	
(d) and Credit Event within 36 months	2	0.000%	0.03%	1.3%	108,292	0.000%	0.01%	0.4%
Severity of loans in (d)	26.9%							

### D60+

Category	Loans				CUPB			
	Loans	% of CRT (a)	% of FEMA Cnty (b)	% of D60+ (c)	CUPB	% of CRT (a)	% of FEMA Cnty (b)	% of D60+ (c)
(a) Active Loans in CRT Deals	2,574,187				586,684,674,268			
(b) and in FEMA Counties	7,000	0.3%			1,219,910,539	0.2%		
(c) and D60+ within 12 months	83	0.00%	1.2%		14,161,288	0.00%	1.2%	
(d) and Credit Event within 36 months	1	0.000%	0.01%	1.2%	55,603	0.000%	0.00%	0.4%
Severity of loans in (d)	8.9%							

## Hurricane Laura 2020

### Forbearance

Category	Loans				CUPB			
	Loans	% of CRT (a)	% of FEMA Cnty (b)	% of FB (c)	CUPB	% of CRT (a)	% of FEMA Cnty (b)	% of FB (c)
(a) Active Loans in CRT Deals	3,272,490				732,322,221,522			
(b) and in FEMA Counties	7,569	0.2%			1,388,833,380	0.2%		
(c) and FB within 12 months	320	0.01%	4.2%		58,173,303	0.01%	4.2%	
(d) and Credit Event within 36 months	6	0.000%	0.08%	1.9%	1,004,547	0.000%	0.07%	1.7%
Severity of loans in (d)	22.5%							

### D60+

Category	Loans				CUPB			
	Loans	% of CRT (a)	% of FEMA Cnty (b)	% of D60+ (c)	CUPB	% of CRT (a)	% of FEMA Cnty (b)	% of D60+ (c)
(a) Active Loans in CRT Deals	3,272,490				732,322,221,522			
(b) and in FEMA Counties	7,569	0.2%			1,388,833,380	0.2%		
(c) and D60+ within 12 months	201	0.01%	2.7%		36,662,980	0.01%	2.6%	
(d) and Credit Event within 36 months	3	0.000%	0.04%	1.5%	559,192	0.000%	0.04%	1.5%
Severity of loans in (d)	32.1%							

## Hurricane Ida 2021

### Forbearance

Category	Loans				CUPB			
	Loans	% of CRT (a)	% of FEMA Cnty (b)	% of FB (c)	CUPB	% of CRT (a)	% of FEMA Cnty (b)	% of FB (c)
(a) Active Loans in CRT Deals	3,860,404				957,673,390,617			
(b) and in FEMA Counties	41,433	1.1%			8,942,643,965	0.9%		
(c) and FB within 12 months	945	0.02%	2.3%		195,325,866	0.02%	2.2%	
(d) and Credit Event within 36 months	3	0.000%	0.01%	0.3%	579,514	0.000%	0.01%	0.3%
Severity of loans in (d)	24.8%							

### D60+

Category	Loans				CUPB			
	Loans	% of CRT (a)	% of FEMA Cnty (b)	% of D60+ (c)	CUPB	% of CRT (a)	% of FEMA Cnty (b)	% of D60+ (c)
(a) Active Loans in CRT Deals	3,860,404				957,673,390,617			
(b) and in FEMA Counties	41,433	1.1%			8,942,643,965	0.9%		
(c) and D60+ within 12 months	672	0.02%	1.6%		136,223,135	0.01%	1.5%	
(d) and Credit Event within 36 months	9	0.000%	0.02%	1.3%	1,641,855	0.000%	0.02%	1.2%
Severity of loans in (d)	24.2%							

## Hurricane Ian 2022

### Forbearance

Category	Loans				CUPB			
	Loans	% of CRT (a)	% of FEMA Cnty (b)	% of FB (c)	CUPB	% of CRT (a)	% of FEMA Cnty (b)	% of FB (c)
(a) Active Loans in CRT Deals	5,494,595				1,480,221,061,532			
(b) and in FEMA Counties	297,154	5.4%			73,699,030,428	5.0%		
(c) and FB within 12 months	3,367	0.06%	1.1%		856,007,488	0.06%	1.2%	
(d) and Credit Event within 23 months	2	0.000%	0.00%	0.1%	461,884	0.000%	0.00%	0.1%
Severity of loans in (d)	14.5%							

### D60+

Category	Loans				CUPB			
	Loans	% of CRT (a)	% of FEMA Cnty (b)	% of D60+ (c)	CUPB	% of CRT (a)	% of FEMA Cnty (b)	% of D60+ (c)
(a) Active Loans in CRT Deals	5,494,595				1,480,221,061,532			
(b) and in FEMA Counties	297,154	5.4%			73,699,030,428	5.0%		
(c) and D60+ within 12 months	3,393	0.06%	1.1%		865,088,659	0.06%	1.2%	
(d) and Credit Event within 23 months	7	0.000%	0.00%	0.2%	1,633,687	0.000%	0.00%	0.2%
Severity of loans in (d)	12.3%							

\*Note that less than 36 months have elapsed since Hurricane Ian and that the number of credit events and their severity may differ in future periods