

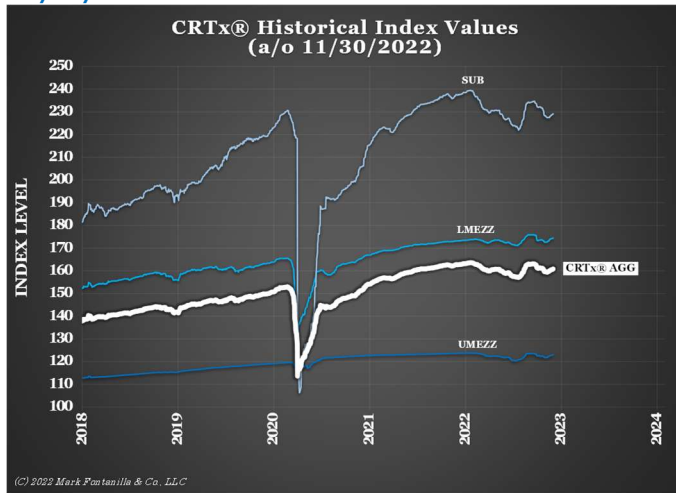
**CRTx®**

*Credit Risk Transfer Return Tracking Index*

[www.markfontanilla.com/crtx-index](http://www.markfontanilla.com/crtx-index)

**CRTx® Index Rebalancing Update**

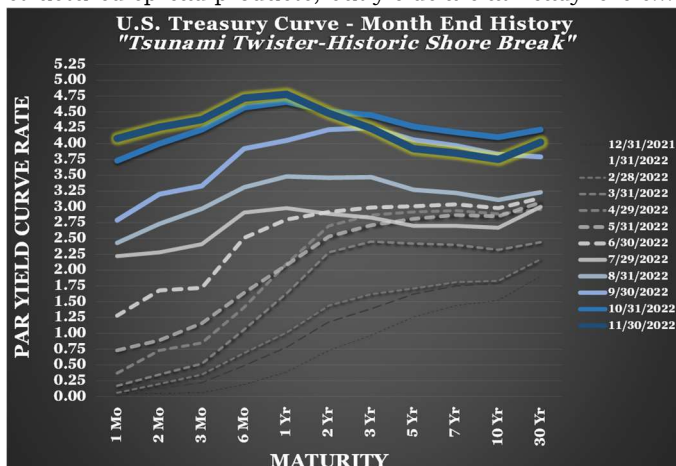
11/30/2022



**Sector Musings**

**“Tsunami Curve”- Shore Break**

The gyrations of 2022’s Fed-influenced “tsunami twister” curve has reached significant levels as the 2y/10y spread broke below -70bps in the last days of November, a level not seen since the early ‘80s inflation/recession. What is unique this time around is not only the starting point off historically low rates, but the ebb and flow of the curve along the way (see below) as the belly/long end rise and fall, while the front end marches higher, apparently on different paths. The key here is that the Fed is influencing both the short and long ends: Fed Funds hikes on one end, and a still-\$8T+ QE Treasury/MBS bond balance sheet on the other end holding meaningful supply back. This technical “shore break” effect certainly makes valuation challenging, especially in structured spread products, but yields are at heady levels...



**Inside**

**CRTx® Index Summary Panels** Page 2

- CRTx® AGG Index Rebalancing Stats
- CRTx® RNI™ AGG Index Rebalancing Stats

**Return Roundup** Page 3

The CRTx® Aggregate posted a 0.61% gain in November, ending a significant 2-month losing streak...CRT underperformed major bond sectors as a lower belly/long end of the curve boosted fixed rates, especially longer-duration IG and MBS... YTD the standard CRTx® Aggregate is still down -1.57%, while the CRTx® RNI™ (Rolling New Issues) Aggregate is at -5.34%...

**Index Rebalancing Metrics** Page 3

The CRTx® December basket UPB falls 0.84% MoM to \$52.8B, with a total market value of \$50.8B. Constituent count marginally decreases to 323 securities from 123 deals...Benchmark GSE CRT float shrank -\$0.4B/-0.84% MoM, to \$52.8B in UPB...

**Latest Deal Performance** Page 5

CRT credit performance in the November statements showed October trends continuing, with pre-COVID late-stage DQs continuing to shrink, while early stage DQs edging slightly higher MoM...Structurally, writedowns/shortfalls were once again muted, CPRs slowed further, and C/Es were steady to slightly better...

**Relative Value Thoughts** Page 5

With just one month left to go in 2022, structured product markets remain challenging, despite Fed Chair Powell hinting at possibly smaller rate hikes in the near future and broader bond and stock markets gaining back some lost ground...For CRT, holding sector weight and clipping still-rising coupons remains the cautious bet...

**Additional Tables/Metrics** Pages 6-13

- CRTx® Index Suite Total Return Performance: Month-End Matrix
- CRTx® Index Basket History: Select Metrics
- CRTx® RNI™ Index Basket History: Select Metrics
- Latest Deal Performance Metrics: CAS
- Latest Deal Performance Metrics: STACR

**11/30/2022 Index Rebalancing Update** *(continued)*

**CRTx® Aggregate Index**

<b>Nov 2022 CRTx® AGG Tot Ret</b>	<b>+61 bps</b>
<b>Index Month-End Closing Value</b>	<b>160.61</b>
Price Attribution	-3 bps
Paydown Attribution	+0 bps
Cpn Accr&Pmt Attribution	+64 bps
Writedown+Int Shortfall Attribution	-0.09 bps
Excess Return	+31 bps
Volatility (Annualized)	0.88%
UPB Paydown %	0.84%
<b>QTD Total Return</b>	<b>-0.41%</b>
<b>YTD Total Return</b>	<b>-1.57%</b>

**CRTx® AGG Rebalancing For Dec 2022**  
As of 11/30/2022

December 2022 Aggregate Basket (w/MoM Δ):

- **Beg. UPB (\$B):** \$52.83 -0.8%
- **Beg. Market Value (\$B):** \$50.79 -0.9%
- **Constituents:** 323 -2
- **WAvg Constituent Value:** 96.14 -0.07 pts
- **WAvg Constituent Coupon:** 7.80% +50 bps

Index (+) Entries\* & (-) Exits

(+) None

(-) STACR2015-HQ1 B

(-) STACR 2020-DNA4 M2

\* 0.00% of Beg. Index Market Value

<b>CRTx® Mkt Val Breakdown: 12/2022 Basket</b>				
Deal Yr	Aggregate	UMEZZ	LMEZZ	SUB
<b>All</b>	<b>100.0%</b>	<b>24.8%</b>	<b>31.5%</b>	<b>43.7%</b>
2022	39.0%	21.0%	9.7%	8.2%
2021	21.8%	3.7%	7.5%	10.6%
2020	10.4%	0.0%	2.7%	7.7%
2019	6.1%	0.0%	0.6%	5.6%
2018	6.2%	0.0%	1.9%	4.3%
2017	6.8%	0.0%	2.6%	4.3%
2016	3.9%	0.0%	2.1%	1.8%
2015	2.6%	0.0%	1.4%	1.2%
<=2014	3.1%	0.0%	3.1%	0.0%

**CRTx® RNI™ (Rolling New Issues) Agg. Index**

<b>Nov 2022 CRTx® RNI™ AGG Tot Ret</b>	<b>+109 bps</b>
<b>Index Month-End Closing Value</b>	<b>168.61</b>
Price Attribution	+48 bps
Paydown Attribution	+1 bps
Cpn Accr&Pmt Attribution	+60 bps
Writedown+Int Shortfall Attribution	+0 bps
Excess Return	+79 bps
Volatility (Annualized)	0.99%
UPB Paydown %	0.65%
<b>QTD Total Return</b>	<b>0.16%</b>
<b>YTD Total Return</b>	<b>-5.34%</b>

**CRTx® RNI™ AGG Rebalancing For Dec 2022**  
As of 11/30/2022

December 2022 Aggregate Basket (w/MoM Δ):

- **Beg. UPB (\$B):** \$23.11 -5.8%
- **Beg. Market Value (\$B):** \$22.13 -5.1%
- **Constituents:** 88 -4
- **WAvg Constituent Value:** 95.80 +0.69 pts
- **WAvg Constituent Coupon:** 7.30% +55 bps

Index (+) Entries\* & (-) Exits

(+) None

(-) STACR 2021-DNA7 M1/M2/B1/B2

\* 0.00% of Beg. Index Market Value

<b>CRTx® RNI™ Mkt Val Breakdown: 12/2022 Basket</b>				
Deal Yr	Aggregate	UMEZZ	LMEZZ	SUB
<b>All</b>	<b>100.0%</b>	<b>51.5%</b>	<b>25.6%</b>	<b>22.9%</b>
2022	89.5%	48.3%	22.3%	18.9%
2021	10.5%	3.2%	3.3%	4.0%
2020	0.0%	0.0%	0.0%	0.0%
2019	0.0%	0.0%	0.0%	0.0%
2018	0.0%	0.0%	0.0%	0.0%
2017	0.0%	0.0%	0.0%	0.0%
2016	0.0%	0.0%	0.0%	0.0%
2015	0.0%	0.0%	0.0%	0.0%
<=2014	0.0%	0.0%	0.0%	0.0%

11/30/2022 Index Rebalancing Update (continued)

Return Roundup

The CRTx® Aggregate posted a 0.61% gain in November, ending a significant 2-month losing streak as most fixed income and equity markets rebounded off recent lows throughout the month. CRT underperformed major bond sectors as a lower belly/long end of the curve boosted fixed rates, especially longer-duration IG and MBS. Intra-complex, the top/middle of the capital structure and newer issues led gains, but YTD the standard CRTx® Aggregate is still down -1.57%, while the CRTx® RNI™ (Rolling New Issues) Aggregate is at -5.34% with one month to go in the year.

11/30/2022		M/E RETURN ATTRIBUTION							Index Total Return
CRTx®	Index Mkt Val (\$B)	Price	CPN Accr.	CPN Pmt	Pay-down	Write-down Retun	Int Shortfall		
AGG	51.263	-0.03%	-0.01%	0.65%	0.00%	-0.0003%	-0.0006%	0.61%	
UMEZZ	12.707	0.51%	-0.01%	0.47%	0.02%	0.0000%	0.0000%	0.98%	
LMEZZ	16.159	0.37%	-0.01%	0.58%	-0.01%	0.0000%	0.0000%	0.93%	
SUB	22.397	-0.61%	-0.02%	0.81%	0.00%	-0.0007%	-0.0013%	0.18%	

11/30/2022		M/E RETURN ATTRIBUTION							Index Total Return
CRTx® RNI™	Index Mkt Val (\$B)	Price	CPN Accr.	CPN Pmt	Pay-down	Write-down Retun	Int Shortfall		
AGG	23.325	0.48%	-0.01%	0.61%	0.01%	0.0000%	0.0000%	1.09%	
UMEZZ	11.799	0.52%	-0.01%	0.48%	0.02%	0.0000%	0.0000%	1.00%	
LMEZZ	5.865	1.01%	-0.01%	0.62%	0.00%	0.0000%	0.0000%	1.61%	
SUB	5.661	-0.13%	-0.02%	0.89%	0.00%	0.0000%	0.0000%	0.74%	

Modest November gains in-excess-of-carry were generally seen in the middle/upper part of the CRT capital stack, while B classes largely returned at or below carry.

Supply technical didn't present much of a headwind again in November as new issue was absent and CRT float shrank.

Intra-Complex Highlights: November

- The UMEZZ Index (M1 variants) gained 0.98%, leading the complex with spreads tightening about 10bps on average for the top of CRT capital stack.
- The LMEZZ Index (M2s/M3s) followed UMEZZ, returning 0.93% as seasoned paper continued to provide steady risk/reward, while newer issues firmed up ~20bps for the month, with the RNI™ version gaining 1.61%.
- The SUB Index (B1/B2/Bs) at the bottom of the capital stack lagged the complex, similar to November's HY-vs.-IG performance differential, gaining a below-carry 0.18% on varied vintage performance.

Index Rebalancing Metrics

The CRTx® December basket UPB falls 0.84% MoM to \$52.8B, with a total market value of \$50.8B. Constituent count marginally decreases to 323 securities from 123 deals as a couple of tranches paid off, while no new issues enter the December Index basket.

Index Composition

There was little MoM change for the CRTx® December basket composition as only 2 classes paid off and no index-eligible securities were issued, while November paydowns were relatively low:

CRTx® AGG composition (December 2022 basket):

- 24.8% ↔ (vs 24.8% in Nov) - UMEZZ (M1/old M2s)
- 31.5% ↔ (vs 31.5% in Nov) - LMEZZ (M2/old M3s)
- 43.7% ↔ (vs 43.7% in Nov) - SUBs (B/B1/B2s)

A slim recovery in newer-issue spreads off recent lows helped take back a small fraction of M1/M2 price declines over the past several months, while B-classes lagged, combining to bring the Index WAvg constituent market value -0.07 points to \$96.14 (RNI™ AGG +0.69 to \$95.80). LIBOR/SOFR resets moved up again, raising the Index-blended constituent coupon +50bps to 7.80% and effective carry to ~68bps to next reset.

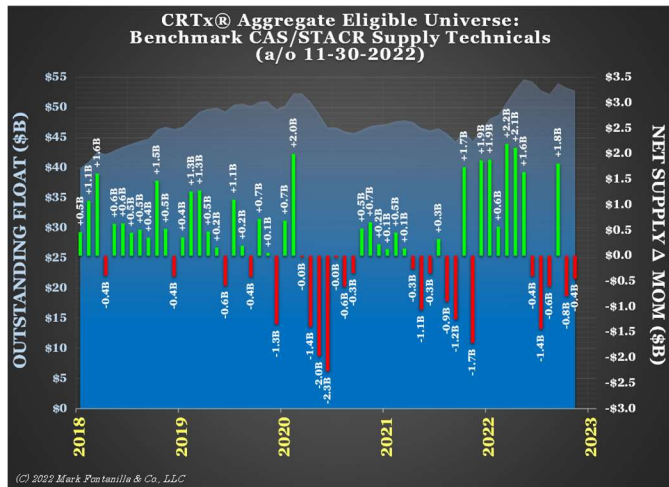
Index cashflow average life- and duration-to-optional-redemption for December's basket shortens slightly to a rebalanced 3.39 years and 2.69 years, respectively.

2022 GSE CRT Deal Pricing Margins (bps) & Orig. Ces							
Close	Pricing Margin / Original CE						
Date	2022 Deals	LTV	M1 or M1A/M1B	M2	B1	B2	
01/20	CAS 22-R01	L	100/2.30	190/1.45	315/0.85	600/0.25	
01/21	STACR 22-DNA1	L	100/3.00 185/2.00	250/1.25	340/0.75	710/0.25	
02/09	CAS 22-R02	H	120/2.45	300/1.55	450/0.90	765/0.35	
02/11	STACR 22-DNA2	L	130/3.40 240/2.00	375/1.25	475/0.75	850/0.25	
03/18	STACR 22-HQA1	H	210/3.75 350/2.60	525/1.25	700/0.75	1100/0.25	
03/30	CAS 22-R03	L	210/2.15	350/1.25	625/0.75	985/0.25	
04/08	CAS 22-R04	L	200/2.35	310/1.35	525/0.80	950/0.25	
04/18	STACR 22-DNA3	L	200/3.60 290/2.00	435/1.25	565/0.75	975/0.25	
05/11	CAS 22-R05	H	190/2.45	300/1.85	450/1.45	700/0.65	
05/13	STACR 22-DNA4	L	220/3.60 335/2.00	525/1.25	625/0.75	1025/0.25	
06/10	CAS 22-R06	L	275/2.50	385/1.45	635/0.85	1060/0.30	
06/17	STACR 22-DNA5	L	295/3.60 450/2.05	675/1.25	750/0.75	1290/0.25	
07/01	CAS 22-R07	L	295/2.55	465/1.60	680/1.00	1200/0.30	
07/29	STACR 22-HQA2	H	265/3.00 400/2.00	600/1.25			
08/05	CAS 22-R08	L	255/2.55	360/1.90	560/1.10		
08/12	STACR 22-HQA3	H	230/3.00 355/2.00	535/1.25			
09/16	STACR 22-DNA6	L	215/3.60 370/2.20	575/1.30			
09/28	CAS 22-R09	H	250/2.80	475/1.90	675/1.25		
09/30	STACR 22-DNA7	L	250/3.50 500/2.55	700/1.50			

11/30/2022 Index Rebalancing Update (continued)

Sector Supply

Benchmark GSE CRT float shrank **-\$0.4B/-0.84% MoM**, to **\$52.8B** in UPB as of November month-end. The lowest monthly paydowns of the year (due to the slowest CPRs of the year) and an absence of November new issues caused negative net supply for a 2<sup>nd</sup> month in a row.



2022's sector record gross supply continues to hold at **\$21.6B YTD**, +53% more than the next-highest gross supply tally, 2021's **\$14.1B** total issuance. Intra-complex, float was incrementally lower across the board MoM:

NOV. 2022 Index-eligible **NET SUPPLY** breakdown:

- **UMEZZ** **-0.196 B (- 1.50% MoM)**
  - Front-pay M1 variants at the top of the capital stack saw proportionally higher, but still nominally modest, paydowns as CPRs inched lower. Float is still smallest of the complex.
- **LMEZZ** **-0.190 B (- 1.14% MoM)**
  - Seasoned M2s/Old M3s have all started paying down, while recent M2s are in slow-paying structures at this juncture. Overall, the middle of the capital structure is likely to keep shrinking in the near term.
- **SUB** **-0.062 B (- 0.26% MoM)**
  - New issue B-variants continue to be limited to CAS B1s, and a function of deal issuance sizes overall. Only a few seasoned Bs and B1s are paying down so float should remain generally steady heading into next year.

CRTx® AGG (eligible universe as of 11/30/22)

BENCHMARK GSE CRT SUPPLY TECHNICALS (\$MM)							
Month End	Float <sub>1</sub>	Gross Supply <sub>2</sub>	Pay-downs <sub>1</sub>	Write-downs <sub>1</sub>	Tenders <sub>1</sub>	Net Supply <sub>1</sub>	% Δ MoM
2018-Jan	39,939.51	900.00	434.89	.40	.00	+464.71	+1.18%
2018-Feb	41,017.07	1,494.06	416.25	.25	.00	+1,077.56	+2.70%
2018-Mar	42,628.56	1,992.02	380.11	.42	.00	+1,611.49	+3.93%
2018-Apr	42,241.57	.00	386.48	.51	.00	-386.99	-0.91%
2018-May	42,864.97	1,050.03	426.17	.45	.00	+623.40	+1.48%
2018-Jun	43,499.75	1,050.00	414.55	.67	.00	+634.78	+1.48%
2018-Jul	43,951.18	939.46	487.56	.47	.00	+451.43	+1.04%
2018-Aug	44,461.53	982.68	471.84	.49	.00	+510.35	+1.16%
2018-Sep	44,818.31	820.00	463.05	.18	.00	+356.78	+0.80%
2018-Oct	46,292.11	1,918.19	443.93	.46	.00	+1,473.80	+3.29%
2018-Nov	46,818.17	921.89	395.46	.36	.00	+526.06	+1.14%
2018-Dec	46,413.76	.00	404.16	.25	.00	-404.41	-0.86%
2019-Jan	46,772.85	714.00	354.36	.55	.00	+359.09	+0.77%
2019-Feb	48,032.92	1,600.30	339.91	.32	.00	+1,260.07	+2.69%
2019-Mar	49,316.49	1,610.43	326.50	.36	.00	+1,283.57	+2.67%
2019-Apr	49,790.89	857.33	382.45	.48	.00	+474.40	+0.96%
2019-May	49,953.47	615.00	451.76	.67	.00	+162.58	+0.33%
2019-Jun	49,366.80	.00	585.65	1.02	.00	-586.67	-1.17%
2019-Jul	50,468.73	1,786.82	684.96	-.08	.00	+1,101.93	+2.23%
2019-Aug	50,665.72	993.16	795.69	.48	.00	+196.99	+0.39%
2019-Sep	50,254.38	626.00	1,036.70	.64	.00	-411.34	-0.81%
2019-Oct	50,975.91	1,882.85	1,160.69	.63	.00	+721.53	+1.44%
2019-Nov	51,029.16	1,430.31	1,376.63	.42	.00	+53.25	+0.10%
2019-Dec	49,686.84	.00	1,341.71	.61	.00	-1,342.32	-2.63%
2020-Jan	50,375.85	1,827.24	1,137.97	.27	.00	+689.01	+1.39%
2020-Feb	52,372.79	3,041.29	1,043.58	.78	.00	+1,996.94	+3.96%
2020-Mar	52,342.28	1,006.00	1,035.91	.60	.00	-30.51	-0.06%
2020-Apr	50,951.32	.00	1,390.53	.43	.00	-1,390.96	-2.66%
2020-May	48,983.31	.00	1,967.51	.50	.00	-1,968.01	-3.86%
2020-Jun	46,718.91	.00	2,263.91	.49	.00	-2,264.40	-4.62%
2020-Jul	46,681.77	1,941.00	1,977.70	.44	.00	-37.14	-0.08%
2020-Aug	46,076.35	1,088.00	1,693.03	.39	.00	-605.42	-1.30%
2020-Sep	45,735.37	680.00	1,020.66	.31	.00	-340.98	-0.74%
2020-Oct	46,269.82	1,086.00	551.37	.18	.00	+534.45	+1.17%
2020-Nov	46,924.62	1,080.00	425.03	.16	.00	+654.80	+1.42%
2020-Dec	47,148.36	790.00	565.97	.30	.00	+223.74	+0.48%
2021-Jan	47,277.42	970.00	840.51	.43	.00	+129.06	+0.27%
2021-Feb	47,729.91	1,386.00	933.14	.38	.00	+452.49	+0.96%
2021-Mar	47,872.55	1,188.00	1,045.16	.20	.00	+142.64	+0.30%
2021-Apr	47,615.04	950.00	1,207.50	.02	.00	-257.51	-0.54%
2021-May	46,556.67	.00	1,058.11	.25	.00	-1,058.37	-2.22%
2021-Jun	46,213.56	550.00	892.87	.23	.00	-343.11	-0.74%
2021-Jul	46,542.26	1,186.00	857.10	.20	.00	+328.70	+0.71%
2021-Aug	45,645.02	.00	896.92	.32	.00	-897.24	-1.93%
2021-Sep	44,395.83	1,071.00	977.13	.08	1,342.98	-1,249.19	-2.74%
2021-Oct	46,136.81	2,686.01	944.99	.04	.00	+1,740.98	+3.92%
2021-Nov	44,428.70	1,276.00	893.50	.37	2,090.24	-1,708.11	-3.70%
2021-Dec	46,303.37	2,855.84	978.99	2.18	.00	+1,874.67	+4.22%
2022-Jan	48,187.25	2,859.26	974.26	1.13	.00	+1,883.88	+4.07%
2022-Feb	48,758.20	3,159.89	879.88	.58	1,708.47	+570.95	+1.18%
2022-Mar	50,947.78	3,057.61	867.66	.37	.00	+2,189.58	+4.49%
2022-Apr	53,065.96	2,984.38	865.97	.24	.00	+2,118.18	+4.16%
2022-May	54,707.01	2,471.03	829.79	.19	.00	+1,641.05	+3.09%
2022-Jun	54,305.82	2,176.38	689.16	.38	1,888.03	-401.19	-0.73%
2022-Jul	52,868.64	1,493.11	598.48	.17	2,331.64	-1,437.18	-2.65%
2022-Aug	52,267.27	1,166.30	509.11	.14	1,258.41	-601.37	-1.14%
2022-Sep	54,074.84	2,273.03	465.18	.28	.00	+1,807.57	+3.46%
2022-Oct	53,282.61	.00	474.53	.27	317.43	-792.23	-1.47%
2022-Nov	52,835.00	.00	447.47	.14	.00	-447.61	-0.84%

1-Current Face  
2-Original face issued based on CAS/STACR deal closing dates  
Sources: FNMA, FHLMC, MF&Co



**11/30/2022 Index Rebalancing Update** *(continued)***Latest Deal Performance**

CRT credit performance in the November statements showed October trends continuing, with pre-COVID late-stage DQs continuing to shrink, while early stage DQs edging slightly higher MoM (based on STACR experience). Post-COVID onset DQs remained low, but also inching higher. Structurally, writedowns/shortfalls were once again muted, CPRs slowed further, and C/Es were steady to slightly better.

**Credit**

- STACR pre-COVID total DQ %s edged up overall (CAS observation window lags 1 month, DQs down slightly in Nov. statements), with 30d DQs up roughly 3% MoM, while 180+ bucket DQ #s/\$s fell again moderately. Newer deal 30d DQs also ticked up slightly but still below 1%.
- CRTx® 1st Loss Sub-Index (1st loss Bs) writedowns/int. shortfalls for November:
  - **-2.7 bps hit to 1<sup>st</sup> Loss Sub-Index:**
    - **-2.3 bps to Fxd. Sev. Sub-Index component** (vs. -3.6 bps in Oct.)

**Paydowns**

- **The CRTx® AGG's 0.84% Nov. UPB paydown-only percentage was much lower vs. October's paydown + tender percentage of 1.46%:**

- **MTD CRTx® AGG return attribution from paydowns/retirements: +0.2 bps**

**Nov. Index Paydowns** **\$447M**

- UMEZZ (Mostly M1s): **\$196M**
- LMEZZ (M2s/old M3s): **\$190M**
- SUB (Bs/B1s/B2s): **\$ 62M**

- **STACR factor speeds slowed another 1-2CPR on average, with current seasoned reference pool CPRs in 6-10CPR range, while newer 2022 deals are in the 3-5CPR range right now** (CAS likely following on a 1-month lag).

**Structure**

- Class C/E still building at a crawl now MoM.
- October LIBOR resets +43bps, SOFR resets +53bps. **YTD, LIBOR & SOFR resets are now up 392bps & 347bps, respectively.**

- One pre-COVID reference pool started passing its DQ test, leaving **just nine 2019/2020 pre-COVID REMICs left still failing.**
- **Call Watch> STACR 2015-HQ1 – 10% clean up threshold reached:**
  - **Last remaining B class fully paid off**
  - \$1.7B remaining ref. pool UPB removed:
    - 0.00 Factor

**Relative Value Thoughts****Ideas**

With just one month left to go in 2022, structured product markets remain challenging, despite Fed Chair Powell hinting at possibly smaller rate hikes in the near future and broader bond and stock markets gaining back some lost ground. The fact remains that rates and credit spreads are still extraordinarily higher vs. the beginning of the year, and year-end liquidity is certainly a factor.

Meanwhile, conventional mortgage credit/housing still looks reasonably contained, and coupon/static yield levels in the CRT stack are in the 7.0%-14.0% area, still within context, or even cheaper now, vs rating-equivalent IG/HY corporates. But, while investors have dipped back into the liquid duration of IG and MBS, other credit sectors are still sluggish.

For CRT, holding sector weight and clipping still-rising coupons remains the cautious bet with 4 weeks to go in the 2022 season. Looking towards the start of 2023, for opportunists, that could be a different story...

CRTx® Index Suite Total Return Performance: Month-End Matrix 11/30/2022

CRTx® (Credit Risk Transfer Return Tracking Index) Return Summary								
	Index Level	RETURNS						
		Period			Annualized		As of Date	
		MTD	QTD	YTD	1-YR	3-YR		
<b>Aggregate</b>	<b>160.61</b>	<b>0.61%</b>	<b>-0.41%</b>	<b>-1.57%</b>	<b>-1.28%</b>	<b>2.36%</b>	<b>11-30-22</b>	
<b>Upper Mezzanine</b>	<b>122.98</b>	<b>0.98%</b>	0.34%	-0.60%	-0.57%	1.13%	11-30-22	
<b>Lower Mezzanine</b>	<b>174.25</b>	<b>0.93%</b>	0.52%	0.46%	0.62%	2.22%	11-30-22	
<b>Subordinate</b>	<b>228.73</b>	<b>0.18%</b>	-1.51%	-4.14%	-3.65%	1.42%	11-30-22	
<b>Upper/Lower Mezz.</b>	<b>154.48</b>	<b>0.95%</b>	0.44%	0.31%	0.46%	2.29%	11-30-22	
<b>Lower Mezz./Sub.</b>	<b>181.67</b>	<b>0.49%</b>	-0.65%	-1.73%	-1.43%	2.12%	11-30-22	
<b>CAS</b>	<b>159.41</b>	<b>0.81%</b>	-0.21%	0.17%	0.45%	2.88%	11-30-22	
<b>STACR</b>	<b>159.09</b>	<b>0.48%</b>	-0.54%	-2.74%	-2.44%	2.00%	11-30-22	
<b>LLTV</b>	<b>160.15</b>	<b>0.77%</b>	-0.37%	-1.30%	-1.01%	2.35%	11-30-22	
<b>HLTV</b>	<b>142.54</b>	<b>0.30%</b>	-0.49%	-2.13%	-1.82%	2.30%	11-30-22	
<b>Upper Mezzanine</b>	<b>2022</b>	<b>98.92</b>	<b>1.08%</b>	0.50%	-1.08%	-	-	11-30-22
	<b>2021</b>	<b>99.60</b>	<b>0.47%</b>	-0.52%	-1.08%	-1.05%	-	11-30-22
	<b>2020</b>		-	-	-	-	-	11-30-22
	<b>2019</b>		-	-	-	-	-	11-30-22
	<b>2018</b>		-	-	-	-	-	11-30-22
	<b>2017</b>		-	-	-	-	-	11-30-22
	<b>2016</b>		-	-	-	-	-	11-30-22
	<b>2015</b>		-	-	-	-	-	11-30-22
	<b>&lt;=2014</b>		-	-	-	-	-	11-30-22
<b>Lower Mezzanine</b>	<b>2022</b>	<b>95.22</b>	<b>1.67%</b>	1.62%	-4.78%	-	-	11-30-22
	<b>2021</b>	<b>98.02</b>	<b>1.34%</b>	-0.61%	-5.21%	-5.11%	-	11-30-22
	<b>2020</b>	<b>102.94</b>	<b>0.27%</b>	0.26%	1.92%	2.09%	-	11-30-22
	<b>2019</b>	<b>115.43</b>	<b>-0.33%</b>	0.81%	2.20%	2.34%	2.95%	11-30-22
	<b>2018</b>	<b>117.44</b>	<b>0.15%</b>	-0.76%	1.64%	1.98%	3.02%	11-30-22
	<b>2017</b>	<b>133.86</b>	<b>0.41%</b>	0.64%	2.45%	2.54%	2.94%	11-30-22
	<b>2016</b>	<b>154.36</b>	<b>-0.19%</b>	0.25%	4.09%	4.09%	3.25%	11-30-22
	<b>2015</b>	<b>143.81</b>	<b>0.44%</b>	0.78%	4.18%	4.40%	2.84%	11-30-22
	<b>&lt;=2014</b>	<b>172.70</b>	<b>0.39%</b>	0.54%	2.86%	3.17%	3.17%	11-30-22
<b>Subordinate</b>	<b>2022</b>	<b>94.65</b>	<b>0.51%</b>	-0.84%	-5.35%	-	-	11-30-22
	<b>2021</b>	<b>94.05</b>	<b>0.36%</b>	-2.47%	-12.22%	-11.38%	-	11-30-22
	<b>2020</b>	<b>92.86</b>	<b>-1.05%</b>	-2.51%	-4.00%	-3.88%	-	11-30-22
	<b>2019</b>	<b>133.17</b>	<b>0.42%</b>	-1.00%	1.17%	1.63%	3.53%	11-30-22
	<b>2018</b>	<b>127.57</b>	<b>0.16%</b>	-1.56%	0.08%	0.46%	2.84%	11-30-22
	<b>2017</b>	<b>160.55</b>	<b>0.59%</b>	-0.62%	1.68%	1.99%	3.00%	11-30-22
	<b>2016</b>	<b>203.89</b>	<b>0.98%</b>	0.53%	3.22%	4.02%	3.73%	11-30-22
	<b>2015</b>	<b>215.52</b>	<b>0.45%</b>	0.67%	3.18%	3.43%	1.68%	11-30-22
	<b>&lt;=2014</b>							11-30-22

CRTx® Index Suite Total Return Performance: Month-End Matrix 11/30/2022 (continued)

CRTx® RNI™ (Rolling New Issues*) Return Summary							
RETURNS							
	Index Level	Period			Annualized		As of Date
		MTD	QTD	YTD	1-YR	3-YR	
<b>Aggregate</b>	<b>168.61</b>	<b>1.09%</b>	<b>0.16%</b>	<b>-5.34%</b>	<b>-4.90%</b>	<b>1.83%</b>	<b>11-30-22</b>
Upper Mezzanine	123.70	1.00%	0.38%	-0.65%	-0.62%	1.00%	11-30-22
Lower Mezzanine	182.48	1.61%	0.66%	-5.02%	-4.91%	0.98%	11-30-22
Subordinate	234.46	0.74%	-0.72%	-9.07%	-8.29%	0.37%	11-30-22
LLTV	168.55	1.27%	0.30%	-5.10%	-4.58%	2.10%	11-30-22
HLTV	148.95	0.65%	-0.16%	-6.02%	-5.78%	1.45%	11-30-22

\* Most recently issued securities within a "rolling" 12-month window

CRTx® (Credit Risk Transfer Return Tracking Index) Return Summary							
RETURNS							
Special Sub-Indexes:	Index Level	Period			Annualized		As of Date
		MTD	QTD	YTD	1-YR	3-YR	
Fxd Severity - Type I*	Custom Client Access Only	0.42%	0.84%	2.77%	3.15%	3.71%	11/30/22
Fxd Severity - Type II*		0.44%	0.25%	3.86%	3.98%	3.00%	11/30/22
Actual Loss		0.62%	-0.45%	-1.80%	-1.51%	2.41%	11/30/22
CAS Fxd Severity - Type I*		0.07%	0.53%	2.26%	2.71%	3.24%	11/30/22
STACR Fxd Severity - Type I*		0.67%	1.08%	3.17%	3.49%	4.11%	11/30/22
CAS Fxd Severity - Type II*		0.44%	0.02%	3.31%	3.51%	2.92%	11/30/22
STACR Fxd Severity - Type II*		0.44%	0.94%	5.50%	5.44%	3.35%	11/30/22
CAS Act. Loss		0.85%	-0.23%	-0.02%	0.26%	2.94%	11/30/22
STACR Act. Loss		0.48%	-0.58%	-2.96%	-2.66%	2.04%	11/30/22

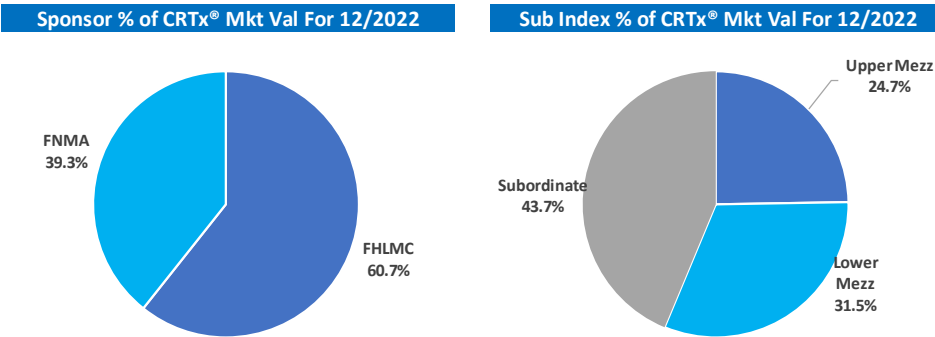
\* Type I - No Credit Event Relief Provisions For Natural Disaster/Casualty Events

Type II - Some Credit Event Relief Provisions For Natural Disaster/Casualty Events

\* CRTx® Aggregate Index and Sub Index Constituency

Aggregate	Upper Mezzanine	Lower Mezzanine	Subordinate	LLTV	HLTV
All Index-Eligible FNMA CAS shelf and FHLMC STACR shelf At-Issuance Classes	FNMA CAS Shelf: M1 Classes	FNMA CAS Shelf: M2 Classes	FNMA CAS Shelf: All B Classes	All Index-Eligible FNMA CAS shelf and FHLMC STACR shelf At-Issuance Classes from deals referencing Low Loan to Value (LLTV) loans	All Index-Eligible FNMA CAS shelf and FHLMC STACR shelf At-Issuance Classes from deals referencing High Loan to Value (HLTV) loans
	FHLMC STACR Shelf: M1 Classes (in M1/M2 structures) M1/M2 Classes (in M1/M2/M3 structures)	FHLMC STACR Shelf: M2 Classes (in M1/M2 structures) M3 Classes (in M1/M2/M3 structures)	FHLMC STACR Shelf: All B Classes		
	Vintage Sub Index constituency determined by deal/security closing year (except 2013/2014 which are grouped as "2014").				
RNI™ (Rolling New Issues) versions of the standard CRTx® Aggregate and Sub-Indexes have dynamic constituent baskets made up exclusively of the most recently issued securities within a "rolling" 12-month look-back window.					

CRTx® Index Basket History: Select Metrics As of 11/30/2022 Rebalancing



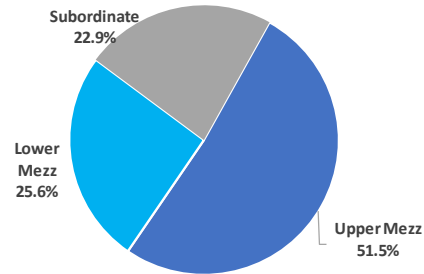
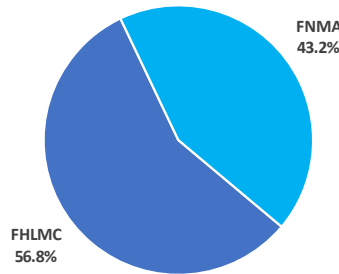
CRTx® AGG									
MONTH END CLOSINGS			BEGINNING MONTH BASKET						
Calculation Month	INDEX VALUE	Month to Date Total Return	# of Constituents	Beg Month UPB	Beg Month Total \$ Market Value	W Avg Adj Beg Month Security Mkt Value	WTD Avg Current Coupon	WTD Avg Cpn Margin	
Jan-2020	152.55	1.21%	228	49,686,844,416	52,466,578,192	105.60	5.35	356	
Feb-2020	152.31	-0.16%	232	50,375,851,983	53,580,028,930	106.36	5.20	354	
Mar-2020	113.64	-25.39%	240	52,372,791,379	55,277,944,042	105.55	5.11	348	
Apr-2020	123.83	8.97%	234	52,342,281,038	40,769,683,770	77.89	4.45	351	
May-2020	132.53	7.03%	229	50,951,320,646	42,820,320,693	84.04	4.03	355	
Jun-2020	144.50	9.04%	218	48,983,309,963	43,695,592,838	89.21	3.77	360	
Jul-2020	143.94	-0.39%	214	46,718,914,995	45,227,362,482	96.81	3.83	365	
Aug-2020	146.37	1.69%	217	46,681,772,649	44,843,108,762	96.06	3.87	370	
Sep-2020	147.99	1.11%	217	46,076,349,850	44,862,684,449	97.37	3.92	374	
Oct-2020	148.99	0.68%	220	45,735,370,315	44,865,412,741	98.10	3.90	375	
Nov-2020	151.26	1.52%	224	46,269,817,211	45,566,172,083	98.48	3.93	378	
Dec-2020	154.14	1.91%	228	46,924,624,650	46,772,793,230	99.68	3.93	378	
Jan-2021	155.99	1.20%	230	47,148,362,895	47,722,154,982	101.22	3.92	377	
Feb-2021	156.91	0.59%	232	47,277,423,099	48,281,726,799	102.12	3.90	377	
Mar-2021	156.58	-0.21%	235	47,729,907,668	48,857,887,219	102.36	3.87	376	
Apr-2021	158.53	1.25%	236	47,872,554,649	48,747,702,476	101.83	3.87	378	
May-2021	159.34	0.51%	238	47,615,037,767	48,936,401,435	102.78	3.89	380	
Jun-2021	160.42	0.68%	235	46,556,670,751	47,976,744,707	103.05	3.90	382	
Jul-2021	160.88	0.29%	239	46,213,562,998	47,807,083,563	103.45	3.91	383	
Aug-2021	161.28	0.25%	242	46,542,264,071	48,139,580,923	103.43	3.91	383	
Sep-2021	162.16	0.55%	240	45,645,024,894	47,210,049,253	103.43	3.93	385	
Oct-2021	162.45	0.18%	243	44,395,832,151	46,008,939,674	103.63	3.93	385	
Nov-2021	162.69	0.15%	250	46,136,808,535	47,705,750,833	103.40	3.92	384	
Dec-2021	163.17	0.30%	253	44,428,702,439	45,850,865,730	103.20	3.97	389	
Jan-2022	163.27	0.06%	264	46,303,372,955	47,721,518,712	103.06	3.92	383	
Feb-2022	161.64	-1.00%	272	48,187,246,457	49,476,212,584	102.68	3.86	378	
Mar-2022	159.97	-1.04%	280	48,758,202,585	49,320,610,808	101.15	3.93	380	
Apr-2022	160.67	0.44%	285	50,947,780,611	50,882,869,681	99.87	4.14	386	
May-2022	159.01	-1.03%	291	53,065,956,573	53,054,131,960	99.98	4.34	386	
Jun-2022	157.45	-0.98%	297	54,707,014,476	53,912,547,204	98.55	4.66	388	
Jul-2022	157.87	0.27%	305	54,305,816,176	52,723,290,518	97.09	5.21	399	
Aug-2022	162.94	3.21%	311	52,868,638,801	51,179,435,509	96.81	5.87	406	
Sep-2022	161.27	-1.03%	316	52,267,272,868	51,923,167,525	99.34	6.34	407	
Oct-2022	159.63	-1.01%	325	54,074,843,112	52,881,044,458	97.79	6.64	407	
Nov-2022	160.61	0.61%	325	53,282,606,013	51,262,793,323	96.21	7.30	410	
Dec-2022			323	52,834,998,700	50,794,605,389	96.14	7.80	410	



CRTx® RNI™ Index Basket History: Select Metrics As of 11/30/2022 Rebalancing

Sponsor % of CRTx® RNI™ Mkt Val For 12/2022

Sub Index % of CRTx® RNI™ Mkt Val For 12/2022



CRTx® RNI™ AGG									
MONTH END CLOSINGS			BEGINNING MONTH BASKET						
Calculation	INDEX VALUE	Month to Date Total Return	# of Constituents	Beg Month UPB	Beg Month Total \$ Market Value	W Avg Adj	WTD Avg		WTD Avg Cpn Margin
Month						Security Mkt Value	Current Coupon	WTD Avg Cpn	
Jan-2020	163.27	1.26%	52	10,810,525,676	11,128,255,837	102.94	4.58	279	
Feb-2020	163.04	-0.14%	54	11,750,620,247	12,144,811,071	103.36	4.32	266	
Mar-2020	123.73	-24.11%	57	13,219,029,124	13,479,658,957	101.97	4.09	246	
Apr-2020	120.70	-2.45%	55	12,793,770,386	9,865,262,294	77.11	3.43	249	
May-2020	134.53	11.46%	51	11,841,276,956	8,721,408,098	73.65	3.01	252	
Jun-2020	151.62	12.71%	46	10,917,819,539	8,842,509,887	80.99	2.69	253	
Jul-2020	153.41	1.17%	45	10,409,152,540	9,432,905,082	90.62	2.78	259	
Aug-2020	154.49	0.71%	46	10,724,189,826	9,890,825,093	92.23	2.99	282	
Sep-2020	157.58	2.00%	47	10,980,427,286	10,237,992,004	93.24	3.19	301	
Oct-2020	158.61	0.66%	48	11,105,630,257	10,559,393,889	95.08	3.25	310	
Nov-2020	161.83	2.03%	47	10,696,965,880	10,283,123,737	96.13	3.47	333	
Dec-2020	166.71	3.02%	46	10,736,337,604	10,542,306,038	98.19	3.53	339	
Jan-2021	168.67	1.18%	50	11,324,184,451	11,415,597,441	100.81	3.50	337	
Feb-2021	169.49	0.48%	47	10,504,416,039	10,712,665,142	101.98	3.61	350	
Mar-2021	167.93	-0.92%	39	9,048,558,462	9,296,466,342	102.74	3.84	377	
Apr-2021	170.69	1.64%	38	8,978,749,172	9,107,517,591	101.43	3.81	376	
May-2021	172.19	0.88%	41	9,588,703,205	9,840,125,130	102.62	3.79	375	
Jun-2021	174.63	1.42%	40	9,373,273,707	9,681,506,748	103.29	3.81	378	
Jul-2021	175.45	0.47%	44	9,738,420,034	10,156,250,987	104.29	3.78	374	
Aug-2021	175.78	0.19%	42	9,659,687,165	10,041,577,171	103.95	3.55	349	
Sep-2021	177.19	0.80%	39	8,836,801,107	9,156,649,664	103.62	3.40	335	
Oct-2021	177.37	0.10%	39	9,275,157,362	9,611,457,885	103.63	3.25	320	
Nov-2021	177.29	-0.05%	44	11,029,258,671	11,264,989,273	102.14	3.12	307	
Dec-2021	178.13	0.47%	44	11,364,521,191	11,523,394,460	101.40	3.14	309	
Jan-2022	176.91	-0.69%	52	13,499,939,498	13,679,507,404	101.33	3.06	301	
Feb-2022	173.35	-2.01%	57	15,396,876,140	15,433,974,963	100.24	3.01	296	
Mar-2022	170.35	-1.73%	62	17,234,456,472	16,913,526,465	98.14	3.12	307	
Apr-2022	170.82	0.28%	67	19,128,995,434	18,549,644,816	96.97	3.38	329	
May-2022	168.30	-1.48%	72	21,068,208,560	20,517,088,834	97.38	3.64	336	
Jun-2022	165.20	-1.84%	80	23,394,497,238	22,433,577,349	95.89	4.00	343	
Jul-2022	165.70	0.30%	85	24,884,587,943	23,480,348,016	94.36	4.49	358	
Aug-2022	171.79	3.68%	89	25,180,986,750	23,907,838,996	94.94	5.17	365	
Sep-2022	168.34	-2.01%	95	26,170,925,042	25,675,201,828	98.11	5.82	365	
Oct-2022	166.79	-0.92%	100	27,235,965,638	26,187,236,662	96.15	6.00	372	
Nov-2022	168.61	1.09%	92	24,523,836,681	23,324,904,484	95.11	6.75	376	
Dec-2022			88	23,106,299,521	22,134,708,648	95.80	7.30	378	

Latest Deal Performance Metrics: November 2022 Monthly Statements - CAS

CRTx® AGG Index Constituent Performance Data (Nov-2022 Monthly Statements)																					
Deal	Loss	Pool	Form	Structure (paid-off)	Early Redemption Option (Yrs)	Maturity (Yrs)	Rem. Early Redemp. Option (Yrs)	Rem. Maturity (Yrs)	Delinquency Pipeline							CPR		Net Credit Event			
									30d	60d	90d	120d	150d	180d+	Total DQ%	MoM % Chg	1mth	Pass Test	Min CE Test	Net Loss Test	Net DQ Test
CAS 2013-C01	FXD1	LLTV	DEBT	<del>M1</del> -M2		10.0		0.9	0.39	0.05	0.04	0.02	0.01	-	0.51	5%	8%	NA	YES	NA	NA
CAS 2014-C01	FXD1	LLTV	DEBT	<del>M1</del> -M2		10.0		1.2	0.36	0.05	0.04	0.03	0.02	-	0.50	-14%	8%	NA	YES	NA	NA
CAS 2014-C02	FXD1	LLTV	DEBT	<del>M1</del> -1M2		10.0		1.5	0.35	0.08	0.02	0.01	0.01	-	0.47	-6%	7%	NA	YES	NA	NA
	FXD1	HLTV	DEBT	<del>2M1</del> -2M2		10.0		1.5	0.52	0.06	0.05	0.04	0.02	-	0.70	-3%	8%	NA	YES	NA	NA
CAS 2014-C03	FXD2	LLTV	DEBT	<del>M1</del> -1M2		10.0		1.7	0.44	0.07	0.04	0.03	0.01	-	0.58	11%	8%	NA	YES	NA	NA
	FXD2	HLTV	DEBT	<del>2M1</del> -2M2		10.0		1.7	0.51	0.13	0.05	0.04	0.05	-	0.78	-1%	8%	NA	YES	NA	NA
CAS 2014-C04	FXD2	LLTV	DEBT	<del>M1</del> -1M2		10.0		2.0	0.46	0.15	0.04	0.04	0.03	-	0.73	-7%	8%	NA	YES	NA	NA
	FXD2	HLTV	DEBT	<del>2M1</del> -2M2		10.0		2.0	0.73	0.19	0.12	0.06	0.11	-	1.21	-8%	10%	NA	YES	NA	NA
CAS 2015-C01	FXD2	LLTV	DEBT	<del>M1</del> -1M2		10.0		2.3	0.94	0.18	0.05	0.07	0.03	-	1.27	-2%	8%	NA	YES	NA	NA
	FXD2	HLTV	DEBT	<del>2M1</del> -2M2		10.0		2.3													
CAS 2015-C02	FXD2	LLTV	DEBT	<del>M1</del> -1M2		10.0		2.5	1.12	0.28	0.12	0.06	0.10	-	1.68	-4%	10%	NA	YES	NA	NA
	FXD2	HLTV	DEBT	<del>2M1</del> -2M2		10.0		2.5													
CAS 2015-C03	FXD2	LLTV	DEBT	<del>M1</del> -1M2		10.0		2.7	1.10	0.21	0.10	0.07	0.07	-	1.56	1%	10%	NA	YES	NA	NA
	FXD2	HLTV	DEBT	<del>2M1</del> -2M2		10.0		2.7													
CAS 2015-C04	ACT	LLTV	DEBT	<del>M1</del> -1M2	10.0	12.5	2.9	5.4	1.29	0.36	0.18	0.13	0.06	1.06	3.07	-4%	9%	NA	YES	NA	YES
	ACT	HLTV	DEBT	<del>2M1</del> -2M2	10.0	12.5	2.9	5.4	1.84	0.70	0.27	0.19	0.23	1.48	4.71	-3%	10%	NA	YES	NA	YES
CAS 2016-C01	ACT	LLTV	DEBT	<del>M1</del> -1M2-1B	10.0	12.5	3.3	5.8	1.10	0.30	0.11	0.10	0.12	0.92	2.66	-8%	9%	NA	YES	NA	YES
	ACT	HLTV	DEBT	<del>2M1</del> -2M2	10.0	12.5	3.3	5.8	1.63	0.45	0.19	0.13	0.12	1.05	3.57	-8%	10%	NA	YES	NA	YES
CAS 2016-C02	ACT	LLTV	DEBT	<del>M1</del> -1M2-1B	10.0	12.5	3.3	5.8	0.75	0.21	0.06	0.06	0.07	0.56	1.71	-12%	9%	NA	YES	NA	YES
CAS 2016-C03	ACT	LLTV	DEBT	<del>M1</del> -1M2-1B	10.0	12.5	3.4	5.9	0.88	0.28	0.10	0.07	0.06	0.81	2.20	-3%	9%	NA	YES	NA	YES
	ACT	HLTV	DEBT	<del>2M1</del> -2M2-2B	10.0	12.5	3.4	5.9	1.29	0.40	0.14	0.14	0.09	1.08	3.13	-2%	11%	NA	YES	NA	YES
CAS 2016-C04	ACT	LLTV	DEBT	<del>M1</del> -1M2-1B	10.0	12.5	3.7	6.2	0.97	0.32	0.12	0.08	0.08	0.84	2.40	-6%	9%	NA	YES	NA	YES
CAS 2016-C05	ACT	HLTV	DEBT	<del>2M1</del> -2M2-2B	10.0	12.5	3.7	6.2	1.50	0.41	0.20	0.13	0.13	1.25	3.62	-6%	11%	NA	YES	NA	YES
CAS 2016-C06	ACT	LLTV	DEBT	<del>M1</del> -1M2-1B	10.0	12.5	3.9	6.4	1.04	0.28	0.11	0.10	0.07	0.77	2.38	-6%	10%	NA	YES	NA	YES
CAS 2016-C07	ACT	HLTV	DEBT	<del>2M1</del> -2M2-2B	10.0	12.5	4.0	6.5	1.49	0.42	0.23	0.16	0.14	1.29	3.73	-4%	10%	NA	YES	NA	YES
CAS 2017-C01	ACT	LLTV	DEBT	<del>M1</del> -1M2-1B1	10.0	12.5	4.2	6.7	0.92	0.31	0.12	0.08	0.07	0.74	2.23	-4%	9%	NA	YES	NA	YES
CAS 2017-C02	ACT	HLTV	DEBT	<del>2M1</del> -2M2-2B1	10.0	12.5	4.3	6.8	1.25	0.37	0.14	0.11	0.11	0.95	2.94	-3%	11%	NA	YES	NA	YES
CAS 2017-C03	ACT	LLTV	DEBT	<del>M1</del> -1M2-1B1	10.0	12.5	4.4	6.9	0.76	0.22	0.09	0.07	0.04	0.51	1.69	-3%	8%	NA	YES	NA	YES
CAS 2017-C04	ACT	HLTV	DEBT	<del>2M1</del> -2M2-2B1	10.0	12.5	4.5	7.0	1.15	0.36	0.19	0.13	0.11	0.97	2.92	1%	9%	NA	YES	NA	YES
CAS 2017-C05	ACT	LLTV	DEBT	<del>M1</del> -1M2-1B1	10.0	12.5	4.7	7.2	0.75	0.20	0.10	0.11	0.04	0.62	1.82	-2%	9%	NA	YES	NA	YES
CAS 2017-C06	ACT	LLTV	DEBT	<del>M1</del> -1M2-1B1	10.0	12.5	4.8	7.3	0.84	0.31	0.14	0.12	0.07	0.92	2.39	-8%	8%	NA	YES	NA	YES
	ACT	HLTV	DEBT	<del>2M1</del> -2M2-2B1	10.0	12.5	4.8	7.3	1.63	0.45	0.34	0.19	0.19	1.53	4.33	-3%	10%	NA	YES	NA	YES
CAS 2017-C07	ACT	LLTV	DEBT	<del>M1</del> -1M2-1B1	10.0	12.5	5.0	7.5	1.14	0.39	0.17	0.14	0.11	1.04	2.98	-3%	11%	NA	YES	NA	YES
	ACT	HLTV	DEBT	<del>2M1</del> -2M2-2B1	10.0	12.5	5.0	7.5	1.93	0.52	0.30	0.20	0.25	1.84	5.04	-4%	11%	NA	YES	NA	YES
CAS 2018-C01	ACT	LLTV	DEBT	<del>M1</del> -1M2-1B1	10.0	12.4	5.2	7.7	1.26	0.28	0.16	0.15	0.10	0.97	2.93	-1%	10%	NA	YES	NA	YES
CAS 2018-C02	ACT	HLTV	DEBT	<del>2M1</del> -2M2-2B1	10.0	12.5	5.3	7.8	1.70	0.47	0.20	0.19	0.15	1.45	4.15	-3%	12%	NA	YES	NA	YES
CAS 2018-C03	ACT	LLTV	DEBT	<del>M1</del> -1M2-1B1	10.0	12.5	5.4	7.9	1.12	0.34	0.16	0.13	0.12	1.05	2.92	-5%	10%	NA	YES	NA	YES
CAS 2018-C04	ACT	HLTV	DEBT	<del>2M1</del> -2M2-2B1	10.0	12.5	5.6	8.1	1.76	0.71	0.34	0.21	0.18	1.67	4.87	-2%	11%	NA	YES	NA	YES
CAS 2018-C05	ACT	LLTV	DEBT	<del>M1</del> -1M2-1B1	10.0	12.5	5.7	8.2	1.22	0.30	0.20	0.14	0.10	1.18	3.14	-2%	10%	NA	YES	NA	YES
CAS 2018-C06	ACT	LLTV	DEBT	<del>M1</del> -1M2-1B1	10.0	12.5	5.8	8.3	1.47	0.36	0.23	0.20	0.13	1.72	4.11	0%	11%	NA	YES	NA	YES
	ACT	HLTV	DEBT	<del>2M1</del> -2M2-2B1	10.0	12.5	5.8	8.3	1.86	0.69	0.31	0.19	0.11	1.83	4.99	1%	11%	NA	YES	NA	YES
CAS 2018-R07	ACT	LLTV	REMIC	<del>M1</del> -1M2-1B1	10.0	12.5	5.9	8.4	1.84	0.55	0.25	0.17	0.16	1.67	4.65	-1%	11%	NA	YES	NA	YES
CAS 2019-R01	ACT	HLTV	REMIC	<del>2M1</del> -2M2-2B1	10.0	12.5	6.2	8.7	2.21	0.70	0.33	0.31	0.20	2.17	5.92	0%	12%	NA	YES	NA	NO
CAS 2019-R02	ACT	LLTV	REMIC	<del>M1</del> -1M2-1B1	10.0	12.5	6.3	8.8	1.44	0.62	0.24	0.21	0.14	1.66	4.31	-2%	12%	NA	YES	NA	YES
CAS 2019-R03	ACT	LLTV	REMIC	<del>M1</del> -1M2-1B1	9.9	12.4	6.3	8.8	1.64	0.51	0.32	0.23	0.16	1.78	4.64	-1%	11%	NA	YES	NA	YES
CAS 2019-R04	ACT	HLTV	REMIC	<del>2M1</del> -2M2-2B1	7.0	20.0	3.6	16.6	2.28	0.71	0.36	0.26	0.19	2.22	6.03	-2%	13%	NA	YES	NA	NO
CAS 2019-R05	ACT	LLTV	REMIC	<del>M1</del> -1M2-1B1	7.0	20.0	3.7	16.7	1.78	0.55	0.35	0.23	0.19	1.89	5.00	0%	11%	NA	YES	NA	NO
CAS 2019-R06	ACT	HLTV	REMIC	<del>2M1</del> -2M2-2B1	7.0	20.0	3.8	16.8	1.80	0.53	0.32	0.27	0.20	1.76	4.88	-2%	11%	NA	YES	NA	NO
CAS 2019-R07	ACT	LLTV	REMIC	<del>M1</del> -1M2-1B1	7.0	20.0	3.9	16.9	1.31	0.35	0.27	0.12	0.11	1.15	3.32	-1%	11%	NA	YES	NA	YES
CAS 2020-R01	ACT	LLTV	REMIC	<del>M1</del> -1M2-1B1	7.0	20.0	4.2	17.2	0.92	0.18	0.13	0.13	0.08	0.89	2.32	-7%	9%	NA	YES	NA	YES
CAS 2020-R02	ACT	HLTV	REMIC	<del>2M1</del> -2M2-2B1	7.0	20.0	4.2	17.2	1.25	0.41	0.24	0.23	0.15	1.23	3.51	-3%	10%	NA	YES	NA	YES
CAS 2021-R01	ACT	LLTV	REMIC	1M1-1M2-1B1-1B2	5.0	20.0	3.9	18.9	0.32	0.07	0.03	0.02	0.02	0.06	0.52	0%	5%	NA	YES	NA	YES
CAS 2021-R02	ACT	HLTV	REMIC	2M1-2M2-2B1-2B2	5.0	20.0	4.0	19.0	0.56	0.13	0.07	0.06	0.05	0.17	1.04	12%	6%	NA	YES	NA	YES
CAS 2021-R03	ACT	LLTV	REMIC	1M1-1M2-1B1-1B2	5.0	20.0	4.1	19.1	0.34	0.04	0.04	0.02	0.02	0.05	0.51	-4%	5%	NA	YES	NA	YES
CAS 2022-R01	ACT	LLTV	REMIC	1M1-1M2-1B1-1B2	4.9	19.9	4.1	19.1	0.36	0.07	0.04	0.02	0.02	0.07	0.59	5%	5%	NA	YES	NA	YES
CAS 2022-R02	ACT	HLTV	REMIC	2M1-2M2-2B1-2B2	5.0	20.0	4.2	19.2	0.58	0.13	0.06	0.06	0.05	0.15	1.03	16%	5%	NA	YES	NA	YES
CAS 2022-R03	ACT	LLTV	REMIC	1M1-1M2-1B1-1B2	5.0	20.0	4.3	19.3	0.38	0.07	0.03	0.02	0.02	0.04	0.56	10%	5%	NA	YES	NA	YES
CAS 2022-R04	ACT	LLTV	REMIC	1M1-1M2-1B1-1B2	5.0	20.0	4.3	19.3	0.38	0.07	0.04	0.02	0.03	0.03	0.57	12%	5%	NA	YES	NA	YES
CAS 2022-R05	ACT	HLTV	REMIC	2M1-2M2-2B1-2B2	5.0	20.0	4.4	19.4	0.56	0.12	0.08	0.06	0.03	0.05	0.91	11%	4%	NA	YES	NA	YES

Latest Deal Performance Metrics: November 2022 Monthly Statements – CAS (continued)

CRTx® AGG Index Constituent Performance Data (Nov-2022 Monthly Statements)																						
Deal	Loss	Pool	Form	Structure (paid-off)	Early Redemption Option (Yrs)	Maturity (Yrs)	Rem. Early Redemp. Option (Yrs)	Rem. Maturity (Yrs)	Delinquency Pipeline								CPR		Net Credit Event			
									30d	60d	90d	120d	150d	180d+	Total DQ%	MoM % Chg	1mth	Pass Test	Pass Test	Pass Test	Pass Test	
CAS 2022-R06	ACT	LLTV	REMIC	1M1-1M2-1B1-1B2	5.0	20.0	4.5	19.5	0.45	0.08	0.03	0.02	0.01	0.01	0.61	14%	5%	NA	YES	NA	YES	
CAS 2022-R07	ACT	LLTV	REMIC	1M1-1M2-1B1-1B2	5.0	20.0	4.6	19.6	0.50	0.08	0.04	0.04	0.02	-	0.68	23%	5%	NA	YES	NA	YES	
CAS 2022-R08	ACT	LLTV	REMIC	1M1-1M2-1B1	5.0	20.0	4.7	19.7	0.36	0.08	0.05	0.01	0.00	-	0.50	11%	5%	NA	YES	NA	YES	
CAS 2022-R09	ACT	HLTV	REMIC	2M1-2M2-2B1	5.0	20.0	4.8	19.8	0.40	0.07	-	-	-	-	0.46	59%	3%	NA	YES	NA	YES	

Latest Deal Performance Metrics: November 2022 Monthly Statements - STACR

CRTx® AGG Index Constituent Performance Data (Nov-2022 Monthly Statements)																					
Deal	Loss	Pool	Form	Structure (paid-off)	Early Redemption Option (Yrs)	Maturity (Yrs)	Rem. Early Redemp. Option (Yrs)	Rem. Maturity (Yrs)	Delinquency Pipeline								CPR	Net Credit Event Test	Min CE Test	Cum Net Loss Test	DQ Test
									30d	60d	90d	120d	150d	180d+	Total DCQ%	MoM % Chg					
STACR 2013-DN1	FXD1	LLTV	DEBT	M1-M2		10.0		0.7	0.40	0.05	0.04	0.03	0.01	-	0.53	2%	7%	YES	YES	NA	NA
STACR 2013-DN2	FXD1	LLTV	DEBT	M1-M2		10.0		1.0	0.42	0.07	0.01	0.02	0.02	-	0.54	20%	6%	YES	YES	NA	NA
STACR 2014-DN1	FXD1	LLTV	DEBT	M1-M2-M3		10.0		1.3	0.45	0.09	0.02	0.01	0.01	-	0.58	2%	7%	YES	YES	NA	NA
STACR 2014-DN2	FXD1	LLTV	DEBT	M1-M2-M3		10.1		1.4	0.62	0.10	0.03	0.02	0.03	-	0.80	13%	6%	YES	YES	NA	NA
STACR 2014-DN3	FXD2	LLTV	DEBT	M1-M2-M3		10.0		1.8	1.00	0.23	0.13	0.13	0.07	0.21	1.77	-3%	7%	YES	YES	NA	NA
STACR 2014-DN4	FXD2	LLTV	DEBT	M1-M2-M3		10.0		1.9	1.10	0.34	0.11	0.12	0.11	0.20	1.98	8%	7%	YES	YES	NA	NA
STACR 2014-HQ1	FXD2	HLTV	DEBT	M1-M2-M3		10.0		1.8													
STACR 2014-HQ2	FXD2	HLTV	DEBT	M1-M2-M3		10.0		1.8	0.76	0.16	0.05	0.07	0.04	0.14	1.22	9%	7%	YES	YES	NA	NA
STACR 2014-HQ3	FXD2	HLTV	DEBT	M1-M2-M3		10.0		1.9													
STACR 2015-DN1	FXD2	LLTV	DEBT	M1-M2-M3-B		10.0		2.2	1.24	0.23	0.23	0.06	0.04	0.29	2.09	7%	8%	YES	YES	NA	NA
STACR 2015-HQ1	FXD2	HLTV	DEBT	M1-M2-M3-B		10.0		2.3													
STACR 2015-HQ2	FXD2	HLTV	DEBT	M1-M2-M3-B		10.0		2.5	0.70	0.14	0.06	0.06	0.04	0.14	1.14	10%	7%	YES	YES	NA	NA
STACR 2015-DNA1	ACT	LLTV	DEBT	M1-M2-M3-B	10.0	12.5	2.4	4.9	0.45	0.07	0.04	0.07	0.22	0.85	2%	6%	NA	YES	YES	YES	
STACR 2015-DNA2	ACT	LLTV	DEBT	M1-M2-M3-B	10.0	12.5	2.6	5.1	1.26	0.34	0.19	0.21	0.77	2.77	13%	9%	NA	YES	YES	YES	
STACR 2015-DNA3	ACT	LLTV	DEBT	M1-M2-M3-B	10.0	12.5	2.9	5.4	0.96	0.21	0.15	0.13	0.66	2.11	0%	6%	NA	YES	YES	YES	
STACR 2015-HQA1	ACT	HLTV	DEBT	M1-M2-M3-B	10.0	12.5	2.8	5.3	1.76	0.48	0.16	0.22	1.22	3.84	-1%	8%	NA	YES	YES	YES	
STACR 2015-HQA2	ACT	HLTV	DEBT	M1-M2-M3-B	10.0	12.5	3.0	5.5	1.42	0.46	0.18	0.33	1.11	3.50	0%	8%	NA	YES	YES	YES	
STACR 2016-DNA1	ACT	LLTV	DEBT	M1-M2-M3-B	10.0	12.5	3.2	5.7	0.83	0.23	0.08	0.12	0.59	1.85	3%	8%	NA	YES	YES	YES	
STACR 2016-DNA2	ACT	LLTV	DEBT	M1-M2-M3-B	10.0	12.5	3.4	5.9	1.00	0.26	0.12	0.18	0.85	2.41	-2%	7%	NA	YES	YES	YES	
STACR 2016-DNA3	ACT	LLTV	DEBT	M1-M2-M3-B	10.0	12.5	3.6	6.1	1.18	0.28	0.15	0.11	0.86	2.58	2%	7%	NA	YES	YES	YES	
STACR 2016-DNA4	ACT	LLTV	DEBT	M1-M2-M3-B	10.0	12.5	3.8	6.3	1.24	0.22	0.14	0.19	0.78	2.57	2%	8%	NA	YES	YES	YES	
STACR 2016-HQA1	ACT	HLTV	DEBT	M1-M2-M3-B	10.0	12.5	3.3	5.8	1.31	0.34	0.17	0.17	1.11	3.10	0%	8%	NA	YES	YES	YES	
STACR 2016-HQA2	ACT	HLTV	DEBT	M1-M2-M3-B	10.0	12.5	3.5	6.0	1.62	0.43	0.17	0.30	1.03	3.55	6%	8%	NA	YES	YES	YES	
STACR 2016-HQA3	ACT	HLTV	DEBT	M1-M2-M3-B	10.0	12.5	3.8	6.3	1.42	0.40	0.17	0.37	1.19	3.55	1%	8%	NA	YES	YES	YES	
STACR 2016-HQA4	ACT	HLTV	DEBT	M1-M2-M3-B	10.0	12.5	3.9	6.4	1.79	0.42	0.25	0.33	1.43	4.22	4%	9%	NA	YES	YES	YES	
STACR 2017-DNA1	ACT	LLTV	DEBT	M1-M2-B1-B2	10.0	12.5	4.2	6.7	1.04	0.27	0.15	0.20	0.69	2.35	3%	7%	NA	YES	YES	YES	
STACR 2017-DNA2	ACT	LLTV	DEBT	M1-M2-B1-B2	10.0	12.5	4.4	6.9	0.96	0.22	0.10	0.13	0.74	2.15	2%	7%	NA	YES	YES	YES	
STACR 2017-DNA3	ACT	LLTV	DEBT	M1-M2-B1	10.0	12.5	4.8	7.3	0.92	0.23	0.12	0.14	0.66	2.07	2%	7%	NA	YES	YES	YES	
STACR 2017-HQA1	ACT	HLTV	DEBT	M1-M2-B1-B2	10.5	12.5	4.8	6.8	1.50	0.42	0.17	0.24	1.06	3.39	6%	8%	NA	YES	YES	YES	
STACR 2017-HQA2	ACT	HLTV	DEBT	M1-M2-B1	10.0	12.5	4.6	7.1	1.30	0.35	0.20	0.23	1.07	3.15	-2%	7%	NA	YES	YES	YES	
STACR 2017-HQA3	ACT	HLTV	DEBT	M1-M2-B1	10.0	12.5	4.9	7.4	1.29	0.42	0.23	0.14	0.08	1.43	3.60	-4%	9%	NA	YES	YES	YES
STACR 2018-DNA1	ACT	LLTV	DEBT	M1-M2-B1	10.0	12.5	5.2	7.7	1.37	0.29	0.17	0.23	1.14	3.20	2%	8%	NA	YES	YES	YES	
STACR 2018-HQA1	ACT	HLTV	DEBT	M1-M2-B1	10.0	12.5	5.3	7.8	1.75	0.59	0.27	0.17	0.24	1.56	4.58	0%	10%	NA	YES	YES	YES
STACR 2018-DNA2	ACT	LLTV	TRUST	M1-M2-B1	10.0	12.5	5.6	8.1	1.15	0.27	0.13	0.18	0.85	2.58	3%	9%	NA	YES	YES	YES	
STACR 2018-DNA3	ACT	LLTV	TRUST	M1-M2-B1-B2	10.0	30.0	5.8	25.9	1.23	0.34	0.11	0.18	0.10	1.10	3.06	1%	8%	NA	YES	YES	YES
STACR 2018-HQA2	ACT	HLTV	TRUST	M1-M2-B1-B2	9.9	30.0	5.8	25.9	1.59	0.57	0.26	0.16	0.20	1.47	4.26	0%	9%	NA	YES	YES	YES
STACR 2019-DNA1	ACT	LLTV	TRUST	M1-M2-B1-B2	10.0	30.0	6.2	26.2	1.55	0.48	0.18	0.10	0.22	1.29	3.82	6%	9%	NA	YES	YES	YES
STACR 2019-DNA2	ACT	LLTV	TRUST	M1-M2-B1-B2	10.0	30.0	6.3	26.3	1.57	0.38	0.23	0.22	1.41	3.81	3%	10%	NA	YES	YES	YES	
STACR 2019-DNA3	ACT	LLTV	TRUST	M1-M2-B1-B2	10.0	30.0	6.7	26.7	1.47	0.34	0.19	0.34	1.05	3.39	4%	9%	NA	YES	YES	YES	
STACR 2019-HQA1	ACT	HLTV	TRUST	M1-M2-B1-B2	9.9	30.0	6.2	26.3	2.15	0.48	0.31	0.21	0.22	1.92	5.29	1%	11%	NA	YES	YES	YES
STACR 2019-HQA2	ACT	HLTV	TRUST	M1-M2-B1-B2	10.0	30.0	6.4	26.4	2.37	0.63	0.32	0.54	1.94	5.80	5%	11%	NA	YES	YES	YES	
STACR 2019-HQA3	ACT	HLTV	TRUST	M1-M2-B1-B2	10.0	30.0	6.8	26.9	2.13	0.63	0.36	0.39	1.71	5.22	3%	8%	NA	YES	YES	YES	
STACR 2019-DNA4	ACT	LLTV	REMIC	M1-M2-B1-B2	10.0	30.9	6.9	27.8	1.45	0.30	0.13	0.27	0.97	3.12	6%	9%	NA	YES	YES	NO	
STACR 2019-HQA4	ACT	HLTV	REMIC	M1-M2-B1-B2	10.0	30.0	7.0	27.0	2.13	0.57	0.45	0.39	1.72	5.26	3%	9%	NA	YES	YES	NO	
STACR 2020-DNA1	ACT	LLTV	REMIC	M1-M2-B1-B2	10.0	30.0	7.2	27.2	1.12	0.34	0.13	0.12	0.13	0.79	2.64	4%	8%	NA	YES	YES	NO
STACR 2020-DNA2	ACT	LLTV	REMIC	M1-M2-B1-B2	10.0	30.0	7.2	27.3	0.77	0.25	0.11	0.18	0.55	1.86	-1%	8%	NA	YES	YES	YES	
STACR 2020-DNA3	ACT	LLTV	REMIC	M1-M2-B1-B2	10.0	30.0	7.6	27.6	0.59	0.14	0.06	0.10	0.34	1.23	4%	7%	NA	YES	YES	YES	
STACR 2020-DNA4	ACT	LLTV	REMIC	M1-M2-B1-B2	10.0	30.0	7.8	27.8	0.67	0.15	0.08	0.09	0.31	1.30	9%	7%	NA	YES	YES	YES	
STACR 2020-DNA5	ACT	LLTV	REMIC	M1-M2-B1-B2	10.0	30.0	7.9	27.9	0.66	0.09	0.05	0.05	0.21	1.06	38%	6%	NA	YES	YES	YES	
STACR 2020-DNA6	ACT	LLTV	REMIC	M1-M2-B1-B2	10.0	30.0	8.1	28.1	0.60	0.07	0.03	0.02	0.02	0.15	0.88	32%	6%	NA	YES	YES	YES
STACR 2020-HQA1	ACT	HLTV	REMIC	M1-M2-B1-B2	10.0	30.0	7.2	27.2	1.62	0.42	0.22	0.17	0.17	1.28	3.88	3%	9%	NA	YES	YES	NO
STACR 2020-HQA2	ACT	HLTV	REMIC	M1-M2-B1-B2	10.0	30.0	7.3	27.3	1.24	0.34	0.18	0.22	0.92	2.90	5%	8%	NA	YES	YES	NO	
STACR 2020-HQA3	ACT	HLTV	REMIC	M1-M2-B1-B2	10.0	30.0	7.7	27.7	0.82	0.16	0.11	0.12	0.42	1.63	2%	8%	NA	YES	YES	YES	
STACR 2020-HQA4	ACT	HLTV	REMIC	M1-M2-B1-B2	10.0	30.0	7.8	27.9	0.76	0.18	0.07	0.05	0.05	0.37	1.48	5%	8%	NA	YES	YES	YES
STACR 2020-HQA5	ACT	HLTV	REMIC	M1-M2-B1-B2	10.0	30.0	8.0	28.0	0.77	0.14	0.08	0.10	0.28	1.37	17%	6%	NA	YES	YES	YES	
STACR 2021-DNA1	ACT	LLTV	REMIC	M1-M2-B1-B2	10.0	30.0	8.2	28.2	0.50	0.06	0.03	0.04	0.12	0.75	25%	5%	NA	YES	YES	YES	
STACR 2021-DNA2	ACT	LLTV	REMIC	M1-M2-B1-B2	12.5		10.8		0.54	0.05	0.03	0.04	0.11	0.77	33%	5%	NA	YES	YES	YES	
STACR 2021-DNA3	ACT	LLTV	REMIC	M1-M2-B1-B2	12.5		10.9		0.44	0.05	0.03	0.04	0.10	0.66	38%	5%	NA	YES	YES	YES	
STACR 2021-DNA5	ACT	LLTV	REMIC	M1-M2-B1-B2	12.5		11.2		0.42	0.05	0.02	0.04	0.08	0.61	24%	5%	NA	YES	YES	YES	



Latest Deal Performance Metrics: November 2022 Monthly Statements – STACR (continued)

CRTx® AGG Index Constituent Performance Data (Nov-2022 Monthly Statements)																					
Deal	Loss	Pool	Form	Structure (paid-off)	Early Redemption Option (Yrs)	Maturity (Yrs)	Rem. Early Redemp. Option (Yrs)	Rem. Maturity (Yrs)	Delinquency Pipeline								CPR	Net Credit Event Test	Min CE Test	Cum Net Loss Test	DQ Test
									30d	60d	90d	120d	150d	180d+	Total DO%	MoM % Chg					
STACR 2021-DNA6	ACT	LLTV	REMIC	M1-M2-B1-B2	5.0	20.0	3.9	18.9	0.42	0.06	0.03	0.02	0.02	0.07	0.62	22%	4%	NA	NO	YES	YES
STACR 2021-DNA7	ACT	LLTV	REMIC	M1-M2-B1-B2	5.0	20.0	4.0	19.0	0.50	0.07	0.04	0.03	0.02	0.11	0.77	26%	4%	NA	YES	YES	YES
STACR 2021-HQA1	ACT	HLTV	REMIC	M1-M2-B1-B2		12.5		10.8	0.69	0.10	0.06	0.06	0.04	0.25	1.19	15%	6%	NA	YES	YES	YES
STACR 2021-HQA2	ACT	HLTV	REMIC	M1-M2-B1-B2		12.5		11.1	0.57	0.10	0.06		0.09	0.18	1.00	19%	5%	NA	YES	YES	YES
STACR 2021-HQA3	ACT	HLTV	REMIC	M1-M2-B1-B2	5.0	20.0	3.8	18.8	0.58	0.12	0.06		0.10	0.19	1.05	21%	4%	NA	YES	YES	YES
STACR 2021-HQA4	ACT	HLTV	REMIC	M1-M2-B1-B2	5.0	20.1	4.1	19.1	0.55	0.11	0.08		0.10	0.19	1.03	18%	4%	NA	YES	YES	YES
STACR 2022-DNA1	ACT	LLTV	REMIC	M1A-M1B-M2-B1-B2	5.0	20.0	4.2	19.2	0.52	0.09	0.08		0.06	0.10	0.85	15%	4%	NA	YES	YES	YES
STACR 2022-DNA2	ACT	LLTV	REMIC	M1A-M1B-M2-B1-B2	5.0	20.1	4.3	19.3	0.69	0.10	0.07		0.07	0.10	1.03	21%	4%	NA	YES	YES	YES
STACR 2022-DNA3	ACT	LLTV	REMIC	M1A-M1B-M2-B1-B2	5.0	20.0	4.4	19.4	0.65	0.10	0.07		0.09	0.05	0.96	37%	4%	NA	YES	YES	YES
STACR 2022-DNA4	ACT	LLTV	REMIC	M1A-M1B-M2-B1-B2	5.0	20.0	4.5	19.5	0.57	0.11	0.05		0.08	0.04	0.85	31%	4%	NA	YES	YES	YES
STACR 2022-DNA5	ACT	LLTV	REMIC	M1A-M1B-M2-B1-B2	5.0	20.0	4.6	19.6	0.62	0.12	0.07		0.07	0.02	0.90	38%	4%	NA	YES	YES	YES
STACR 2022-DNA6	ACT	LLTV	REMIC	M1A-M1B-M2	5.0	20.0	4.8	19.8	0.52	0.06	0.04		0.00	-	0.62	48%	4%	NA	YES	YES	YES
STACR 2022-DNA7	ACT	LLTV	REMIC	M1A-M1B-M2	5.0	20.0	4.8	19.8	0.63	0.09	-		0.00	-	0.72	57%	4%	NA	YES	YES	YES
STACR 2022-HQA1	ACT	HLTV	REMIC	M1A-M1B-M2-B1-B2	5.0	20.0	4.3	19.3	0.64	0.15	0.09		0.12	0.09	1.09	17%	3%	NA	YES	YES	YES
STACR 2022-HQA2	ACT	HLTV	REMIC	M1A-M1B-M2	5.0	20.0	4.7	19.7	0.58	0.12	0.08		0.09	-	0.87	26%	3%	NA	YES	YES	YES
STACR 2022-HQA3	ACT	HLTV	REMIC	M1A-M1B-M2	5.0	20.0	4.8	19.8	0.50	0.12	0.05		0.02	-	0.69	41%	3%	NA	NO	YES	YES

For information on CRTx® Rules and Guidelines, commercial licensing, data usage, and redistribution of the CRTx® suite of indexes, please contact:

**Mark Fontanilla**

Mark Fontanilla & Co., LLC

255 W MLK Blvd

Suite 2402

Charlotte, NC 28202

C: (201) 213-7168

O: (704) 405-0575

[mark@markfontanilla.com](mailto:mark@markfontanilla.com)

Security pricing and information powered by Refinitiv, an LSEG (London Stock Exchange Group) business.

Copyright © 2017-2022, Mark Fontanilla & Co., LLC (“MFCo”). All rights reserved. The information presented herein is protected by United States intellectual property and copyright laws and may not be reproduced, rewritten, distributed, published, broadcast, disseminated, transmitted, displayed, either directly or indirectly, in any medium or incorporated in other electronic or printed works without the prior consent of MFCo. CRTx® is a registered trademark, and RNI™ is a trademark, of MFCo. MFCo and any third-party licensors of its commercial indexes make no representation or warranty, express or implied, as to the capability of any index to accurately represent the security asset class or financial market sector that any respective MFCo index intends to represent. MFCo and any third-party licensors of its commercial indexes shall not be liable for any errors, omissions, or interruptions in the calculation or presentation of any MFCo index and its related data. Past performance of an index is neither an indication, nor a guarantee, of future results for either the index, the future results of the securities, or markets the index represents. The material herein does not constitute an offer for the sale of securities or services. Except for MFCo Custom Index Design Services, all information provided by MFCo is for general public dissemination and not specifically tailored for the purposes of any single individual, group, or legal entity. MFCo receives fees associated with the licensing of its indexes to third parties, development and administration of custom indexes, and the provision of index data products and services. An index itself cannot be invested in. Investment exposure to the securities or financial markets that an index represents may be made available via third-party financial instrument or investment vehicle that references the respective index. MFCo does not sell, endorse, promote, or directly manage any financial instrument or investment vehicle that seeks to offer an economic return based on the performance of any of MFCo’s indexes. MFCo is not an investment advisor and does not provide legal or tax advice. For more information on any of MFCo’s index products or other professional services, please visit [www.markfontanilla.com](http://www.markfontanilla.com).