

Mortgage Credit Performance Amidst Higher Inflation

Is Higher Inflation Contributing to
Recent CRT Spread Widening?

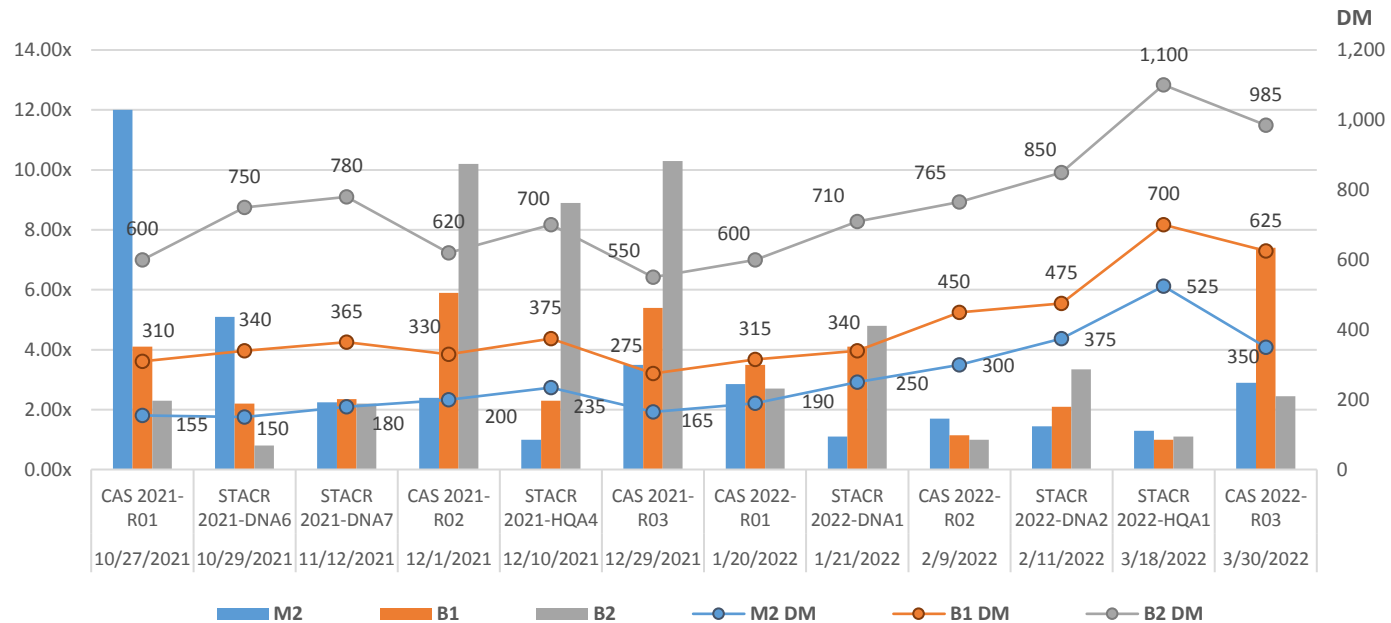
Investment Opportunity - Credit Risk Transfer Securities

A

Market “Technicals” are creating an attractive opportunity to deploy capital.

- Increased market volatility, wider spreads and rising short-term rates, coupled with strong housing fundamentals are creating an attractive opportunity for investors looking to gain mortgage credit exposure through **Floating-Rate Credit Risk Transfer (“CRT”)** debt securities issued by the U.S. Housing Agencies, Fannie Mae and Freddie Mac. (Please reference accompanying CRT Overview for more details).

Figure 1: Discount Margins increased as market jitters resulted in lower Subscription Levels (Left Axis).



B

Contributing Factors: Recent Spread Widening Explained

- Uncertainties surrounding the ongoing war in Ukraine.
- Pent-up supply of deal issuances. Potential influx of product as Fannie Mae carries on with their credit transfer program following a ~24-month hiatus.
- Perception that persisting inflation may result in longer-term negative implications related to credit performance of marginal borrowers whose residual incomes are being squeezed.
- Liquidity Premium for nascent market sector.

C

Mitigating Factors: Fundamentals Remain Strong

- Strength of the housing and U.S. labor market.
- Continued supply-demand imbalances of available housing stock.
- Strict underwriting guidelines.
- Minimal risk layering.

➤ **The effects of inflation and rising oil prices on mortgage credit performance vary across loan characteristics.**

Credit Risk Transfer (CRT)

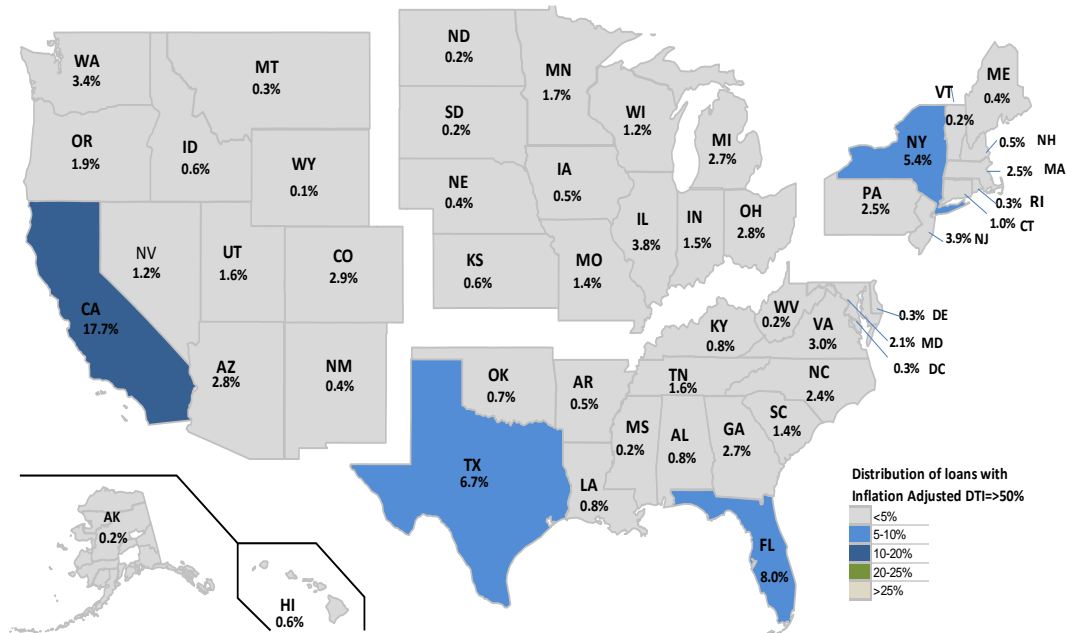
- A** The underlying fixed-rate Agency loans are well-diversified, exhibit limited risk layering and offer compensating factors that minimize credit risk.
- B** The recent inflation shock and surging oil prices are secondary effects impacting residual incomes of most households since 100% of the underlying mortgages are fixed-rate and meet underwriting standards of the Housing Agencies that require Full Documentation.
- C** The impact on lower income borrowers is disproportionately greater, nonetheless.

▪ **We estimate that roughly 10%¹ of the borrowers in recently originated pools may fall in this category.**

- Inflation/gas price increases are being accounted for as an immediate decrease in borrower’s disposable income and treated as additional debt due immediately, thus negatively affecting the Debt-to-Income (“DTI”) ratios.
- We assume that those with Inflation Adjusted DTIs of 50% or higher are potentially at most risk as they suffer inflation inequality.

Please refer to Appendix A for more details.

Figure 2: Distribution of loans with Inflation Adjusted DTIs =>50%.



¹ Estimated Inflation Adjusted DTI Methodology/Assumptions:

- All estimates are based on the population of loans in STACR deals originated since 2018.
- Based on historical norms, housing expenses are assessed at 27% of our typical borrower’s income.
- Gas prices are estimated to have increased from \$2.6 to \$4.75 (applied to ~15K miles annually, at 24 miles/gallon).
- Cumulative inflation of ~11% over past two years (applied to ~\$23K most spend annually on food, utilities, healthcare, etc.)
- Wages are estimated to have increased 5.9% (YoY change in private sector nominal average hourly earnings as of February 2022).

Post-Crisis Underwriting Guidelines and Standards are Extremely Tight

Mitigating Factors

A It's important to note that higher DTI doesn't in and of itself mean an imminent default, however, may potentially result in added stress regarding the management outstanding debt obligations.

- As illustrated in Figure 3, historical defaults remained muted in loans with mitigating factors, including high FICO and lower LTV, even during the Great Financial Crisis.
- Based on our estimates, only 0.39% of the recent population has Inflation Adjusted DTIs of greater than 50% and low FICO scored of <=700.**
 - Also, wealth effect from the recent Home Price Appreciation is expected to avoid potential defaults.** Home Price Index (HPI) Adjusted LTVs average 60% for loans in this group, further supporting low default probability.

Figure 3: Actual Cumulative Default Rate (%) for Full Documentation Loans Originated in 2001-2002.

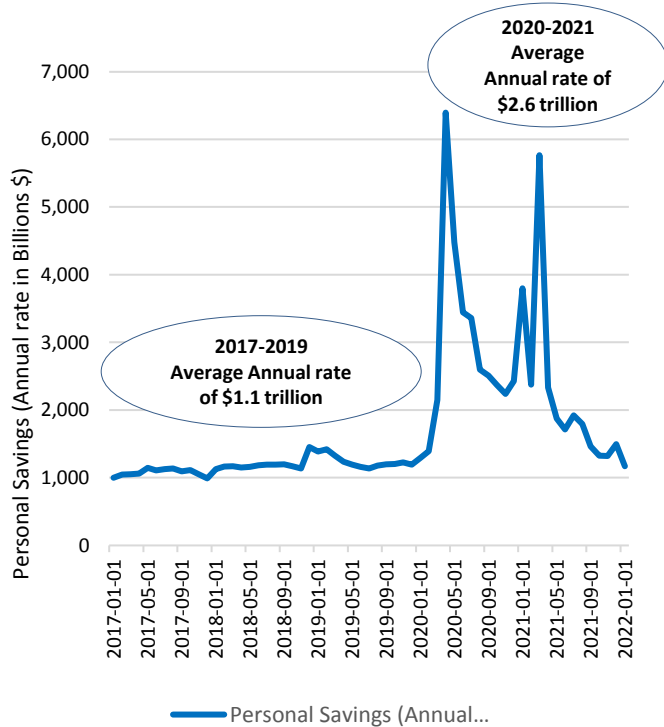
DTI	CLTV	FICO					
		>740	(700-740]	(660-700]	(620-660]	(580-620]	<=580
(0-30)	(0-68]	0	0	1	3	5	11
(0-30)	(68-78]	0	1	2	3	7	12
(0-30)	(78-82)	0	1	2	3	6	10
(0-30)	[82-90]	1	1	2	5	9	13
(0-30)	(90-95]	1	2	4	8	12	16
(0-30)	above 95	3	5	9	17	31	43
[30-40)	(0-68]	0	1	1	3	5	9
[30-40)	(68-78]	0	1	2	4	7	12
[30-40)	(78-82)	0	1	2	4	6	11
[30-40)	[82-90]	1	1	3	5	9	14
[30-40)	(90-95]	1	2	4	7	11	14
[30-40)	above 95	3	5	8	17	29	43
[40-50)	(0-68]	0	1	2	3	4	8
[40-50)	(68-78]	1	1	2	4	7	12
[40-50)	(78-82)	1	1	2	4	7	12
[40-50)	[82-90]	1	2	3	5	10	15
[40-50)	(90-95]	2	2	4	8	12	15
[40-50)	above 95	3	5	9	18	29	44
50 & above	(0-68]	0	1	1	3	5	8
50 & above	(68-78]	1	1	2	3	6	12
50 & above	(78-82)	1	1	2	4	6	8
50 & above	[82-90]	1	2	4	6	9	14
50 & above	(90-95]	2	3	5	8	14	17
50 & above	above 95	4	6	8	15	20	20

Inflation will affect savings and discretionary spending. Mortgage credit performance will remain strong.

Savings

The savings rate surged during the pandemic as a result of the federal government's aid, and as people reduced their discretionary spending. By our estimates, U.S. households accumulated approximately \$2.8 trillion in excess savings¹, thus providing a cushion against high inflation.

Figure 4: Personal Savings



¹Excess Savings – Personal Savings annual rate averaged \$2.6 trillion in 2020-2021 and was, on an annual basis, ~\$1.4 trillion higher relative to pre-pandemic levels. Total excess savings = \$1.4 trillion annual excess * 2 (over two years) = \$2.8 trillion.

Discretionary Spending

As inflation rises and interest rates increase, many are expected to cut their spending on non-essentials like restaurant meals and takeout, clothing, travel, entertainment, and durable goods. Evidence of slowdown on Durable Goods already evident in Figure 6 below.

- Mortgage interest rates are fixed for the term of the loan, and payment amounts remain unchanged as Fed continues to increase rates.
- Quality of underwriting and employment situation are key contributors to mortgage credit performance.

Figure 5: Consumer Spending Expectations

Average percent chance of household purchasing each item over the next four months.

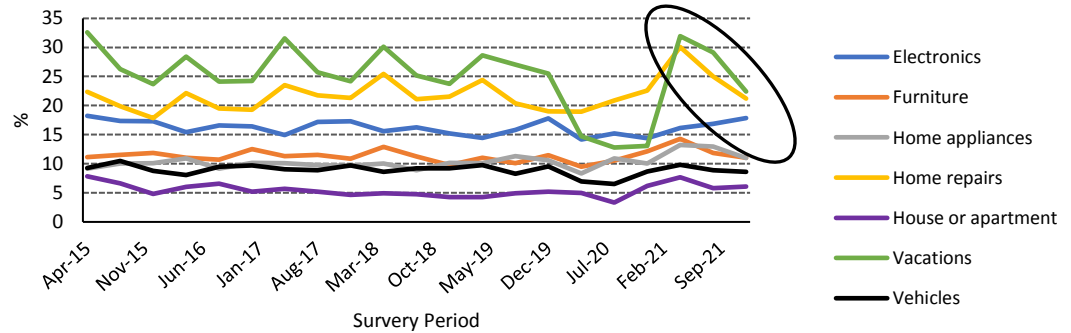
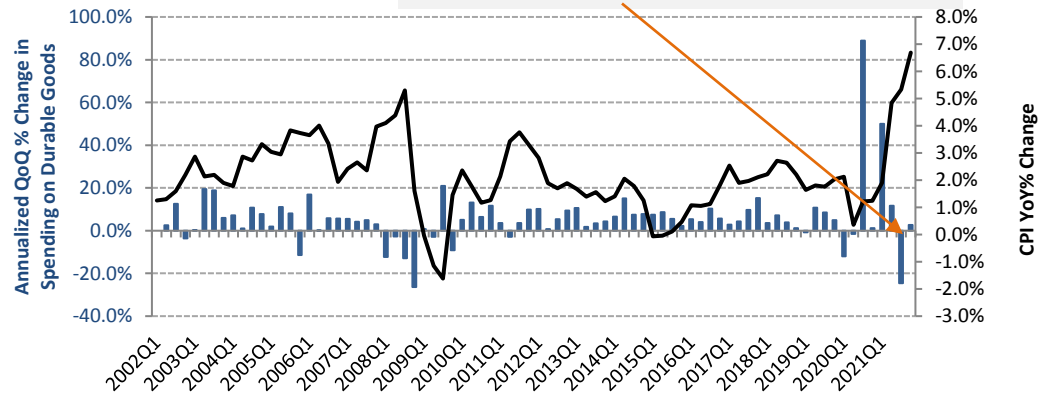


Figure 6: Durable Goods

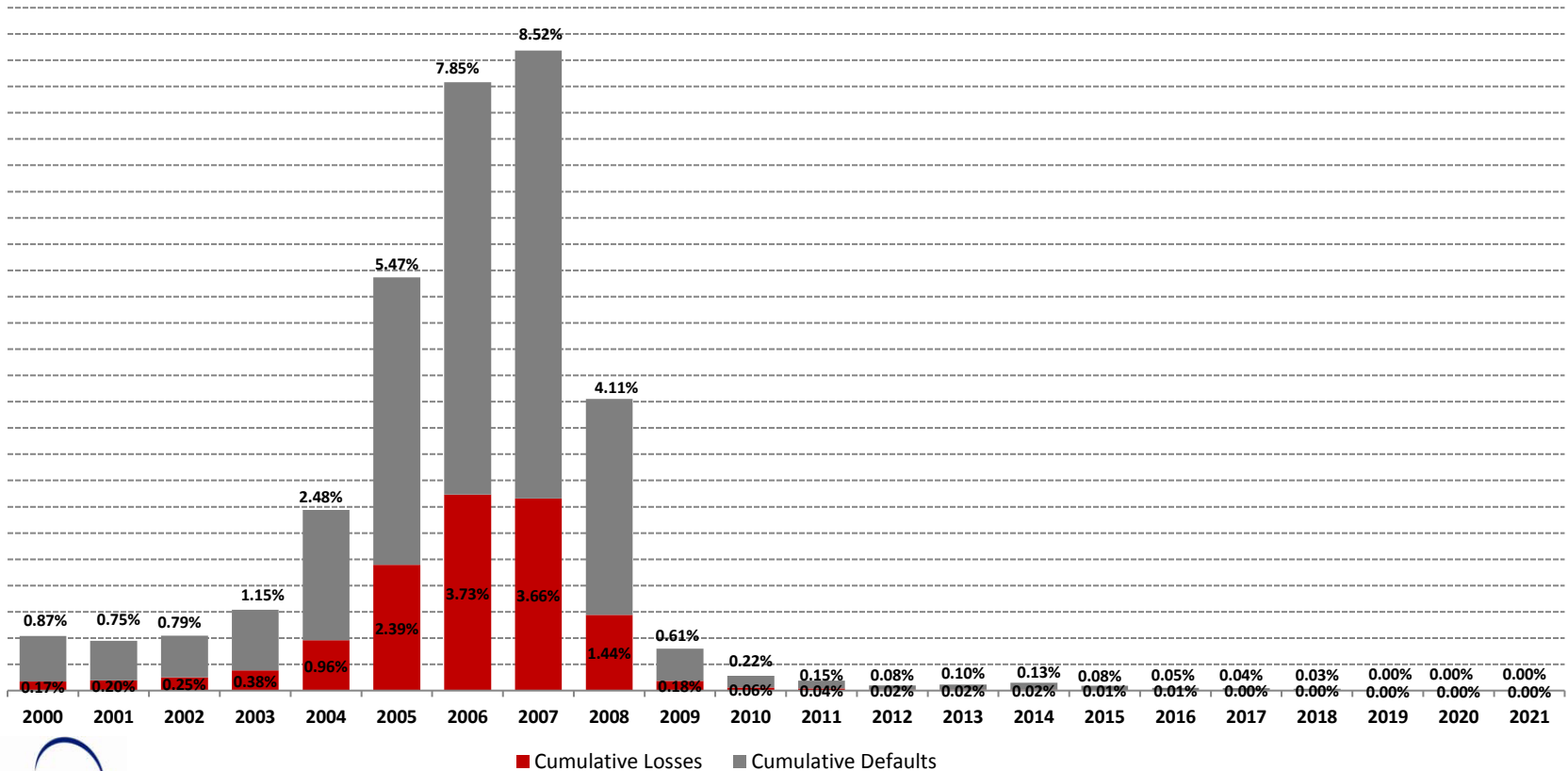
In 2021Q3, while the inflation increased to 5.4%, durable goods spending decreased more than 24%.



Inflationary pressures are expected to have minimal implications on underlying Credit Performance

- Post-Great Financial Crisis underwriting guidelines require 100% Full Doc loans.
- Strict adherence to guidelines by mortgage originators is demonstrated by the credit performance over the past decade. See Figure 7 below.
- Wealth effect due to recent home price appreciation is adding to borrower's willingness to meet mortgage obligations and avoid losing built-up equity.
- Diminution in residual income for some borrowers will result in slow down in discretionary spending.
- Standardized forbearance program in place to assist borrowers seeking payment plan restructuring will avoid any unexpected increases in defaults.

Figure 7: Historical Losses Cumulative Default and Loss % across Origination Vintages



Appendix A – Agency Collateral Profile

- Negative effects of high inflation will mostly affect loans with lower balances, lower FICO and higher DTI cohorts.
 - Based on our estimates, approximately 10% of the pool of Agency loans originated since 2018 have Inflation Adjusted DTIs =>50%.
 - However, only 0.39% of the recent population has Inflation Adjusted DTIs => 50% as well as low FICOs (<=700).

Balance Range	Fico Range	Orig. DTI Range	% Bal	WA Orig. DTI %	WA Inflation Adjusted DTI %	Est. DTI Change	Curr 60+%	Orig. LTV%	HPI Adjusted LTV%
<=100,000	<=680	<=40	0.14%	30.10	43.29	13.19	3.36	80.91	62.28
		> 40 <=45	0.05%	43.12	55.80	12.68	3.59	79.35	60.68
		> 45	0.01%	47.92	59.77	11.85	3.69	77.54	55.86
	> 680 <=720	<=40	0.25%	30.17	43.42	13.25	1.61	83.32	63.93
		> 40 <=45	0.09%	43.06	55.92	12.86	2.55	82.60	63.17
		> 45	0.03%	47.90	60.14	12.24	2.31	79.94	58.51
	> 720 <=760	<=40	0.33%	29.38	42.44	13.06	0.87	82.46	62.68
		> 40 <=45	0.10%	43.03	55.72	12.69	1.46	82.06	62.03
		> 45	0.05%	47.96	60.22	12.25	1.28	80.01	58.55
	> 760	<=40	0.56%	27.83	39.98	12.14	0.41	79.55	57.91
		> 40 <=45	0.12%	42.98	54.64	11.66	0.67	79.78	56.85
		> 45	0.08%	47.95	59.08	11.13	0.66	78.81	54.50
> 100000 <=150000	<=680	<=40	0.34%	31.45	39.84	8.39	3.09	79.68	63.18
		> 40 <=45	0.14%	43.13	51.38	8.25	3.24	79.66	62.56
		> 45	0.03%	47.87	55.67	7.80	5.13	77.30	56.79
	> 680 <=720	<=40	0.76%	31.17	39.73	8.56	1.31	82.65	65.63
		> 40 <=45	0.31%	43.11	51.54	8.43	2.37	83.11	65.51
		> 45	0.11%	47.99	56.17	8.17	2.18	80.16	61.12
	> 720 <=760	<=40	1.12%	30.21	38.84	8.63	0.70	82.40	65.32
		> 40 <=45	0.37%	43.05	51.53	8.48	1.42	83.16	65.41
		> 45	0.20%	47.95	56.27	8.33	1.48	80.76	62.19
	> 760	<=40	1.89%	28.32	36.85	8.53	0.31	79.87	62.64
		> 40 <=45	0.40%	42.97	51.32	8.35	0.57	80.79	62.57
		> 45	0.28%	47.94	56.15	8.21	0.75	79.40	60.71
> 150000 <=200000	<=680	<=40	0.45%	32.00	38.26	6.27	2.52	78.65	63.31
		> 40 <=45	0.22%	43.18	49.36	6.17	3.40	79.21	62.97
		> 45	0.04%	47.96	53.78	5.81	5.04	77.01	57.51
	> 680 <=720	<=40	1.19%	31.63	38.03	6.40	1.19	81.83	65.84
		> 40 <=45	0.53%	43.13	49.44	6.31	2.24	82.77	65.86
		> 45	0.17%	48.00	54.14	6.14	2.02	79.56	61.68
	> 720 <=760	<=40	1.91%	30.58	37.03	6.45	0.53	82.05	65.83
		> 40 <=45	0.66%	43.07	49.45	6.38	1.09	83.34	66.31
		> 45	0.35%	47.97	54.24	6.26	1.52	80.59	63.08
	> 760	<=40	3.46%	28.46	34.89	6.44	0.23	79.61	63.57
		> 40 <=45	0.74%	42.98	49.32	6.34	0.58	81.22	64.15
		> 45	0.52%	47.95	54.22	6.26	0.62	79.29	61.95

Balance range	Fico range	Orig. DTI range	% Bal	WA Orig. DTI	WA Est. DTI	Est. DTI Change	Curr 60+%	Orig. LTV	HPI Adjusted LTV
> 200,000 <=300,000	<=680	<=40	0.84%	32.31	36.78	4.47	2.35	78.43	64.15
		> 40 <=45	0.44%	43.21	47.62	4.41	3.43	79.08	63.90
		> 45	0.06%	48.03	52.13	4.10	6.71	77.00	58.09
	> 680 <=720	<=40	2.72%	31.76	36.31	4.55	1.06	81.45	66.41
		> 40 <=45	1.24%	43.13	47.63	4.49	2.03	82.48	66.61
		> 45	0.40%	47.96	52.37	4.40	2.36	79.43	62.97
	> 720 <=760	<=40	4.97%	30.63	35.22	4.59	0.46	81.86	66.61
		> 40 <=45	1.71%	43.09	47.63	4.54	1.15	83.34	67.30
		> 45	0.89%	48.01	52.49	4.48	1.18	80.53	64.21
	> 760	<=40	9.96%	28.44	33.02	4.59	0.18	79.65	64.72
		> 40 <=45	2.05%	42.98	47.51	4.53	0.52	81.60	65.69
		> 45	1.42%	47.97	52.47	4.51	0.60	79.74	63.78
> 300,000 <=500,000	<=680	<=40	0.95%	32.43	35.30	2.87	2.48	78.57	65.01
		> 40 <=45	0.57%	43.28	46.12	2.84	3.99	79.16	64.92
		> 45	0.07%	47.98	50.63	2.65	9.07	76.07	58.83
	> 680 <=720	<=40	3.62%	31.88	34.82	2.94	1.13	80.55	66.48
		> 40 <=45	1.76%	43.16	46.07	2.91	2.17	81.50	66.83
		> 45	0.58%	48.01	50.86	2.86	2.66	78.34	63.25
	> 720 <=760	<=40	7.55%	30.67	33.66	2.98	0.47	80.53	66.39
		> 40 <=45	2.62%	43.08	46.03	2.95	1.20	81.88	67.11
		> 45	1.38%	47.98	50.90	2.92	1.36	79.20	64.43
	> 760	<=40	17.12%	28.59	31.59	3.00	0.17	78.87	65.08
		> 40 <=45	3.51%	42.96	45.93	2.97	0.49	80.47	66.02
		> 45	2.45%	47.94	50.90	2.95	0.62	78.78	64.37
> 500,000	<=680	<=40	0.18%	32.45	34.40	1.96	2.04	76.13	65.61
		> 40 <=45	0.11%	43.36	45.28	1.92	3.58	76.98	65.62
		> 45	0.01%	48.07	49.87	1.79	5.22	74.50	61.50
	> 680 <=720	<=40	0.85%	32.03	34.00	1.97	1.12	78.14	66.87
		> 40 <=45	0.43%	43.19	45.13	1.94	2.53	78.91	67.17
		> 45	0.17%	48.05	49.94	1.89	2.57	76.23	64.11
	> 720 <=760	<=40	2.28%	30.96	32.93	1.97	0.55	78.22	66.62
		> 40 <=45	0.82%	43.06	45.01	1.94	1.39	79.38	67.33
		> 45	0.48%	47.99	49.91	1.92	1.47	77.25	65.32
	> 760	<=40	5.60%	29.43	31.41	1.98	0.17	77.02	65.61
		> 40 <=45	1.30%	42.97	44.90	1.94	0.58	78.22	66.47
		> 45	0.93%	47.95	49.87	1.92	0.71	76.87	65.30

Appendix B – Jumbo Prime Collateral Profile

Inflationary pressures are expected to have minimal implications on Jumbo borrowers' ability to meet their debt obligations.

- Jumbo borrowers have ample cash reserves and sufficient residual income to compensate for high inflation.
- Extremely tight underwriting guidelines; collateral has minimal risk layering.

Balance Range	FICO Range	Orig. DTI Range	% Bal	WA Orig. DTI %	WA Inflation Adjusted DTI %	Est. DTI Change	Curr 60+%	Orig. LTV %	HPI Adjusted LTV %
<=1,000,000	<=700	<=40	0.00%						
		> 40 <=45	0.00%						
		> 45	0.00%						
	> 700 <=720	<=40	1.84%	31.50	32.70	1.21	0.0%	60.92	54.15
		> 40 <=45	0.73%	41.82	43.62	1.80	0.0%	59.71	50.53
		> 45	0.00%						
	> 720 <=760	<=40	8.20%	31.49	32.68	1.19	0.0%	62.34	53.96
		> 40 <=45	1.83%	41.63	43.25	1.62	0.0%	64.22	56.29
		> 45	0.00%						
	> 760	<=40	33.44%	29.86	31.02	1.16	0.0%	59.77	52.18
		> 40 <=45	3.37%	41.83	43.55	1.72	0.0%	61.47	53.46
		> 45	0.00%						
> 1,000,000 <=1,500,000	<=700	<=40	0.00%						
		> 40 <=45	0.00%						
		> 45	0.00%						
	> 700 <=720	<=40	1.22%	30.03	30.98	0.95	0.0%	59.31	56.97
		> 40 <=45	0.67%	42.14	43.48	1.34	0.0%	64.46	60.86
		> 45	0.00%						
	> 720 <=760	<=40	7.25%	30.99	31.74	0.75	0.0%	61.91	56.27
		> 40 <=45	1.62%	42.31	43.54	1.23	0.0%	62.15	57.52
		> 45	0.07%	45.00	46.49	1.49	0.0%	46.06	46.06
	> 760	<=40	25.92%	30.25	31.11	0.87	0.0%	60.98	54.77
		> 40 <=45	4.23%	41.96	43.23	1.27	0.0%	62.21	57.47
		> 45	0.15%	45.21	46.66	1.45	0.0%	45.83	45.83
> 1,500,000	<=700	<=40	0.00%						
		> 40 <=45	0.00%						
		> 45	0.00%						
	> 700 <=720	<=40	0.57%	32.76	33.24	0.48	0.0%	57.00	51.50
		> 40 <=45	0.40%	43.06	43.93	0.86	0.0%	52.88	52.88
		> 45	0.00%						
	> 720 <=760	<=40	1.28%	27.38	27.76	0.38	0.0%	57.27	51.41
		> 40 <=45	0.62%	42.83	43.75	0.92	0.0%	65.22	63.78
		> 45	0.00%						
	> 760	<=40	4.75%	27.66	28.08	0.42	0.0%	58.96	55.19
		> 40 <=45	1.83%	42.60	43.49	0.89	0.0%	58.44	56.38
		> 45	0.00%						

Source: FBC's Whole Loan Trading Program.

Company Background

INVESTORS

Capitalize on FBC's insight and product knowledge of the U.S. Securitized market

Founded in 2006. Registered with the SEC since June 30, 2011

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03.2022