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[Published: 20 August 2009](#)

The Optimal Choice for Lenders Facing Defaults: Short Sale, Foreclose, or REO

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[The Journal of Real Estate Finance and Economics](#)

42, 504-521 (2011)

387 Accesses | **32** Citations | [Metrics](#)

Abstract

When mortgage borrowers default and have no desire or ability to keep their property, then loss mitigation involves a sale of the property via one of the following options: (1) the lender allows pre-foreclosure “short sale” by the borrower, (2) the lender institutes the foreclosure process under a notice of default and the property is sold during the process by the borrower, and (3) the lender forecloses on the property, takes title, and sells the property in the market as real estate owned (REO). Sale

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estimation of price and time-on-market effects of “short sales,” foreclosures, and REO options. We find that the short-sale option has the lowest-price discount, but significantly higher costs associated with marketing time. The pattern of price discount and marketing time reverses as we move to a sale while in the process of foreclosure and to a sale with an REO status.

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([1996](#)), Carroll et al. ([1997](#)), Pennington-Cross ([2006](#)), and Clauretie and Daneshvary ([2009](#)).

2. When a borrower is delinquent he or she is said to have “defaulted” on the loan. The term default applies to a breach of any of the terms of the promissory note.
3. In previous studies it is often not clear whether the “foreclosure” status referred to a sale in the process of foreclosure a sale as REO, or both. REO is sometimes referred to as “bank owned.”
4. Ruthless default occurs immediately when the value of the property falls below the value of the mortgage. The value of the mortgage is not the same as the mortgage balance. The former is determined partially with respect to market interest rates and the rate on the mortgage. Because of transactions costs and the fact that the put option may be more valuable if unexercised, few borrowers are expected to exercise the put option ruthlessly.
5. Those interested in determinants of default are directed to Jacoby ([2008](#)), Foster and Van Order ([1984, 1985](#)), Epperson et al. ([1985](#)), Kau et al.

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have found a negative relationship. This negative relationship has been attributed to a "stigma" effect of prolonged TOM (Jud et al. [1996](#)). Taylor ([1999](#)) develops a theoretical model in which potential buyers use TOM as a signal, suspecting that the house is either overpriced or has a possible flaw that was discovered by previous prospective buyers. This gives rise to a potential buyer-herding situation and a reduced asking price over time. A very plausible explanation of the negative relationship is offered by Huang and Palmquist ([2001](#)). In investigating highway-noise effect on price and TOM, they found that market duration has a significant negative impact on the sale price. They concluded that as the TOM increases, sellers adjust their reservation price, resulting in an observed negative price-TOM relationship.

8. For examples of TOM and price endogeneity studies see Sirmans et al. ([1991](#)), Yang and Yavas ([1995](#)), Yavas and Yang ([1995](#)), Knight ([2002](#)), Harding, Knight, and Sirmans ([2003](#)), and Clauretje and Thistle ([2007](#)).
9. The neighborhood variables for more than 60 zip code areas come from the data that are collected and

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the year a broker joined the organization. Broker members, however, are given an identification number when they join the GLVAR. The ID number is assigned chronologically as members join. Given the limitations of this variable we are of the opinion that some information is better than none. Thus, using the assigned identification numbers, we can proxy the extent of the agent's experience in the Las Vegas real estate market. And, of course, some brokers could have easily had some experience previous to joining the GLVAR.

12. We do not have information about the length of time from initial default to the time the property is listed with MLS and the associated carrying cost. The lender most likely burdens carrying cost, such as lost interest, property taxes, hazard insurance, legal expenses, and maintenance and miscellaneous expenses associated with foreclosed and repossessed properties. It is also likely that in case of a short sale the borrower incurs the carrying costs up to time the property is placed on the market. Thereafter, the borrower, while occupying the property, has no incentive to continue paying the carrying costs and, therefore, will be incurred by the lender.

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14. The negative marginal effect of number of bedrooms is also expected and consistent with the finding in the previous literature. Holding other physical characteristics, such as square feet of living area constant, consumers prefer a few large rooms rather than several small rooms.
15. Given that the dependent variable, price, is measured in natural logarithm, the precise percentage effect of the lake view variable on price is calculated as $(\exp^{\left(\beta_{\text{lakeview}}\right)} - 1) = \exp^{\left(0.2966\right)} - 1 = 34.5\%$.
16. See Eggers F. J. and Fouad Moumen, (June [2008](#)), "Trends in Housing Costs: 1987–2005 and the 30-Percent-of-Income Standard," U.S. Department of Housing and Urban Development, Office of Policy Development and Research, at WWW.huduser.org.
17. Such as, the government takeover of Fannie Mae and Freddie Mac.

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Cite this article

Claurette, T.M., Daneshvary, N. The Optimal Choice for Lenders Facing Defaults: Short Sale, Foreclose, or REO. *J Real Estate Finan Econ* **42**, 504-521 (2011).

<https://doi.org/10.1007/s11146-009-9201-3>

Published Issue Date

20 August 2009 May 2011

DOI

<https://doi.org/10.1007/s11146-009-9201-3>

Keywords

Housing prices

Default

Short Sale

Foreclose

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