Second Quarter 2022

FARMER MAC

Equity Investor Presentation
Forward-Looking Statements

In addition to historical information, this presentation includes forward-looking statements that reflect management’s current expectations for Farmer Mac’s future financial results, business prospects, and business developments. Forward-looking statements include, without limitation, any statement that may predict, forecast, indicate, or imply future results, performance, or achievements. Management’s expectations for Farmer Mac’s future necessarily involve assumptions, estimates, and the evaluation of risks and uncertainties. Various factors or events, both known and unknown, could cause Farmer Mac’s actual results to differ materially from the expectations as expressed or implied by the forward-looking statements. Some of these factors are identified and discussed in Farmer Mac’s Annual Report on Form 10-K for the year ended December 31, 2021, filed with the U.S. Securities and Exchange Commission (“SEC”) on February 28, 2022, Quarterly Report on Form 10-Q for the quarter ended March 31, 2022, filed with the SEC on May 9, 2022, and Quarterly Report on Form 10-Q for the quarter ended June 30, 2022, filed with the SEC on August 8, 2022. These reports are also available on Farmer Mac’s website (www.farmermac.com). Considering these potential risks and uncertainties, no undue reliance should be placed on any forward-looking statements expressed in this presentation. Any forward-looking statements made in this presentation are current only as of June 30, 2022, except as otherwise indicated. Farmer Mac undertakes no obligation to release publicly the results of revisions to any such forward-looking statements that may be made to reflect new information or any future events or circumstances, except as otherwise mandated by the SEC. The information in this presentation is not necessarily indicative of future results.

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Use of Non-GAAP Financial Measures

This presentation is for general informational purposes only, is current only as of June 30, 2022 and should be read in conjunction with Farmer Mac’s Quarterly Report on Form 10-Q filed with the SEC on August 8, 2022. In the accompanying analysis of its financial information, Farmer Mac uses the following non-GAAP financial measures: core earnings, core earnings per share, and net effective spread. Farmer Mac uses these non-GAAP measures to measure corporate economic performance and develop financial plans because, in management’s view, they are useful alternative measures in understanding Farmer Mac's economic performance, transaction economics, and business trends. The non-GAAP financial measures that Farmer Mac uses may not be comparable to similarly labeled non-GAAP financial measures disclosed by other companies. Farmer Mac's disclosure of these non-GAAP financial measures is intended to be supplemental in nature and is not meant to be considered in isolation from, as a substitute for, or as more important than, the related financial information prepared in accordance with GAAP.

Core earnings and core earnings per share principally differ from net income attributable to common stockholders and earnings per common share, respectively, by excluding the effects of fair value fluctuations. These fluctuations are not expected to have a cumulative net impact on Farmer Mac’s financial condition or results of operations reported in accordance with GAAP if the related financial instruments are held to maturity, as is expected.

Core earnings and core earnings per share also differ from net income attributable to common stockholders and earnings per common share, respectively, by excluding specified infrequent or unusual transactions that Farmer Mac believes are not indicative of future operating results and that may not reflect the trends and economic financial performance of Farmer Mac’s core business.

Farmer Mac uses net effective spread to measure the net spread Farmer Mac earns between its interest-earning assets and the related net funding costs of these assets. Net effective spread differs from net interest income and net interest yield because it excludes: (1) the amortization of premiums and discounts on assets consolidated at fair value that are amortized as adjustments to yield in interest income over the contractual or estimated remaining lives of the underlying assets; (2) interest income and interest expense related to consolidated trusts with beneficial interests owned by third parties, which are presented on Farmer Mac's consolidated balance sheets as “Loans held for investment in consolidated trusts, at amortized cost;” and (3) beginning January 1, 2018, the fair value changes of financial derivatives and the corresponding assets and liabilities designated in a fair value hedge relationship. Net effective spread also principally differs from net interest income and net interest yield because it includes: (1) the accrual of income and expense related to the contractual amounts due on financial derivatives that are not designated in hedge relationships; and (2) the net effects of terminations or net settlements on financial derivatives.
# Investment Highlights

## Quality Assets
- 90-Day delinquencies of only **0.08%** across all lines of business
- Cumulative Agricultural Finance Mortgage Loans lifetime losses of only **0.11%**

## Funding Advantage
- Issue at **narrow**, Government Sponsored Enterprise (GSE) spreads to U.S. Treasuries
- E.g., 10-year U.S. Treasury **+0.56%** as of June 30, 2022

## Growth Prospects
- Ag productivity **must double** to meet expected global demand
- 6.0% share of an **~$302 billion** and growing U.S. ag mortgage market

## Operational Efficiency
- Overhead / outstanding business volume **~30 bps**
- **~$700,000 earnings** per employee in 2021

## Quality, Recurring Earnings
- Greater than 90% of total revenues is recurring net effective spread and fees
- Outstanding business volume **CAGR of 10%** (2000 to 2021)

## Strong Returns, Responsible Growth
- Core earnings **ROE ~16%** in 2021 and consistent net effective spread
- Increased quarterly dividend payments for **11 consecutive years**
A Mission-Driven, For-Profit Company

**Our Mission**
Farmer Mac is committed to help build a strong and vital rural America by increasing the availability and affordability of credit for the benefit of American agricultural and rural communities.

**Our Stakeholders**
- Farmers, ranchers and rural communities
- Employees
- Stockholders
- Financial Institutions & Cooperatives
- Congress
- Regulators

**Our Corporate Social Responsibility**
- To help create sustainable, vibrant rural American communities
- We achieve this by conducting our business
  - With absolute integrity
  - By holding ourselves to high ethical standards
  - By promoting a diverse, respectful, and inclusive culture
  - By adopting an Environmental, Social, Governance (ESG) policy statement

- Farmer Mac initially chartered by Congress as an instrumentality of the United States
- Initial public offering
  - First listed on NASDAQ (FAMCU & FAMCL)
- First major charter revision and expansion of authority
  - (direct loan purchases)
- First listed on NYSE (AGM & AGM.A)
- Second major charter revision and expansion of authority
  - (Rural Utilities)
Executive Leadership

Bradford T. Nordholm
President & Chief Executive Officer
- 40+ years of agricultural and energy finance experience
- Joined Farmer Mac in October 2018 from Starwood Energy Group, a leading private investment firm where he served as CEO and later as Vice Chairman
- Prior experience includes CEO of US Central and management positions at National Cooperative and within the Farm Credit System

Aparna Ramesh
Executive Vice President – Chief Financial Officer & Treasurer
- 20+ years of experience in mission-oriented finance roles
- Joined Farmer Mac in January 2020 from Federal Reserve Bank of Boston, where she previously served as Senior Vice President and Chief Financial Officer
- Prior experience includes roles spanning product management, asset-liability management and profitability within Cambridge Savings Bank and M&T Bank

Zachary N. Carpenter
Executive Vice President – Chief Business Officer
- 15+ years of experience in agribusiness banking, capital markets, finance, and corporate strategy
- Joined Farmer Mac in May 2019 from CoBank, where he previously served as Managing Director and Sector Vice President of its Corporate Agribusiness Banking Group
- Prior experience includes Executive Director in CoBank’s Capital Markets division and Vice President in Finance and Corporate Strategy at Goldman Sachs
### U.S. Agricultural Balance Sheet

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investments</td>
<td>$102,907,291</td>
</tr>
<tr>
<td>Inventories</td>
<td>$184,948,454</td>
</tr>
<tr>
<td>Machinery &amp; Vehicles</td>
<td>$289,097,805</td>
</tr>
<tr>
<td>Real Estate</td>
<td>$2,693,379,619</td>
</tr>
<tr>
<td>Nonreal Estate</td>
<td>$152,616,292</td>
</tr>
<tr>
<td>Total</td>
<td>$3,270,333,169</td>
</tr>
</tbody>
</table>

**Ag Real Estate Debt-to-Asset Ratio:** 11.2%

**Farmer Mac Market Share:** 6.0%

**Farmers Mac Debt 2021 Forecast:** $18,159,310

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(1) Source: Farmer Mac 2021 Forecast

(2) Source: Farmer Mac Market Share
Central to a Large Addressable Ag Mortgage Market

Farm Credit System (FCS) (Cooperative GSE)
- Four FCS Banks
- 69 Retail Agricultural Credit Associations

Addressable Agriculture Mortgage Market
$302 Billion
(Farmers & Ranchers)

Non-FCS Ag Lenders
- Insurance Companies
- Ag Banks
- Non-Bank Lenders

FARMER MAC
(FCS Secondary Market GSE)
$18.2 Billion
(6.0% Market Share)
Agricultural Finance Line of Business
(Farm & Ranch and Corporate AgFinance)
Farmer Mac’s Operating Model

Farmer Mac’s Regulatory/Congressional Oversight

- Regulated by the Farm Credit Administration (FCA) through its Office of Secondary Market Oversight (OSMO)
- Congressional oversight through Senate and House Agricultural Committees

Operating model excludes issued agricultural mortgage-backed securities and long-term standby purchase commitment credit protection components of our business.
Growth Opportunities

Broaden Farmer Mac’s Market
Evaluating opportunities not currently being pursued by Farmer Mac
• New lines of business
• New products

Deepen Farmer Mac’s Market
Improving processes and operating practices
• Customer interaction
• Transaction processes
• Existing loan features and pricing

Securitization Update
• Closed $299.4 million agricultural mortgage-backed securitization transaction on Oct. 14, 2021
• On track to close second securitization transaction in August 2022
• Exemplifies Farmer Mac’s core mission to lower costs for the end borrower and improve credit availability in rural America
### Lines of Business

**As of June 30, 2022**

<table>
<thead>
<tr>
<th>Line of Business</th>
<th>Segment</th>
<th>Spread Income Products</th>
<th>Fee Income Products</th>
<th>Volume ($ in billions)</th>
<th>Q2 Net Effective Spread (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Agricultural Finance</strong></td>
<td>Farm &amp; Ranch</td>
<td>Loans • AgVantage Securities • Guaranteed Securities USDA</td>
<td>LTSPCs • Guaranteed Securities Loans Serviced for Others</td>
<td>$16.6</td>
<td>1.05%</td>
</tr>
<tr>
<td></td>
<td>Corporate AgFinance</td>
<td>Loans • AgVantage Securities</td>
<td>Unfunded loan commitments</td>
<td>$1.6</td>
<td>1.87%</td>
</tr>
<tr>
<td><strong>Rural Infrastructure Finance</strong></td>
<td>Rural Utilities</td>
<td>Loans • AgVantage Securities</td>
<td>LTSPCs • Unfunded Commitments Guaranteed Securities</td>
<td>$6.2</td>
<td>0.27%</td>
</tr>
<tr>
<td></td>
<td>Renewable Energy</td>
<td>Loans</td>
<td>Unfunded Loan Commitments</td>
<td>$0.1</td>
<td>1.78%</td>
</tr>
<tr>
<td><strong>Treasury</strong></td>
<td>Funding</td>
<td></td>
<td></td>
<td></td>
<td>0.30%</td>
</tr>
<tr>
<td></td>
<td>Investments</td>
<td></td>
<td></td>
<td>$24.5</td>
<td>0.99%</td>
</tr>
</tbody>
</table>
Agricultural Finance Loan Portfolio Diversification

AS OF JUNE 30, 2022

By Commodity Type

- Crops: 50%
- Livestock: 19%
- Permanent Plantings: 22%
- Part-time Farm: 5%
- Ag. Storage and Processing: 4%

By Geographic Region

- Southwest: 31%
- Mid-South: 16%
- Mid-North: 27%
- Northwest: 13%
- Northeast: 4%
- Southeast: 9%

Agricultural Update

- USDA’s Farm Income and Wealth Statistics forecast estimate $136.1 billion for net cash incomes in 2022, similar to 2021 incomes.
- Farm net income in 2022 could be substantially higher than initially estimated despite higher input costs due to elevated commodity prices across most major ag commodities during much of the year.
Treasury/Investments Segment

AS OF JUNE 30, 2022

Treasury segment includes the financial results of the company’s funding, liquidity, and capital allocation strategies and operations.

Liquidity & Investment Portfolio
Maintain investment portfolio to provide back-up source of liquidity in excess of regulatory requirements
- $5.2 billion as of June 30, 2022
- Investments net effective spread of (0.10)%

Benefits from Asset-Liability Management Strategies
Leverage a funds transfer pricing process to allocate interest expense to each segment, and allocate the costs and benefits of hedging strategies to the Treasury segment

Liquidity Portfolio

- Cash & Equiv. 17.5%
- Guar. by GSEs and U.S. Gov’t Agencies 82.1%
- Asset-Backed Securities 0.4%
Growing, Recurring, High-Quality Earnings

Outstanding Business Volume

![Chart showing outstanding business volume from 2018 to Q2 2022.]

- **2018**: $19.7 billion
- **2019**: $21.1 billion
- **2020**: $21.9 billion
- **2021**: $23.6 billion
- **Q2 2022**: $24.5 billion

6.2% CAGR (2018-2021)

Net Effective Spread & Core Earnings

![Chart showing net effective spread and core earnings from 2018 to YTD Q2 2022.]

- **2018**: $151.2 million in net effective spread
- **2019**: $84.0 million in net effective spread
- **2020**: $168.6 million in net effective spread
- **2021**: $197.0 million in net effective spread
- **YTD Q2 2022**: $118.8 million in net effective spread

13.4% CAGR (2018-2020)

10.6% CAGR (2018-2021)

CAGR is defined as Compound Annual Growth Rate.

Core earnings and net effective spread are non-GAAP measures. For more information on the use of these non-GAAP measures, please see page 3. For a reconciliation of core earnings to GAAP net income attributable to common stockholders and a reconciliation of net effective spread to GAAP net interest income, please refer to pages 27-28 of the Appendix.
Quality Earnings Drives Strong Dividends

Increased quarterly dividend payments for 11 consecutive years

Quarterly Dividend per Common Share

2011 $0.05  2012 $0.10  2013 $0.12  2014 $0.14  2015 $0.16  2016 $0.26  2017 $0.36  2018 $0.58  2019 $0.70  2020 $0.80  2021 $0.88  2022 $0.95
Farmer Mac Uses Proven, Rigorous Underwriting

**Industry-leading credit requirements**
- Total debt coverage ratio of at least 1.25x
- LTVs average 40% to 45% on mortgages purchased
- Minimum borrower net equity of 50%

**Credits are less likely to default**
- Focus on repayment capacity through stressed inputs
- Not a “lender of last resort”
- Farm Credit Administration is our safety and soundness regulator

**Losses less likely even in default**
- Average portfolio LTV of 46% as of June 30, 2022
- Land values need to decline >54% to generate material losses across Agricultural Finance mortgage loans portfolio
- “Stress scenario” losses of 17% to 48%
- 1980s crisis saw land value declines of ~23%\(^{(5)}\)
Credit Consistently Outperforms

90-Day Delinquencies

FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16 FY17 FY18 FY19 FY20 FY21 2Q22

Industry 90-Day Delinquencies
Farmer Mac 90-Day Delinquencies (Agricultural Finance Mortgage Loans Portfolio Only)
Farmer Mac 90-Day Delinquencies (Total Portfolio)

Agricultural Lender Charge-off Rates

Banks Average 0.22%
Farm Credit System Average 0.09%
Farmer Mac Average 0.02%
Historical Credit Losses

Agricultural Finance Mortgage Loans have historical cumulative losses of 0.11%, or less than 1bp per year

- Cumulative Agricultural Finance Mortgage Loan losses of $34 million on $38 billion of cumulative Agricultural Finance Mortgage Loans historical business volume

Farmer Mac has not reported any credit losses to date in any products other than Agricultural Finance Mortgage Loans
Farmer Mac recorded a $1.5 million release in its total allowance for losses in second quarter 2022.

- $1.2 million release from the allowance for the Rural Infrastructure Finance portfolio was primarily due to forecast model parameter updates.

- $0.3 million release to the allowance for the Agricultural Finance portfolio was primarily due to a risk rating upgrade on an AgVantage counterparty.
**Strong and Growing Equity Capital Base**

Statutory Minimum Core Capital defined as total stockholders’ equity less accumulated other comprehensive income.
**Investment Highlights**

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**Funding Advantage**
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- 6.0% share of an **~$302 billion** and growing U.S. ag mortgage market

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  - **~$700,000 earnings** per employee in 2021

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- Greater than 90% of total revenues is recurring net effective spread and fees
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**Strong Returns, Responsible Growth**
- Core earnings **ROE ~16%** in 2021 and consistent net effective spread
- Increased quarterly dividend payments for **11 consecutive years**
Appendix
## Key Company Metrics

($ in thousands, except per share amounts)  

<table>
<thead>
<tr>
<th>Metric</th>
<th>YTD 2022</th>
<th>2021</th>
<th>2020</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Earnings</td>
<td>$56,509</td>
<td>$113,570</td>
<td>$100,612</td>
<td>$93,742</td>
<td>$84,047</td>
</tr>
<tr>
<td>Core Earnings per Diluted Share</td>
<td>$5.20</td>
<td>$10.47</td>
<td>$9.33</td>
<td>$8.70</td>
<td>$7.82</td>
</tr>
<tr>
<td>Net Effective Spread ($)</td>
<td>$118,785</td>
<td>$220,668</td>
<td>$196,956</td>
<td>$168,608</td>
<td>$151,195</td>
</tr>
<tr>
<td>Net Effective Spread (%)</td>
<td>0.98%</td>
<td>0.98%</td>
<td>0.93%</td>
<td>0.91%</td>
<td>0.91%</td>
</tr>
<tr>
<td>Guarantee &amp; Commitment Fees</td>
<td>$9,266</td>
<td>$17,533</td>
<td>$19,150</td>
<td>$21,335</td>
<td>$20,733</td>
</tr>
<tr>
<td>Core Capital Above Statutory Minimum</td>
<td>$506,300</td>
<td>$486,800</td>
<td>$325,400</td>
<td>$196,700</td>
<td>$182,600</td>
</tr>
<tr>
<td>Common Stock Dividends per Share</td>
<td>$1.90</td>
<td>$3.52</td>
<td>$3.20</td>
<td>$2.80</td>
<td>$2.32</td>
</tr>
<tr>
<td>Outstanding Business Volume</td>
<td>$24,479,391</td>
<td>$23,614,463</td>
<td>$21,929,095</td>
<td>$21,117,942</td>
<td>$19,724,525</td>
</tr>
<tr>
<td>90-Day Delinquencies</td>
<td>0.08%</td>
<td>0.20%</td>
<td>0.21%</td>
<td>0.29%</td>
<td>0.14%</td>
</tr>
<tr>
<td>(Charge-Offs)/Recovery</td>
<td>($84)</td>
<td>$1,054</td>
<td>($5,759)</td>
<td>($67)</td>
<td>($17)</td>
</tr>
<tr>
<td>Book Value per Share</td>
<td>$71.99</td>
<td>$66.51</td>
<td>$59.91</td>
<td>$54.80</td>
<td>$49.01</td>
</tr>
<tr>
<td>Core Earnings Return on Equity</td>
<td>16%</td>
<td>16%</td>
<td>16%</td>
<td>17%</td>
<td>17%</td>
</tr>
</tbody>
</table>

- Core earnings, core earnings per share, and net effective spread are non-GAAP measures. For more information on the use of these non-GAAP measures, please see page 3. For a reconciliation of core earnings to GAAP net income attributable to common stockholders and core earnings per share to earnings per common share, and a reconciliation of net effective spread to GAAP net interest income, please refer to pages 27-28 of the Appendix.
- Book Value per Share excludes accumulated other comprehensive income.
# Equity Capital Structure

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
<th>Ticker</th>
<th>Dividend Yield</th>
<th>Shares Outstanding</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Common Stock</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CLASS A VOTING COMMON STOCK</strong></td>
<td>Ownership restricted to non-Farm Credit System financial institutions</td>
<td>AGM.A</td>
<td>4.09%</td>
<td>1.0 million</td>
</tr>
<tr>
<td><strong>CLASS B VOTING COMMON STOCK</strong></td>
<td>Ownership restricted to Farm Credit System institutions</td>
<td>--</td>
<td>--</td>
<td>0.5 million</td>
</tr>
<tr>
<td><strong>CLASS C NON-VOTING COMMON STOCK</strong></td>
<td>No ownership restrictions</td>
<td>AGM</td>
<td>3.89%</td>
<td>9.3 million</td>
</tr>
<tr>
<td><strong>Preferred Stock</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SERIES C FIXED-TO-FLOATING RATE NON-CUMULATIVE PREFERRED STOCK</strong></td>
<td>Option to redeem on any payment date on or after July 18, 2024</td>
<td>AGM.PR.C</td>
<td>6.000%</td>
<td>3.0 million</td>
</tr>
<tr>
<td><strong>SERIES D NON-CUMULATIVE PREFERRED STOCK</strong></td>
<td>Option to redeem on any payment date on or after July 17, 2024</td>
<td>AGM.PR.D</td>
<td>5.700%</td>
<td>4.0 million</td>
</tr>
<tr>
<td><strong>SERIES E NON-CUMULATIVE PREFERRED STOCK</strong></td>
<td>Option to redeem on any payment date on or after July 17, 2025</td>
<td>AGM.PR.E</td>
<td>5.750%</td>
<td>3.2 million</td>
</tr>
<tr>
<td><strong>SERIES F NON-CUMULATIVE PREFERRED STOCK</strong></td>
<td>Option to redeem on any payment date on or after October 17, 2025</td>
<td>AGM.PR.F</td>
<td>5.250%</td>
<td>4.8 million</td>
</tr>
<tr>
<td><strong>SERIES G NON-CUMULATIVE PREFERRED STOCK</strong></td>
<td>Option to redeem on any payment date on or after July 17, 2026</td>
<td>AGM.PR.G</td>
<td>4.875%</td>
<td>5.0 million</td>
</tr>
</tbody>
</table>

- Common stock dividend annualized divided by quarter-end closing price
- Par value of annual dividend for preferred stock
Funding

Finance asset purchases with proceeds of debt issuances
- 30 dealers
- Match-funding provides for stable net effective spread and immaterial interest rate risk

Farmer Mac’s debt securities carry privileges for certain holders
- 20% capital risk weighting
- Eligible collateral for Fed advances
- Legal investments for many federally supervised financial institutions (banks, etc.)

Debt Securities Trade at Narrow Spreads to Comparable Maturity Treasuries

<table>
<thead>
<tr>
<th>MATURITY (YEARS)</th>
<th>3</th>
<th>5</th>
<th>7</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPREAD TO TREASURY (AS OF JUNE 30, 2022)</td>
<td>12 bps</td>
<td>12 bps</td>
<td>35 bps</td>
<td>56 bps</td>
</tr>
</tbody>
</table>
World population is expected to grow to 9.8 billion by 2050

- Arable land per person is expected to decline over 40% from 2005 to 2050

USDA projects a 75% increase in total production and consumption of major field crops in the same period

- 43% increase in world population
- Higher protein diets as incomes in developing countries increase

Productivity would need to nearly double by 2050 to feed the world
## Reconciliation of Net Income to Core Earnings

<table>
<thead>
<tr>
<th>(in thousands)</th>
<th>YTD 2022</th>
<th>Core Earnings by Period Ended</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2021</td>
</tr>
<tr>
<td>Net income attributable to common stockholders</td>
<td>$ 80,150</td>
<td>$ 107,583</td>
</tr>
<tr>
<td>Less reconciling items:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gains/(losses) on undesignated financial derivatives due to fair value changes</td>
<td>4,171</td>
<td>(5,103)</td>
</tr>
<tr>
<td>Gains/(losses) on hedging activities due to fair value changes</td>
<td>7,940</td>
<td>(2,985)</td>
</tr>
<tr>
<td>Unrealized (losses)/gains on trading assets</td>
<td>(191)</td>
<td>(115)</td>
</tr>
<tr>
<td>Amortization of premiums/discounts and deferred gains on assets consolidated at fair value</td>
<td>(42)</td>
<td>130</td>
</tr>
<tr>
<td>Net effects of terminations or net settlements on financial derivatives and hedging activities</td>
<td>18,048</td>
<td>494</td>
</tr>
<tr>
<td>Issuance costs on retirement of preferred stock</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Income tax effect related to reconciling items</td>
<td>(6,285)</td>
<td>1,592</td>
</tr>
<tr>
<td>Sub-total</td>
<td>23,641</td>
<td>(5,987)</td>
</tr>
<tr>
<td>Core earnings</td>
<td>$ 56,509</td>
<td>$ 113,570</td>
</tr>
</tbody>
</table>

- Issuance costs on retirement of preferred stock relates to the write-off of deferred issuance costs as a result of the retirement of Series A Preferred Stock and Series B Preferred Stock.
## Reconciliation of Net Interest Income to Net Effective Spread

<table>
<thead>
<tr>
<th>$ in thousands</th>
<th>YTD 2022</th>
<th>2021</th>
<th>2020</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dollars</td>
<td>Yield</td>
<td>Dollars</td>
<td>Yield</td>
<td>Dollars</td>
</tr>
<tr>
<td>Net interest income/yield</td>
<td>$131,277</td>
<td>1.04%</td>
<td>$220,775</td>
<td>0.94%</td>
<td>$190,588</td>
</tr>
<tr>
<td>Net effects of consolidated trusts</td>
<td>(2,201)</td>
<td>0.02%</td>
<td>(4,864)</td>
<td>0.02%</td>
<td>(6,601)</td>
</tr>
<tr>
<td>Expense related to undesignated financial derivatives</td>
<td>(3,020)</td>
<td>-0.02%</td>
<td>2,841</td>
<td>0.01%</td>
<td>3,468</td>
</tr>
<tr>
<td>Amortization of premiums/discounts on assets consolidated at fair value</td>
<td>49</td>
<td>0.00%</td>
<td>(45)</td>
<td>0.00%</td>
<td>197</td>
</tr>
<tr>
<td>Amortization of losses due to terminations or net settlements on financial derivatives and hedging activities</td>
<td>1,083</td>
<td>0.01%</td>
<td>446</td>
<td>0.00%</td>
<td>120</td>
</tr>
<tr>
<td>Fair Value Changes on fair value hedge relationships</td>
<td>(8,402)</td>
<td>-0.07%</td>
<td>1,515</td>
<td>0.01%</td>
<td>9,184</td>
</tr>
<tr>
<td>Net Effective Spread</td>
<td>$118,786</td>
<td>0.98%</td>
<td>$220,668</td>
<td>0.98%</td>
<td>$196,956</td>
</tr>
</tbody>
</table>

Footnote 2: Farmer’s Mac’s total includes outstanding business volume in the Agricultural Finance line of business. Market share represents Farmer Mac’s percentage of only Farm Sector Real Estate Debt outstanding.

Footnote 3: Eligible ag real estate mortgage market structure shown includes the forecast for outstanding unpaid principal balance of first lien ag mortgage assets for December 31, 2021.


Footnote 5: USDA, National Agricultural Statistics Service (as of August 2015). Historic values are not necessarily predictive of future results or outcomes.

Footnote 6: FDIC Call Report Data & Farm Credit Funding Corp Annual Information Statements – Non-accrual real estate loans and accruing loans that are 90 days or more past due made by commercial and Farm Credit System banks (as of December 2021).

Footnote 7: Delinquencies reflect Farmer Mac’s Agricultural Finance mortgage loan portfolio that are 90 days or more past due, in foreclosure, or in bankruptcy with at least one missed payment, excluding loans performing under either their original loan terms or a court-approved bankruptcy plan.

Footnote 8: Kansas City Federal Reserve Agriculture Finance Databook (https://www.kansascityfed.org/agriculture/agfinance-updates/).

Footnote 9: Banks’ charge-off rate is a percentage of agricultural loan assets.

Footnote 10: Farm Credit Banks Funding Corporation Annual Information Statements; Farm Credit System’s charge-off rate is the percentage of total loans and guarantees.

Footnote 11: Farmer Mac’s charge-off rate is the percentage of total loans and guarantees.
