

Safe Harbor Statement



FORWARD-LOOKING STATEMENTS

This presentation includes "forward-looking statements" within the meaning of the safe harbor provisions of the United States Private Securities Litigation Reform Act of 1995. Actual results may differ from expectations, estimates and projections and, consequently, readers should not rely on these forward-looking statements as predictions of future events. Words such as "expect," "target," "assume," "estimate," "project," "budget," "forecast," "anticipate," "intend," "plan," "may," "will," "could," "should," "believe," "predicts," "potential," "continue," and similar expressions are intended to identify such forward-looking statements. These forward-looking statements involve significant risks and uncertainties that could cause actual results to differ materially from expected results, including, among other things, those described in our Annual Report on Form 10-K for the year ended December 31, 2019, and any subsequent Quarterly Reports on Form 10-Q, under the caption "Risk Factors." Factors that could cause actual results to differ include, but are not limited to: the state of credit markets and general economic conditions; the ongoing impact of the COVID-19 pandemic, and the actions taken by federal and state governmental authorities and GSEs in response, on the U.S. economy, financial markets and our target assets; changes in interest rates and the market value of our assets; changes in prepayment rates of mortgages underlying our target assets; the rates of default or decreased recovery on the mortgages underlying our target assets; the occurrence, extent and timing of credit losses within our portfolio; the concentration of credit risks we are exposed to; declines in home prices; our ability to establish, adjust and maintain appropriate hedges for the risks in our portfolio; the availability and cost of our target assets; the availability and cost of financing; changes in the competitive landscape within our industry; our ability to effectively execute and to realize the benefits of strategic transactions and initiatives we have pursued or may in the future pursue; our decision not to renew our management agreement with PRCM Advisers LLC and our ability to successfully transition to a self-managed company; our ability to manage various operational risks and costs associated with our business; interruptions in or impairments to our communications and information technology systems; our ability to acquire mortgage servicing rights (MSR) and successfully operate our seller-servicer subsidiary and oversee our subservicers; the impact of any deficiencies in the servicing or foreclosure practices of third parties and related delays in the foreclosure process; our exposure to legal and regulatory claims; legislative and regulatory actions affecting our business; the impact of new or modified government mortgage refinance or principal reduction programs; our ability to maintain our REIT qualification; and limitations imposed on our business due to our REIT status and our exempt status under the Investment Company Act of 1940.

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Executive Overview



Took Decisive Action in Unprecedented Market Conditions Stemming from COVID-19 Pandemic

Quarterly Summary

- Experienced unprecedented market conditions stemming from the global COVID-19 pandemic. As a result, we took decisive action to reduce portfolio risk and amass a strong defensive liquidity position.
- Sold substantially all of our non-Agency securities, eliminating the risk of continued outsized margin calls and ongoing funding concerns associated with the significant spread widening on these assets.
- Focused on the safety and well-being of our people by implementing mandatory work-from-home measures across all three
 of our offices.
- Reported book value of \$6.96 per common share.
- Incurred a Comprehensive Loss of \$(2.1) billion, or \$(7.63) per weighted average basic common share, representing an annualized return on average common equity of (225.2)%.
- Reported Core Earnings of \$67.6 million, or \$0.25 per weighted average basic common share. (1)

Post Quarter-End Business Update

- Announced non-renewal of management agreement and transition to self-management effective September 19, 2020. Expect benefits to stockholders to include: (1) substantial annual cost savings of approximately \$42 million or \$0.15 per common share; (2) further alignment of interests of management and stockholders; (3) potential for enhanced returns on future capital growth; and (4) potential for attracting new institutional investors.
- In advanced discussions with two major banks regarding servicing advance facilities, which are expected to be finalized in the next 30-60 days, subject to customary closing conditions and GSE approvals.
- Paid interim dividend of \$0.05 per common share and all first quarter preferred dividends; will continue to evaluate our quarterly dividends based on evolving market conditions.

Book Value Summary



(Dollars in millions, except per share data)	В	Q1-2020 Book Value	В	Q1-2020 ook Value per share
Beginning common stockholders' equity	\$	3,969.2	\$	14.54
GAAP Net Loss:				
Core Earnings, net of tax ⁽¹⁾		86.6		
Dividend declaration - preferred		(19.0)		
Core Earnings attributable to common stockholders, net of tax ⁽¹⁾		67.6		
Realized and unrealized gains and losses, net of tax		(1,956.2)		
Other comprehensive loss, net of tax		(198.1)		
Preferred stock dividends in arrears		19.0		
Other		2.3		
Repurchases of common stock		(1.1)		
Issuance of common stock, net of offering costs		0.1		
Ending common stockholders' equity	\$	1,902.8	\$	6.96
Total preferred stock liquidation preference		1,001.3		
Ending total equity	\$	2,904.1		

Attribution of Decrease in Book \	/alue
Realized and unrealized losses on Credit Strategy (non-Agency securities & derivatives)	(71)%
Realized and unrealized losses on	
Rates Strategy (Agency RMBS, MSR & derivatives)	(33)%
Other	4 %

Core Earnings Review⁽¹⁾



(Dollars in millions, except per share data)	Q4-2019	Q1-2020	Variance (\$)
Interest income	\$ 237.3	\$ 255.5	\$ 18.2
Interest expense	167.3	167.3	_
Net interest income	70.0	88.2	18.2
Servicing income, net of amortization on MSR	54.6	55.2	0.6
Gain (loss) on swaps and swaptions	4.8	(12.6)	(17.4)
Gain on other derivatives	9.0	5.3	(3.7)
Other	0.1	0.1	_
Total other income	68.5	48.0	(20.5)
Expenses	49.4	47.0	2.4
Provision for income taxes	2.5	2.6	0.1
Core Earnings ⁽¹⁾	86.6	86.6	_
Dividends on preferred stock	18.9	19.0	(0.1)
Core Earnings attributable to common stockholders ⁽¹⁾	\$ 67.7	\$ 67.6	\$ (0.1)
Basic weighted average Core EPS	\$ 0.25	\$ 0.25	
Core Earnings annualized return on average common equity	6.8%	7.3%	

- First quarter Core Earnings results
 - Favorably driven by:
 - Higher net interest income due to purchase of higher coupon Agency RMBS earlier in the quarter
 - Lower amortization
 - Offset by:
 - Increased interest spread cost on swap positions due to LIBOR resets
 - Lower TBA dollar roll income

Performance Summary



- Repo costs improved in the quarter, but this was offset by higher swap costs as 3-month LIBOR rates declined in the quarter
- · Expect to see improvement in repo costs as LIBOR has come down post quarter-end

	Realized Q4-2019	Realized Q1-2020
Annualized portfolio yield ⁽¹⁾	3.54%	3.52%
Rates		
Agency RMBS, Agency Derivatives and MSR	3.20%	3.18%
Credit		
Non-Agency securities	6.29%	6.76%
Annualized cost of funds ⁽²⁾	2.35%	2.39%
Annualized net yield for aggregate portfolio	1.19%	1.13%

⁽¹⁾ Includes interest income on RMBS and servicing income net of servicing expenses and amortization on MSR.

⁽²⁾ Cost of funds includes interest spread income/expense associated with the portfolio's interest rate swaps and caps.

Financing Profile



ECONOMIC DEBT-TO-EQUITY(1)

- 7.0x at March 31, 2020, compared to 7.5x at December 31, 2019
- Average leverage of 7.4x in the first quarter

DIVERSE FINANCING PROFILE

AGENCY RMBS

- Outstanding repurchase agreements of \$17.8 billion with 22 counterparties
- Have not experienced any significant issues accessing the repo markets; active in rolling repo
 positions in the quarter

MORTGAGE SERVICING RIGHTS

- Outstanding borrowings of \$252.1 million under bilateral MSR financing facilities
- \$400 million of outstanding 5-year MSR term notes(2)
- Committed total capacity of \$450 million under MSR financing alternatives
- · In advanced discussions with two major banks on servicing advance facilities

Transition to Self-Management



NON-RENEWAL OF MANAGEMENT AGREEMENT

- Announced election not to renew the management agreement with PRCM Advisers
- Decision was a result of diligent, thorough and extensive months-long process led by the independent directors of our Board
- Expect to pay one-time cash termination fee of approximately \$144 million
- Confident that this is the right time to make this change and results in material economic benefits to our stockholders

ANTICIPATED BENEFITS FOR STOCKHOLDERS

- ✓ Substantial anticipated annual cost savings of approximately \$0.15 per common share
- ✓ Potential for enhanced returns on future capital growth
- ✓ Further aligns management with stockholders and reduces conflicts of interest
- ✓ Potential for attracting new institutional investors who disfavor external management structures
- Expect to continue to be managed by experienced senior management team

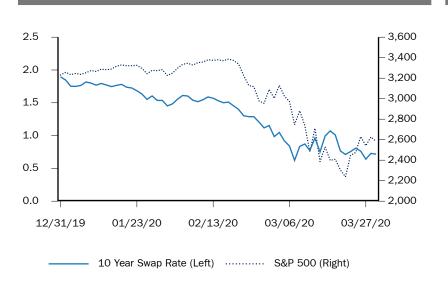
Markets Overview - COVID-19 Pandemic



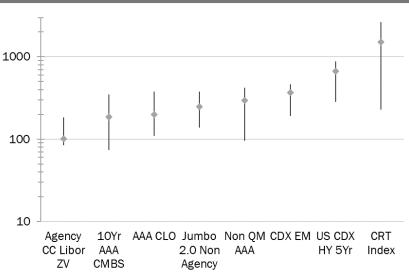
RAPID AND DRAMATIC VOLATILITY RESULTED IN UNPRECEDENTED SPREAD WIDENING

- The COVID-19 pandemic had a swift and dramatic impact on the financial markets in March, causing extreme volatility and unprecedented spread widening across all asset classes
- Interest rates fell roughly 100 basis points (bps); equities, after reaching a high on February 19th, fell 35% before recovering
- Agency RMBS spreads widened as much as 100 bps to 200 bps, depending on coupon, beginning in the second week of March
- Since quarter-end, Agency RMBS have recovered almost completely to pre-crisis levels, whereas most other sectors have retraced some of their widening

Q1-2020 10-YEAR SWAP RATE AND S&P 500 PERFORMANCE(1)



SPREAD WIDENING IMPACT ACROSS ASSET CLASSES(2)



Source: Bloomberg, as of March 31, 2020.

⁽²⁾ Source: J.P. Morgan data query, as of April 29, 2020.

Markets Overview - COVID-19 Pandemic



HISTORIC MBS SPREAD WIDENING

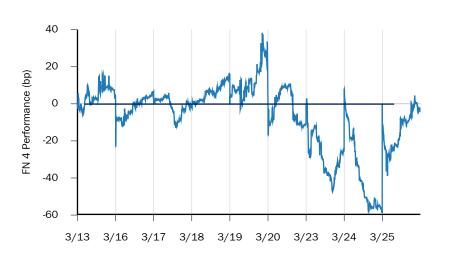
- Current coupon spreads widened a similar amount compared to the 2008 financial crisis, but in a more compressed time period
 - It took 10 days vs. 60 days to reach the wides, and another 10 days vs. 100 days to retrace to the tights
- There were very extreme movements in mortgage spreads, sometimes widening and tightening 50 bps in a single day
- Price volatility was also created by illiquidity in the RMBS market

Since 3/1/20

SPREAD CHANGES IN 2008 VS. MARCH 2020(1)

140 MBS Index Treasury Spread Change (bp) 120 100 80 60 40 20 0 -20 -40 -60 105 120 135 150 165 30 60 75 90

DAILY SPREAD CHANGES IN MARCH 2020(2)



2008

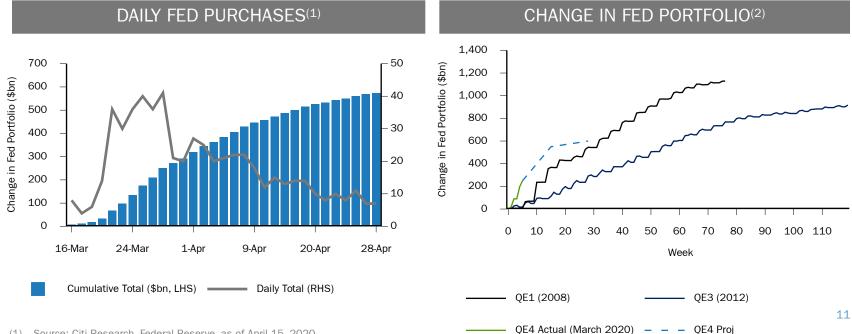
⁽¹⁾ J.P. Morgan's MBS Index, as of April 27, 2020.

Markets Overview - COVID-19 Pandemic



EMERGENCY FED INTERVENTIONS THROUGHOUT MARCH STABILIZED THE MARKETS

- March 3: Fed intervened with an emergency 50 basis point cut to try to calm the markets
- March 15: The Fed cut rates again to zero. Additionally, the Fed announced that they would begin
 purchasing \$500 billion Treasuries and \$200 billion Agency RMBS in an attempt to stabilize those
 markets
- March 23: Fed said that they would buy an unlimited amount of Treasuries and RMBS to stabilize the market; this has become known as QE4
 - To date, the Fed has purchased more than \$500 billion of RMBS, and expanded its balance sheet to over \$6 trillion



⁽¹⁾ Source: Citi Research, Federal Reserve, as of April 15, 2020.

⁽²⁾ Source: Citi Research, Bloomberg, as of April 15, 2020.

Portfolio Composition and Quarterly Activity



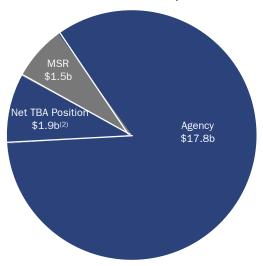
PORTFOLIO ACTIVITY

- Took the following actions in response to the COVID-19 pandemic liquidity crisis:
 - De-levered Agency portfolio by selling approximately \$18 billion of specified pools and TBAs
 - Sold substantially all of the non-Agency securities, eliminating risk of continued outsized margin calls and ongoing funding concerns

Q1-2020 PORTFOLIO COMPOSITION(1)

\$21.2b PORTFOLIO AS OF MARCH 31, 2020

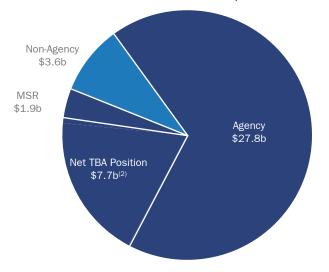
Includes \$19.3b settled positions



Q4-2019 PORTFOLIO COMPOSITION

\$41.0b PORTFOLIO AS OF DECEMBER 31, 2019

Includes \$33.4b settled positions



⁽¹⁾ For additional detail on the portfolio, see Appendix slides 25-27.

⁽²⁾ Represents bond equivalent value of TBA position. Bond equivalent value is defined as notional amount multiplied by market price. Accounted for as derivative instruments in accordance with GAAP.

Specified Pools

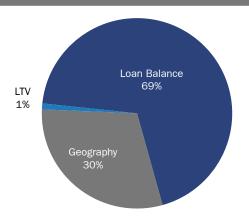


SPECIFIED POOL QUARTERLY CHANGES

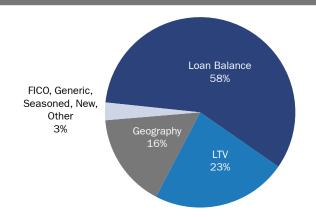
- Despite falling rates and theoretically more valuable protection, specified pool payups fell precipitously during the quarter, at times trading below TBA levels
- During the quarter we sold \$7.0 billion of TBAs
- We also sold \$13.4 billion of low payup 3's through 4.5's
- Specified pools significantly recovered in April

EXAMPLE OF HIGH LOAN BALANCE 3.5(1) 4.5 140% 4.0 120% 3.5 Payup (Points) 100% 3.0 80% 2.5 2.0 60% 1.5 40% 1.0 0.5 0.0 37. Jan 20 -28/₆₀-20 13.Mar. 20 HLB 3.5 Payup % of Theoretical

SPECIFIED POOL PORTFOLIO COMPOSITION 3/31/2020



SPECIFIED POOL PORTFOLIO COMPOSITION 12/31/2019

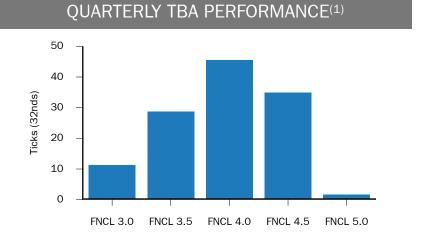


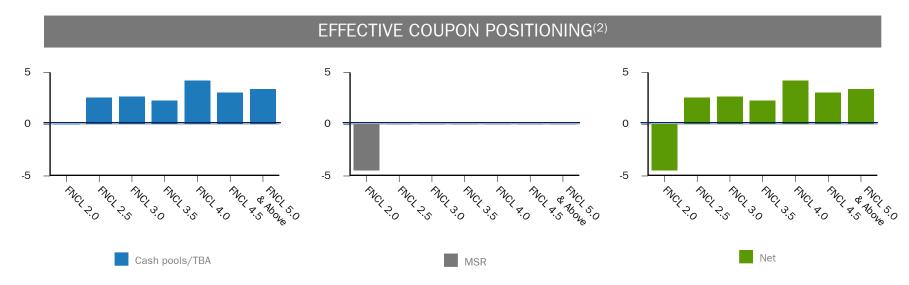
Coupon Positioning & Performance



QUARTERLY REVIEW

- Despite massive intraday and interday volatility in the RMBS spreads, quarter-to-date RMBS performed well, with the middle of the stack outperforming their hedges by about 1 point
- In March, when liquidity was poor, reduced lower coupons since they were more liquid than higher coupons
- Opportunistically moved down in coupon when the Fed stepped in to buy higher coupons





⁽¹⁾ J.P. Morgan Data Query as of March 31, 2020.

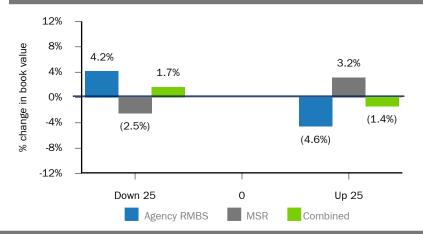
⁽²⁾ The effective coupon positioning for MSR is an internally calculated exposure that represents the current coupon equivalents of our MSR assets. Data as of March 31, 2020.

Risk Positioning

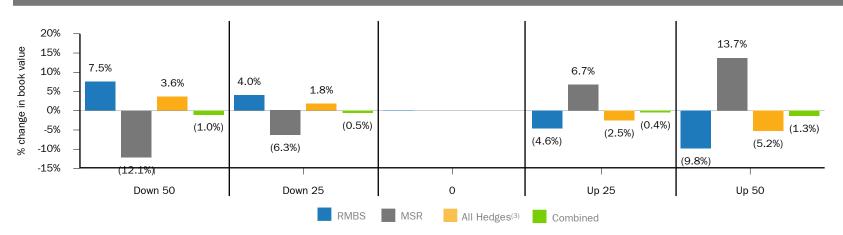
LOW RISK EXPOSURES

- Exposure to mortgage spreads and interest rates remains small
- In a 25 bps spread widening, potential book value decrease of 1.4%
- In a 50 bps instantaneous parallel shift upward in interest rates, potential book value decrease of 1.3%

COMMON BOOK VALUE EXPOSURE TO CHANGES IN SPREADS(1)



COMMON BOOK VALUE EXPOSURE TO CHANGES IN RATES(2)



Note: Sensitivity data as of March 31, 2020. The above spread scenario is provided for illustration purposes only and is not necessarily indicative of Two Harbors' financial condition and operating results, nor is it necessarily indicative of the financial condition or results of operations that may be expected for any future period or date.

(1) The information presented in this chart projects the potential impact on common book value of instantaneous changes in current coupon mortgage spreads. Spread sensitivity is based on results from third party models in conjunction with inputs from our internal investment professionals. Actual results could differ materially from these estimates.

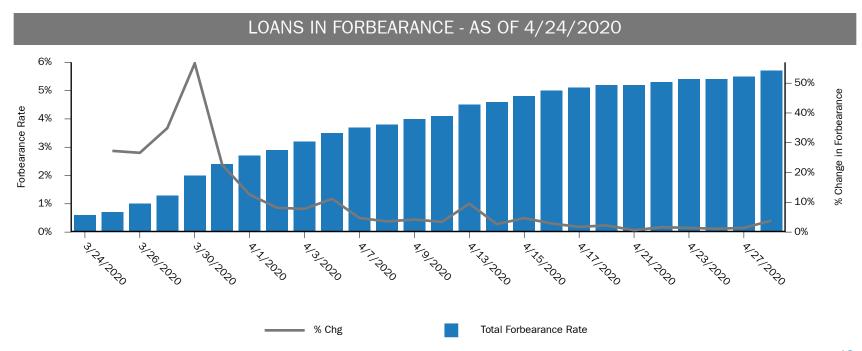
⁽²⁾ Represents estimated change in common book value for theoretical parallel shift in interest rates.

Special Topic - Mortgage Loan Forbearance⁽¹⁾



MORTGAGE FORBEARANCE RATE ANTICIPATED TO BE MANAGEABLE

- As of April 28, 2020, 5.7% of our loans, by count, were in forbearance; 6.3% by UPB
- · Blue bars are cumulative forbearance rate, by number of loans, and shown on the left hand axis
- Gray line (right axis) is the daily change in forbearance requests; daily changes are bouncing around the 2% area
- Believe that base case is roughly a 15% ultimate take-up rate



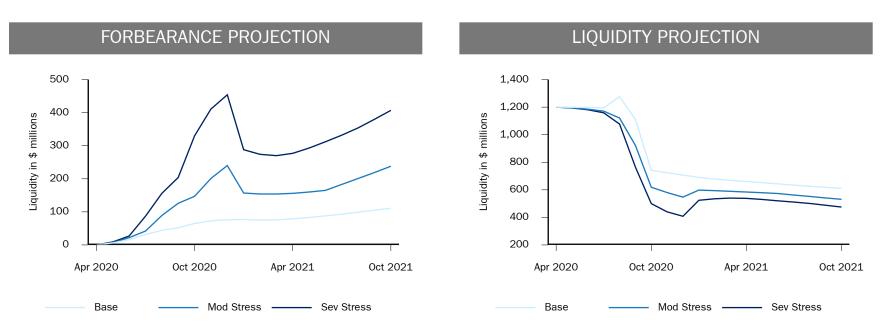
Special Topic - Forbearance Scenario Analysis⁽¹⁾



CONFIDENT IN LIQUIDITY POSITION AND ABILITY TO MAKE FUTURE SERVICING ADVANCES

- Congress enacted the Coronavirus Aid, Relief, and Economic Security Act (CARES Act)
 - Provides up to 180 days of forbearance for borrowers with federally backed mortgages who experience financial hardship related to the pandemic
 - If needed, borrowers can extend forbearance for another 180 days
 - Prohibits foreclosures for 60 days

- Forbearance modeling is shown below in three scenarios: base case, moderate stress, severe stress
 - Base case: 15% peak forbearance, 25 CPR
 - Moderate stress: 20% peak forbearance, 20 CPR
 - Severe stress: 25% peak forbearance, 15 CPR



⁽¹⁾ The above forbearance and liquidity projections are provided for illustration purposes only and are not necessarily indicative of Two Harbors' financial condition and operating results, nor are these projections necessarily indicative of the financial condition or results of operations that may be expected for any future period or date. These scenarios include as assumptions: prepay speeds start at 25 CPR and ramp down to 10 CPR over 4 months; P&I advancing stops after 4 months, and is reimbursed at loan resolution, assumed to be 15 months from now; interim T&I reimbursement for Fannie. Based on model assumptions as of April 24, 2020.

Outlook - Return Expectations

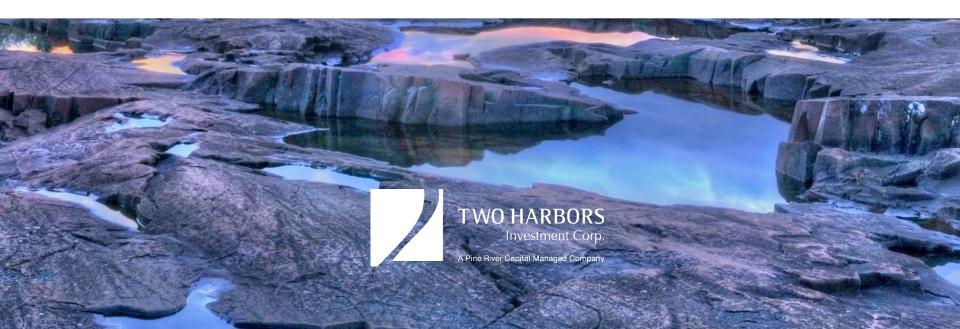


OPPORTUNITY SET IN OUR TARGET ASSETS IS VERY ATTRACTIVE TODAY

- There are multiple near-term potential drags on earnings, including but not limited to:
 - Sub-optimal capital allocation
 - High cash balances
 - Servicing advance facilities costs
 - Higher sub-servicing costs on delinquent loans
 - Uncertainty in MSR pricing
- Estimate that returns on Agency RMBS are in the low-to-mid teens
- Estimate that forward-looking returns for current book of MSR (paired with Agency RMBS) are in the high teens
- Estimate that forward-looking returns for new flow MSR (paired with Agency RMBS) are north of 25%



Appendix

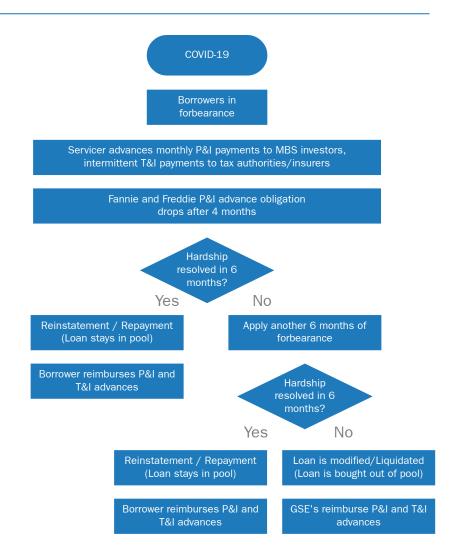


Special Topic - Servicing Advances



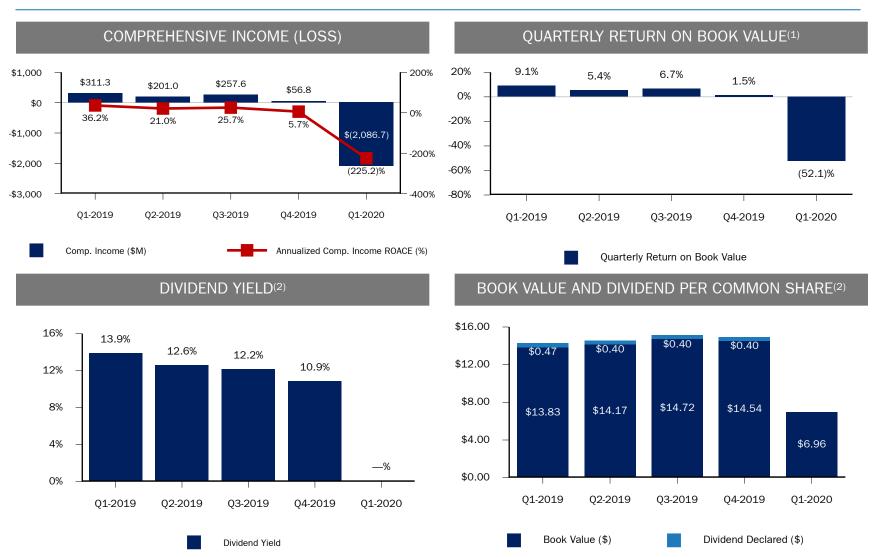
ADVANCING OBLIGATIONS HAVE CHANGED

- Under the CARES Act, a borrower can request initial forbearance relief of up to 180 days
- · Servicer is required to advance months of:
 - 4 months of scheduled principal and interest, for Fannie loans
 - 4 months of scheduled interest, for Freddie loans
 - Advances of taxes and insurance
- Prior to the end of the initial forbearance period, the servicer checks in with the borrower:
 - If the borrower can begin to make payments again either through reinstatement (lump sum) or a repayment plan; then principal and interest, and taxes and insurance are repaid to the servicer over the course of the plan
 - If the borrower cannot make payments, another 6 months of forbearance can be requested
- · At the end of 12 months:
 - If the borrower can make his payments either through reinstatement (lump sum) or a repayment plan, then principal and interest, and taxes and insurance are repaid to the servicer over the course of the plan
 - If the borrower cannot make the payments, then there are several potential options:
 - Payment deferral (add payments to the end), or
 - Modification or liquidation
 - In the case of modification or liquidation, the loan is bought out of the pool and principal and interest, and taxes and insurance are repaid to the servicer



Financial Performance





⁽¹⁾ Return on book value is defined as the increase (decrease) in book value per common share from the beginning to the end of the given period, plus dividends declared in the period, divided by the book value as of the beginning of the period.

⁽²⁾ Historical dividends may not be indicative of future dividend distributions. The company ultimately distributes dividends based on its taxable income per common share, not GAAP earnings. The annualized dividend yield on the company's common stock is calculated based on the closing price of the last trading day of the relevant quarter.

Q1-2020 Operating Performance



				Q1-2	2020		
(In millions, except for per common share data)	Core	Earnings ⁽¹⁾	Rea	alized Gains (Losses)		Unrealized MTM	Total
Interest income	\$	255.5	\$	_	\$	_	\$ 255.5
Interest expense		167.3					 167.3
Net interest income		88.2		_		_	88.2
Loss on investment securities		_		(1,080.7)		(0.9)	(1,081.6)
Servicing income		130.8		_		_	130.8
Loss on servicing asset		(75.6)		(3.4)		(507.6)	(586.6)
(Loss) gain on interest rate swaps and swaptions		(12.6)		361.8		(599.8)	(250.6)
Gain (loss) on other derivative instruments		5.3		(70.7)		(68.1)	(133.5)
Other income		0.1		0.1		0.6	0.8
Total other Income (loss)		48.0		(792.9)		(1,175.8)	(1,920.7)
Management fees & other expenses		47.0		3.3		_	 50.3
Net income (loss) before income taxes		89.2		(796.2)		(1,175.8)	(1,882.8)
Income tax expense (benefit)		2.6		85.4		(101.2)	(13.2)
Net income (loss)		86.6		(881.6)		(1,074.6)	(1,869.6)
Dividends on preferred stock		19.0		_		_	19.0
Net income (loss) attributable to common stockholders	\$	67.6	\$	(881.6)	\$	(1,074.6)	\$ (1,888.6)
Weighted average earnings (loss) per basic common share	\$	0.25	\$	(3.22)	\$	(3.94)	\$ (6.91)

⁽¹⁾ Core Earnings is a non-GAAP measure. Please see Appendix slide 24 of this presentation for a definition of Core Earnings and a reconciliation of GAAP to non-GAAP financial information.

Q4-2019 Operating Performance



		Q4-2	019)	
(In millions, except for per common share data)	Core Earnings ⁽¹⁾	Realized Gains (Losses)		Unrealized MTM	Total
Interest income	\$ 237.3	\$ _	\$	1.1	\$ 238.4
Interest expense	167.3	_			167.3
Net interest income	70.0	_		1.1	71.1
Total other-than-temporary impairments and loss recovery adjustments	_	_		(3.3)	(3.3)
Gain on investment securities	_	27.6		0.5	28.1
Servicing income	127.7	_		_	127.7
(Loss) gain on servicing asset	(73.1)	(3.4)		54.7	(21.8)
Gain (loss) on interest rate swaps, caps and swaptions	4.8	(1.5)		(10.1)	(6.8)
Gain (loss) on other derivative instruments	9.0	(10.8)		(9.0)	(10.8)
Other income (loss)	0.1	_		(0.1)	_
Total other income	68.5	11.9		36.0	116.4
Management fees & other expenses	49.4	2.5			51.9
Net income before income taxes	89.1	9.4		33.8	132.3
Income tax expense (benefit)	2.5	(1.5)		(3.4)	(2.4)
Net income	86.6	10.9		37.2	134.7
Dividends on preferred stock	19.0	_		_	19.0
Net income attributable to common stockholders	\$ 67.6	\$ 10.9	\$	37.2	\$ 115.8
Weighted average earnings per basic common share	\$ 0.25	\$ 0.04	\$	0.13	\$ 0.42

⁽¹⁾ Core Earnings is a non-GAAP measure. Please see Appendix slide 24 of this presentation for a definition of Core Earnings and a reconciliation of GAAP to non-GAAP financial information.

GAAP to Core Earnings Reconciliation(1)



Reconciliation of GAAP to non-GAAP Information	Thi	ree Months Ended	Three Months Ended
(In thousands, except for per common share data)	De	ecember 31, 2019	March 31, 2020
Reconciliation of Comprehensive income (loss) to Core Earnings:			
Comprehensive income (loss) attributable to common stockholders	\$	56,850	\$ (2,086,676)
Adjustment for other comprehensive loss attributable to common stockholders:			
Unrealized loss on available-for-sale securities		58,954	198,070
Net income (loss) attributable to common stockholders	\$	115,804	\$ (1,888,606)
Adjustments for non-core earnings:			
Other-than-temporary impairments and loss recovery adjustments		2,198	_
Realized (gain) loss on securities		(27,615)	1,035,038
Unrealized (gain) loss on securities		(526)	931
Provision for credit losses		_	45,638
Realized and unrealized (gain) loss on mortgage servicing rights		(51,387)	511,059
Realized loss (gain) on termination or expiration of swaps and swaptions		1,495	(361,853)
Unrealized losses on interest rate swaps, caps and swaptions		10,148	599,834
Losses on other derivative instruments		19,833	138,819
Other loss (income)		73	(735)
Change in servicing reserves		72	232
Non-cash equity compensation expense		2,423	2,315
Other nonrecurring expenses		_	719
Net benefit from income taxes on non-Core Earnings		(4,847)	(15,774)
Core Earnings attributable to common stockholders(1)	\$	67,671	\$ 67,617
Weighted average basic common shares		272,906,815	273,392,615
Core Earnings per weighted average basic common share	\$	0.25	\$ 0.25

⁽¹⁾ Core Earnings is a non-U.S. GAAP measure that we define as comprehensive (loss) income attributable to common stockholders, excluding "realized and unrealized gains and losses" (impairment losses, provision for credit losses, realized and unrealized gains and losses on the aggregate portfolio, reserve expense for representation and warranty obligations on MSR, non-cash compensation expense related to restricted common stock and other nonrecurring expenses). As defined, Core Earnings includes net interest income, accrual and settlement of interest on derivatives, dollar roll income on TBAs, servicing income, net of estimated amortization on MSR, management fees and recurring cash related operating expenses. Dollar roll income is the economic equivalent to holding and financing Agency RMBS using short-term repurchase agreements. Core Earnings provides supplemental information to assist investors in analyzing the Company's results of operations and helps facilitate comparisons to industry peers.

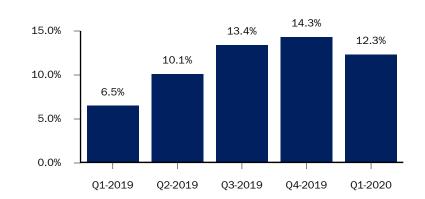
Portfolio Metrics

Q1-2019

Q2-2019

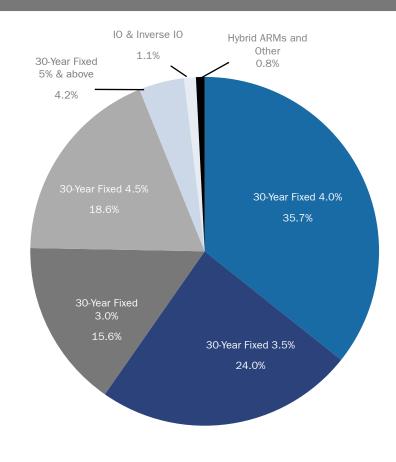


AGENCY RMBS CPR(1)



25.0% 20.5% 20.8% 19.9% 20.0% - 13.7% 13.7% 5.0% - 0.0%

AGENCY PORTFOLIO COMPOSITION



Q4-2019

Q1-2020

Q3-2019

Agency RMBS Portfolio



As of March 31, 2020	Par Value (\$M)	Market Value (\$M)	Weighted Average CPR	% Prepay Protected ⁽¹⁾	Amortized Cost Basis (\$M)	Gross Weighted Average Coupon	Weighted Average Age (Months)
30-Year fixed							
3.0%	\$ 2,636	\$ 2,778	3.0%	100.0%	\$ 2,720	3.7%	5
3.5%	3,991	4,267	6.7%	100.0%	4,184	4.2%	8
4.0%	5,858	6,351	15.8%	100.0%	6,124	4.5%	33
4.5%	3,030	3,303	17.9%	100.0%	3,196	5.0%	26
≥ 5.0%	687	754	23.4%	98.6%	729	5.8%	52
	16,202	17,453	12.4%	99.9%	16,953	4.5%	22
Other P&I ⁽²⁾	114	132	7.8%	—%	128	6.7%	216
IOs and IIOs(3)	2,841	195	10.3%	—%	212	5.2%	138
Total Agency RMBS	\$ 19,157	\$ 17,780		98.1%	\$ 17,293		

As of March 31, 2020	Notional Amount (\$M)	Bond Equivalent Value (\$M) ⁽⁴⁾	Implied CPR ⁽⁵⁾
TBA Positions			
2.5%	\$ 2,565	\$ 2,657	3.4%
3.0%	(1,753)	(1,854)	25.9%
3.5%	_	_	35.1%
4.0%	(1,750)	(1,868)	44.4%
4.5%	_	_	45.4%
5.0%	2,699	2,912	44.6%
Net TBA position	\$ 1,761	\$ 1,847	

⁽¹⁾ Includes securities with implicit or explicit protection including lower loan balances (securities collateralized by loans less than or equal to \$200K of initial principal balance), higher LTVs (securities collateralized by loans with greater than or equal to 80% LTV), certain geographic concentrations and lower FICO scores.

⁽²⁾ Includes 15-year fixed, Hybrid ARMs, CMO and DUS pools.

⁽³⁾ Represents market value of \$121.7 million of IOs and \$73.3 million of Agency Derivatives.

⁽⁴⁾ Bond equivalent value is defined as the notional amount multiplied by market price. Accounted for as derivative instruments in accordance with GAAP.

⁽⁵⁾ Implied TBA speeds from J.P. Morgan Data Query.

Mortgage Servicing Rights Portfolio(1)



(dollars in millions)	Number of Loans	Unpaid Principal Balance	Fair Value	% Fannie Mae	Gross Weighted Average Coupon Rate	Weighted Average Loan Age (months)	Weighted Average Original FICO ⁽²⁾	Weighted Average Original LTV	60+ Day Delinquencies	3-Month CPR	Net Servicing Fee (bps)
30-Year Fixed											
<u><</u> 3.75%	116,156	\$ 31,109	\$ 273	70%	3.5%	43	771	70%	0.1%	11.4%	26.7
3.75% - 4.25%	253,260	62,353	531	64%	3.9%	38	760	76%	0.2%	16.4%	27.5
4.25% - 4.75%	189,552	41,814	344	65%	4.4%	35	745	79%	0.3%	26.0%	26.7
4.75% - 5.25%	90,724	18,305	157	66%	4.9%	28	731	80%	0.5%	29.8%	28.0
> 5.25%	33,733	5,702	50	70%	5.5%	26	709	80%	1.0%	26.6%	31.0
	683,425	159,283	1,355	66%	4.1%	37	753	76%	0.3%	21.4%	27.3
15-Year Fixed											
≤ 2.75%	2,336	465	3	80%	2.6%	47	778	60%	—%	8.1%	26.1
2.75% - 3.25%	41,584	7,378	53	77%	3.0%	45	772	62%	—%	10.1%	25.9
3.25% - 3.75%	41,510	6,607	50	72%	3.4%	39	760	65%	0.1%	13.5%	27.8
3.75% - 4.25%	21,363	2,988	24	63%	3.9%	33	747	66%	0.3%	20.0%	29.7
> 4.25%	11,471	1,377	11	62%	4.5%	25	734	66%	0.3%	24.5%	31.4
	118,264	18,815	141	72%	3.4%	39	734	64%	0.1%	14.2%	27.6
Total ARMs	6,286	1,616	9	68%	3.6%	44	762	66%	0.3%	27.8%	25.2
Total Portfolio	807,975	\$ 179,714	\$ 1,505	66%	4.1%	37	754	75%	0.3%	19.9%	27.3

⁽¹⁾ Excludes residential mortgage loans for which the company is the named servicing administrator.

⁽²⁾ FICO represents a mortgage industry accepted credit score of a borrower.

Financing



\$ in millions									
Outstanding Borrowings and Maturities ⁽¹⁾	Repurchase Agreements	FHLB Advances		Revolving Credit Facilities	Term Notes Payable	Convertible Notes	Tota	al Outstanding Borrowings	Percent (%)
Within 30 days	\$ 6,138.2	\$ —	- \$	<u> </u>	\$ _	\$ _	\$	6,138.2	32.7%
30 to 59 days	6,034.5		-	_	_	_		6,034.5	32.1%
60 to 89 days	2,046.5	_	-	_	_	_		2,046.5	10.9%
90 to 119 days	1,722.9	_	-	_	_	_		1,722.9	9.2%
120 to 364 days	1,853.4	_	-	252.1	_	_		2,105.5	11.2%
One to three years	_	_	-	_	_	285.2		285.2	1.5%
Three to five years	_	_	-	_	394.8	_		394.8	2.1%
Five to ten years	_	_		_	_	_		_	—%
Ten years and over ⁽²⁾	_	50.0)	_	_			50.0	0.3%
	\$ 17,795.5	\$ 50.0	\$	252.1	\$ 394.8	\$ 285.2	\$	18,777.6	100.0%
Collateral Pledged for Borrowings ⁽³⁾	Repurchase Agreements ⁽⁴⁾	FHLB Advances		Revolving Credit Facilities ⁽⁴⁾	Term Notes Payable	Convertible Notes	T	otal Collateral Pledged	Percent (%)
Available-for-sale securities, at fair value	\$ 17,661.4	\$ 52.2	\$	_	\$ _	n/a	\$	17,713.6	92.8%
Derivative assets, at fair value	73.2	_		_	_	n/a		73.2	0.4%
Mortgage servicing rights, at fair value	368.8	_		372.4	566.8	n/a		1,308.0	6.8%
	\$ 18,103.4	\$ 52.2	\$	372.4	\$ 566.8	n/a	\$	19,094.8	100.0%

⁽¹⁾ Weighted average of 3.7 months to maturity.

⁽²⁾ Includes FHLB advances of \$50 million with original maturities of 20 years.

⁽³⁾ Excludes FHLB membership and activity stock totaling \$12.0 million.

⁽⁴⁾ Repurchase agreements and/or revolving credit facilities secured by MSR may be over-collateralized due to operational considerations.

Interest Rate Swaps



INTEREST RATE SWAPS

Notional Amounts (\$B)	Average Fixed Pay Rate	Average Receive Rate	Average Maturity Years
\$ 3.6	1.806%	1.352%	0.6
15.8	1.681%	1.685%	1.2
2.6	1.911%	1.176%	2.5
0.2	3.057%	1.683%	3.6
8.7	2.224%	1.555%	7.0
\$ 30.9	1.878%	1.580%	2.9
		Average Fixed Receive	Average Maturity
Notional Amounts (\$B)	Average Pay Rate	Rate	(Years)
\$ _	—%	—%	_
9.2	1.188%	0.799%	1.0
9.2 6.1	1.188% 1.152%	0.799% 0.527%	1.0 2.0
6.1	1.152%	0.527%	
\$	\$ 3.6 15.8 2.6 0.2 8.7 \$ 30.9	\$ 3.6 1.806% 15.8 1.681% 2.6 1.911% 0.2 3.057% 8.7 2.224% \$ 30.9 1.878% Notional Amounts (\$B) Average Pay Rate	\$ 3.6 1.806% 1.352% 15.8 1.681% 1.685% 2.6 1.911% 1.176% 0.2 3.057% 1.683% 8.7 2.224% 1.555% \$ 30.9 1.878% Average Pay Rate Average Fixed Receive Rate

Interest Rate Swaptions



Option					Underlying Swap			
Swaption	Expiration	Cost (\$M)	Fair Value (\$M)	Average Months to Expiration	Notion Amou (\$	nt Average Pay	Average Receive Rate	Average Term (Years)
Purchase Contracts:								
Payer	<6 Months	\$ 9.0	\$ —	0.9	\$ 2,5	50 2.27%	3M LIBOR	10.0
Total Payer		\$ 9.0	\$	0.9	\$ 2,5	50 2.27%	3M LIBOR	10.0
Sale Contracts:								
Receiver	<6 Months	\$ (4.5)	\$ (62.7)	0.9	\$ (1,1	74) 3M LIBOR	1.26%	10.0
Total Receiver		\$ (4.5)	\$ (62.7)	0.9	\$ (1,1	74) 3M LIBOR	1.26%	10.0

