# The Single-Family Rental Business and Its Securitization 

## Andrea L. Eisfeldt, Ph.D.

Structured Portfolio Management, L.L.C., and, UCLA Anderson School of Management

Stern/Bloomberg Third Annual Fall Symposium: Innovation in Housing Finance, October 2014

## US Homeownership Rate Since 1890



Source: Census Bureau Data (ACS)
2013 US Census reports approximately 133M housing units in US.
At $65.5 \%$ homeownership rate, there are 87 M owned units, 46 M rental units, of which approximately 12 M are single family rentals (mainly owned by small investors).

## Pro Forma: Single Home, Total Asset

| Years out | 0 |  |  | 1 |  |  |  | 2 |  |  | 3 |  | 4 |  |  | 5 | Assumptions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital Invested |  | 189,488 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Revenue |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gross Rent |  |  | \$ |  | 18,949 | \$ |  | 19,517 | \$ |  | 20,103 | \$ |  | 20,706 | \$ | 21,327 | 3.00\% |
| Gross yield (=R/(P+capex) ratio) |  |  |  |  | 10.0\% |  |  | 10.3\% |  |  | 10.6\% |  |  | 10.9\% |  | 11.3\% |  |
| Vacancy and Credit Loss |  |  | \$ |  | (612.80) | \$ |  | (631) | \$ |  | (650) | \$ |  | (670) | \$ | (690) | 3.23\% |
| Effective Gross Rent |  |  | \$ |  | 18,336 | \$ |  | 18,886 | \$ |  | 19,453 | \$ |  | 20,036 | \$ | 20,637 |  |
| Expenses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Property Mgmt and Leasing |  |  | \$ |  | $(1,478)$ | \$ |  | $(1,522)$ | \$ |  | $(1,568)$ | \$ |  | $(1,615)$ | \$ | $(1,664)$ | 7.80\% |
| Expenses linked to home value |  |  | \$ |  | $(6,253)$ | \$ |  | $(6,378)$ | \$ |  | $(6,506)$ | \$ |  | $(6,636)$ | \$ | $(6,769)$ | 2.00\% |
| Total Expenses |  |  | \$ |  | $(7,731)$ | \$ |  | $(7,900)$ | \$ |  | $(8,074)$ | \$ |  | $(8,251)$ | \$ | $(8,432)$ |  |
| Net operating income |  |  |  |  | \$10,605 |  |  | \$10,986 |  |  | \$11,379 |  |  | \$11,785 |  | \$12,205 |  |
| Cap Ex |  |  | \$ |  | $(1,895)$ | \$ |  | $(1,933)$ | \$ |  | $(1,971)$ | \$ |  | $(2,011)$ | \$ | $(2,051)$ | 2.00\% |
| Operating Free Cash Flow |  |  | \$ |  | 8,710 | \$ |  | 9,053 | \$ |  | 9,407 | \$ |  | 9,774 | \$ | 10,154 |  |
| Operating ROA |  |  |  |  | 4.6\% |  |  | 4.8\% |  |  | 5.0\% |  |  | 5.2\% |  | 5.4\% |  |
| Home Value | \$ | 189,488 | \$ |  | 200,857 | \$ |  | 210,900 | \$ |  | 221,445 | \$ |  | 230,302 | \$ | 239,514 |  |
| House Price Appreciation (HPA) |  |  |  |  | 6.0\% |  |  | 5.0\% |  |  | 5.0\% |  |  | 4.0\% |  | 4.0\% | 6\%-4\% |
| Total Return: Operating ROA + HPA |  |  |  |  | 10.6\% |  |  | 9.8\% |  |  | 10.0\% |  |  | 9.2\% |  | 9.4\% |  |
| Total Free Cash Flow |  | $(189,488)$ | \$ |  | 8,710 | \$ |  | 9,053 | \$ |  | 9,407 | \$ |  | 9,774 | \$ | 249,669 |  |



Gross Rental Yields: ‘03, ‘07, '11

Source: Census Bureau Data, hedonic model from Demers and Eisfeldt (2014)

## HPA + Net Rental Yields '11-‘13



Source: Core Logic Data, Demers and Eisfeldt (2014)

## Net Rental Yields vs. HPA ‘09-'14



Source: Core Logic zip level data, Demers and Eisfeldt (2014)

## Securitizations: SFR, CMBS, RMBS

|  | SFR | SB CMBS | RMBS |
| :--- | :--- | :--- | :--- |
| Number of Borrowers | Single Borrower | Single Borrower | Many Borrowers |
| Number of Loans | Single Loan | Single Loan | Many Loans |
| Sequential | Straight Sequential | Straight Sequential | Not Straight Sequential |
| Income | Rental Income | Rental Income | Mortgage Payments |
| Property Maintenance | Managment Co | Management Co | Owners |
| Diversity | Concentrated | Concentrated | Diverse |
| Recovery Rates | Liquidate or Re-stablize Pool | Liquidate or Restabilize | Liquidate defaulted |
| Special Servicing | Many Properties | Few Properties | Many Properties |
|  |  | Deal Metrics |  |
|  | SFR CAH 2014-2 | CMBS BAML |  |
| LTV |  | 2014 IP TriBeCa |  |
| Debt yield $=$ OpFCF/D | $5.7 \%$ | $73.0 \%$ |  |
| DSCR | $2.89 x$ (LIBOR Current), | $3.17 x$ (Fixed Rate) |  |
|  | $\approx 1.67 x$ (if swapped to fixed*) |  |  |
| AAA Credit Enhancement | $47.9 \%$ | $28.4 \%$ |  |

Source: Bond issue data, and Demers and Eisfeldt (2014)
*To compare to the fixed rate CMBS deal, we use $2.89=$ Operating Free Cash Flow (OpFCF) $/(173$ weighted coupon +25 bps current LIBOR), implying OpFCF $=572.22$. The Bloomberg quote on a 5 year LIBOR swap to fixed was about 170 bps in $06 / 14$, implying a DSCR at a fixed rate of $572.22 /(173+170)=1.66$

## SECURITIZATIONS:

## SFR Collateral Heterogeneity

| Transaction Name | Fixed Effect <br> Net Income | Relative HPA <br> Stated vs. Zip | Relative Gross Yield <br> Stated vs. Zip |
| :--- | ---: | ---: | ---: |
|  |  |  |  |
| AH4R 2014-SFR1 | $\$ 2,596$ | $11.4 \%$ | $-0.6 \%$ |
| AH4R 2014-SFR2 | $\$ 2,566$ | $12.8 \%$ | $0.0 \%$ |
| IH 2013-SFR1 | $\$ 2,048$ | $0.7 \%$ | $-0.4 \%$ |
| IH 2014-SFR1 | $\$ 1,450$ | $6.3 \%$ | $-0.9 \%$ |
| IH 2014-SFR2 | $\$ 1,064$ | $7.3 \%$ | $-1.2 \%$ |
| ARP 2014-SFR1 | $\$ 644$ | $3.3 \%$ | $-1.0 \%$ |
| CAH 2014-1 | $\$ 571$ | $7.9 \%$ | $-1.3 \%$ |
| CAH 2014-2 | $\$ 417$ | $3.4 \%$ | $-1.1 \%$ |
| SBY 2014-1 | $\$-$ | $2.8 \%$ | $-1.0 \%$ |

[^0]Fixed Effect Net Income: Regression estimate of incremental annual net income, conditional on BPO and zip code.
 Relative gross yield Stated vs. Zip: Compares gross yield (annual rent divided by brokers price opinion) to zip code-level rent-to-price ratios (Zillow).

## Endnotes

This material is solely for informational purposes and shall not constitute an offer to sell or the solicitation to buy securities. The opinions expressed herein represent the current, good faith views of the author(s) at the time of publication and are provided for limited purposes, are not definitive investment advice, and should not be relied on as such. The information presented in this article has been developed internally and/or obtained from sources believed to be reliable; however, Structured Portfolio Management, L.L.C. and its affiliates (collectively, SPM) do not guarantee the accuracy, adequacy or completeness of such information. Predictions, opinions, and other information contained in this article are subject to change continually and without notice of any kind and may no longer be true after the date indicated. Any forward-looking statements speak only as of the date they are made, and SPM assumes no duty to and does not undertake to update forward-looking statements. Forward-looking statements are subject to numerous assumptions, risks and uncertainties, which change over time. Actual results could differ materially from those anticipated in forward-looking statements. This material is directed exclusively at investment professionals. Any investments to which this material relates are available only to or will be engaged in only with investment professionals.


[^0]:    Source: Bond data, Annex A, and Demers and Eisfeldt (2014)

