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# Urban Affairs Review

## **Exploring the Relationship between Housing Downturns and Partisan Elections: Neighborhood-Level Evidence from Maricopa County, Arizona**

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Manuscripts

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3 1 **Exploring the Relationship between Housing Downturns and Partisan Elections:**  
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5 2 **Neighborhood-Level Evidence from Maricopa County, Arizona**  
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10 4 **Abstract**  
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12 5 An understudied outcome of foreclosure crises is how their aftershocks affect partisan elections.  
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14 6 Two hypotheses are that partisan shifts may occur in neighborhoods with concentrated  
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16 7 foreclosures because of 1) declines in turnout among liberal leaning voters or 2) swells of anti-  
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18 8 incumbency among all voters. This research explores these hypotheses in Maricopa County,  
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20 9 Arizona by using econometric modeling to uncover associations among neighborhood  
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22 10 foreclosures, voter turnout, and changes in the Republican vote share between the 2006 and the  
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24 11 2010 Arizona gubernatorial and U.S. Senate elections. Our results show evidence of 1) anti-  
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26 12 incumbent voting behavior and more liberal shifts among neighborhoods harder hit by  
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28 13 foreclosures and 2) conservative shifts in neighborhoods experiencing African American and  
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30 14 Latinx population growth. These findings are suggestive of a link between neighborhood housing  
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32 15 market distress and neighborhood partisan shifts, which in aggregate may shape state and  
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34 16 national policymaking and future neighborhood conditions.  
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42 18 **Keywords:** housing, foreclosures, voting, partisanship  
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## 1 Introduction

2 A diverse body of scholarship reveals how the foreclosure crisis and subsequent Great  
3 Recession affected people and neighborhoods in the U.S. Poorer neighborhoods and  
4 communities of color, particularly segregated African American and Latinx communities that  
5 experienced sudden “greenlining” after decades of redlining, were more affected by foreclosures  
6 (e.g., Anacker, Carr, and Pradhan 2012; Lichtenstein and Weber 2014; Hernandez 2009; Rugh  
7 and Massey 2010; Wyly et al. 2009). Concentrated foreclosures had multiplier effects on  
8 neighborhood quality of life, including declining property values and local public services and  
9 increasing crime (e.g., Immergluck and Smith 2006a, b; Ellen, Laco, and Sharygin 2013; Katz,  
10 Wallace, and Hedberg 2013; Kingsley, Smith, and Price 2009; Kobie and Lee 2011).

11 Less understood is whether and how the recent downturn affected political outcomes.  
12 Research has shown that the Great Recession was fundamentally a housing issue, not simply an  
13 economic or financial crisis, and had its roots in local policy decisions about how, where, and for  
14 whom housing was built (Schafran 2013; Glasgow, Lewis, and Neiman 2012). The scholarly  
15 community has similarly few doubts as to the important role of state and national policy in the  
16 production of foreclosure (Immergluck 2011). But did voters feel similarly? Did living in a high  
17 foreclosure neighborhood impact voting in state and national elections? Or to put it broadly, is  
18 housing an overlooked factor in explaining electoral behavior?

19 In this article, we explore the link between housing distress and electoral politics by  
20 examining the connection between foreclosures and the 2006 and the 2010 Arizona gubernatorial  
21 and U.S. Senate elections in Maricopa County, Arizona—a fast growing Sunbelt region hard hit  
22 by the recent recession. We use econometric methods to investigate two mechanisms that may  
23 link housing downturns to neighborhood political shifts—a decline in turnout among liberal

1 leaning voters and a rise in anti-incumbency among all voters. Although there is no clear  
2 evidence linking a decline in liberal voter turnout to foreclosures, our results show strong  
3 evidence of anti-incumbent voting behavior in neighborhoods harder hit by foreclosures. These  
4 findings suggest that there *is* a relationship between neighborhood housing distress and  
5 neighborhood partisan shifts, which is in line with some, but not all, of the recent literature on  
6 the relationship between the foreclosure crisis and voting patterns (Zonta, Edelman, and  
7 McArthur 2016; Raymond 2017; Healy and Lenz 2017). Our neighborhood-level approach also  
8 reveals the potential of applying the geographic sensibilities of urban studies to questions that  
9 have traditionally fallen within the purview of political science.

10 In the following sections, we first review the limited literature that directly examines the  
11 link between foreclosures and voting patterns. We then describe *potential* linkages between  
12 foreclosures and partisan voting behavior, drawing on literature from a wide variety of fields,  
13 and show how we generated testable hypotheses regarding voter turnout and anti-incumbency.  
14 We then describe our case study site, hypotheses, and methodology and explore the links  
15 between neighborhood foreclosure rates, voter turnout, and the change in the Republican vote  
16 share between the 2006 and the 2010 Arizona gubernatorial and U.S. Senate elections in  
17 Maricopa County.

18 We conclude by examining the implications of this research, including the possibility of a  
19 *housing distress political feedback loop*. We outline a research agenda to further explore  
20 relationships between housing and electoral politics in the U.S., including the need to focus on a  
21 potential transitive link between housing crises and electoral change, such as through  
22 neighborhood demographic shifts.

23

## 1     **The Underexamined Link between Housing and Voting**

2             Research on the effects of the housing crisis on partisan voting behavior has only recently  
3 begun. So far, the findings are inconclusive. National polling data on the political attitudes of the  
4 foreclosed shows no evidence that they disproportionately express particular partisan leanings;  
5 rather, the foreclosed exhibit a mix of “disenfranchisement and disillusionment,” whereby they  
6 seem less likely to vote and believe in the possibility of electoral politics (Martin & Niedt 2015).  
7 This finding dovetails with research on the effects of foreclosure on voter turnout, which shows  
8 depressed turnout among the foreclosed and in neighborhoods hard hit by foreclosure (Hall,  
9 Yoder, and Karandikar 2017; Estrada-Correa and Johnson 2012).

10            A few studies suggest that housing distress may influence partisan voting behavior  
11 (Raymond 2017; Zonta et al. 2016; Healy and Lenz 2017). For instance, Midwestern and  
12 Rustbelt counties with a higher percentage of underwater homes (i.e., owing more than a home is  
13 worth) were more likely to express increased voter support for the Republican presidential  
14 candidate from 2012 to 2016 (Zonta et al. 2016; Raymond 2017). California zip codes with  
15 greater increases in delinquency rates for consumer loans, including mortgages, from 2006 to  
16 2008 were more likely to express increased voter support for the Democratic presidential  
17 candidate from 2004 to 2008 (Healy and Lenz 2017). Yet, the evidence is not unanimous. U.S.  
18 counties that had higher foreclosure rates in between presidential and legislative elections during  
19 the 2000s and 2010s were no more or less likely to vote for incumbents (Hall et al. 2017).

20            A key challenge in understanding links between housing crises and partisan voting  
21 behavior is that the above-cited research remains the exception, not the rule, in both urban  
22 studies and political science, especially when it comes to partisanship. Housing scholars in the  
23 field of urban studies generally focus more on the political economy of housing or housing

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3 1 policy than on elections; when these scholars examine the ballot box, they tend to focus on  
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5 2 housing-specific issues (e.g., Calavita 1992; Gerber and Phillips 2003; Nelson, Uwasu, and  
6  
7 3 Polasky 2007; Nguyen 2007; Gay 2017).<sup>1</sup> Mainstream political science literature is largely silent  
8  
9 4 on how housing might affect voting behavior beyond its distributive component. A scan of four  
10  
11 5 leading texts on polarization and partisanship yields barely a mention of housing (Lewis-Beck,  
12  
13 6 Jacoby, Norpoth, and Weisberg 2011; Green, Palmquist, and Schickler 2002; Nivola and Brady  
14  
15 7 2008; McCarty, Poole, and Rosenthal 2008). Housing is entirely missing from the index of *The*  
16  
17 8 *Oxford Handbook of American Elections and Political Behavior* (Leighley 2010). Housing is  
18  
19 9 incidental in half of the few recent political science studies on foreclosures and voting behavior  
20  
21 10 reviewed above, as these scholars' main interest is on the relationship between the economy and  
22  
23 11 elections (Healy and Lenz 2017; Hall et al. 2017).

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25  
26 12 Knowledge on how housing crises might affect partisan voting behavior within  
27  
28 13 neighborhoods is especially scant, as most of the recent literature on foreclosures and elections  
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30 14 focuses on counties or individuals. Foreclosures do not just befall or spare individual potential  
31  
32 15 voters; they also affect the communities in which voters live (e.g., Immergluck and Smith 2006a,  
33  
34 16 b; Ellen, Lacoë, and Sharygin 2013; Katz, Wallace, and Hedberg 2013; Kingsley, Smith, and  
35  
36 17 Price 2009; Kobie and Lee 2011). Foreclosures are relatively rare events even in hard-hit regions  
37  
38 18 in the throes of a severe recession, but it is reasonable to suppose that their influence multiplies  
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40 19 beyond those they directly affect when they concentrate in particular neighborhoods and not  
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42 20 others.

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45 21 In the absence of clear guidance from either housing or politics scholars on the  
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47 22 relationship between housing downturns and partisan voting behavior, we broadened our search  
48  
49 23 to include the urban studies literatures on the effects of the recent recession and homeowners'

1 civic engagement and the political science literature on voting behavior. These literatures point  
2 to two possible mechanisms that may link housing downturns to partisan voting behavior, which  
3 also are mentioned in Healy and Lenz (2017) and Hall et al. (2017). The first is a link between  
4 foreclosures and declines in turnout among more liberal leaning voters. The second is a link  
5 between foreclosures and swells of anti-incumbency among all voters. These two mechanisms  
6 form the basis for our hypotheses, which we describe and consider in the subsequent sections.

### 8 Declines in Turnout among Liberal Leaning Voters

9 One way that neighborhood foreclosures may relate to partisan shifts is by depressing  
10 voter turnout. Demographic characteristics are strongly linked with partisan preferences (Pew  
11 Research Center 2015). The relationship between race and ethnicity and partisan preference is of  
12 particular interest in this research given the extreme racial inequality in the experience of  
13 foreclosure, as previously discussed. African Americans and Latinxs, traditionally more liberal  
14 or left leaning demographic groups, experienced the foreclosure crisis more intensely than non-  
15 Latinx whites, a traditionally more conservative leaning demographic group (Pew Research  
16 Center 2015; e.g., Anacker et al. 2012; Lichtenstein and Weber 2014; Wyly et al. 2009). Thus,  
17 neighborhood foreclosures may lead to conservative shifts by reducing turnout among African  
18 American and Latinx voters.

19 Declines in voter turnout among African Americans and Latinxs may stem from three  
20 separate outcomes from foreclosures—1) declines in homeownership, 2) heightened economic  
21 adversity and 3) higher residential mobility. First, neighborhood foreclosures may usher in a  
22 conservative shift by reducing the number of more liberal leaning homeowners within the  
23 neighborhood. This shift may happen as more liberal leaning homeowners leave the



1 neighborhood after undergoing foreclosure and fewer liberal leaning homeowners move into the  
2 neighborhood. There is broad consensus that homeownership in the U.S. is associated with  
3 higher rates of voting (e.g., Zavisca and Gerber 2016; Manturuk, Lindblad, and Quercia 2009;  
4 DiPasquale and Glaeser 1999; McCabe 2013; Fischel 2005). Homeowners participate in politics  
5 to a greater extent than renters because of their need to protect what is, for most of them, their  
6 most valuable financial asset—their own home (Fischel 2005). Homeowners also have more of  
7 an incentive to vote to preserve and enhance their neighborhood quality of life, because they stay  
8 put for longer than renters (Cox 1982; Ihrke and Faber 2012). Thus, when neighborhoods with  
9 concentrated foreclosures experience a decrease in their proportion of more liberal leaning  
10 homeowners, their liberal voter turnout may also decrease.

11         Second, economic adversity in the wake of foreclosures may reduce turnout among more  
12 liberal voters and lead to a conservative shift. Economic adversity was common within  
13 neighborhoods with concentrated foreclosures. Families who underwent foreclosure typically  
14 experienced a “perfect storm” of economic disasters, such as job loss, illness, and divorce  
15 (Bowdler, Quercia, and Smith, 2010; Kingsley et al. 2009; Saegert, Fields, and Libman 2009;  
16 Pfeiffer, Wong, Ong, and de la Cruz-Viesca 2017). Data from the National Suburban Survey  
17 found that homeowners experiencing foreclosure between the fall of 2007 and 2010 were more  
18 likely to experience unemployment (Niedt and Martin 2013); unemployment also was more  
19 commonly experienced by African Americans and Latinxs than non-Latinx whites during this  
20 period (U.S. Census 2010a). Homeowners who were able to short sell or hold on to their homes  
21 but were underwater (owed more on their mortgage than their home was worth) also experienced  
22 economic adversity (White 2010). Economic adversity, in turn, is associated with lower voter  
23 turnout (Rosenstone 1982). Thus, neighborhoods with more foreclosures may have more

1 concentrated economic adversity, lower voter turnout among liberal leaning African Americans  
2 and Latinxs, and therefore a more conservative lean in election outcomes.

3 Third, higher residential mobility in the wake of foreclosures also may reduce voter  
4 turnout among more liberal leaning African Americans and Latinxs and lead to a conservative  
5 shift within neighborhoods. Neighborhoods with concentrated foreclosures had higher residential  
6 mobility, particularly those where investors bought and converted former foreclosures to rentals,  
7 as renters are more likely to move (Ihrke and Faber 2012). People who have recently moved are  
8 less likely to vote (Squire, Wolfinger, and Glass 1987; Estrada-Correa and Johnson 2012; Gay  
9 2012). The logistics of registering to vote—one among many “to-dos” for people in the process  
10 of moving—deters recent movers from voting (Squire et al. 1987). The impact on the electorate  
11 falls disproportionately on young adults, who move at the highest rates and also are traditionally  
12 more liberal leaning (Squire et al. 1987; Pew Research Center 2015).

13 Further, foreclosures force involuntary moves on homeowners, which may compound a  
14 household’s stress and barriers to voting (Estrada-Correa and Johnson 2012; Hall et al. 2017;  
15 Martin and Niedt 2015). For example, people who experienced foreclosure were less likely to  
16 vote in Ohio in the 2000s and 2010s, with stronger effects occurring when foreclosures happened  
17 close to election day (Hall et al. 2017). Voters in California zip codes with higher foreclosure  
18 rates were less likely to participate in the 2008 presidential election (Estrada-Correa and Johnson  
19 2012), which suggests that the impacts of foreclosure on voting behavior fall not just on the  
20 relatively small number of people who experience it directly but also those who live in  
21 neighborhoods where foreclosures are spatially concentrated. It follows that neighborhoods with  
22 more foreclosures may have higher residential mobility, lower voter turnout, and a more  
23 conservative lean to election outcomes if movers are disproportionately more liberal leaning.

1 Overall, this diverse body of research on the link between voter turnout and  
2 homeownership, economic adversity, and residential mobility suggests that housing downturns  
3 could lead to a net loss among more liberal leaning votes and a conservative shift within the  
4 hardest hit communities. This conservative shift, under this explanation, occurs because more  
5 liberal leaning votes are lost through African Americans and Latinxs transitioning out of  
6 homeownership and experiencing economic stress than are gained when African Americans and  
7 Latinxs move locally and become renters, because newcomers and renters and economically  
8 stressed people have low rates of voting.

#### 9 10 Rise in Anti-Incumbency among All Voters

11 Another way that neighborhood foreclosures may relate to partisan shifts is by sowing  
12 voters' discontent with political incumbents who support the status quo and fueling support for  
13 political challengers who vow to change the status quo. A recurrent theme in the political science  
14 literature is that economic shocks may influence voters to reject incumbents. Bartels (2013)  
15 cautions against a "romantic" notion of democracy, i.e., that voters rationally choose from  
16 among a set of competing policy programs and select the one that best aligns with societal  
17 interests, or at least their interests. Instead, voters punish or reward incumbents based on the  
18 performance of the economy in a pattern that largely transcends ideology. This tendency is  
19 particularly strong in a two-party system such as the U.S., where aside from (usually marginal)  
20 third party candidates or cases where seats are open, voters' choices are limited to supporting the  
21 status quo (the incumbent) or voting for change (the challenger) (Blendon and Benson 2010).

22 Bartels demonstrates the link between economic growth and support for incumbency  
23 across national contexts, and in a separate analysis uses only the two factors of incumbency and

1 income growth to account for fully 75% of the variation in U.S. presidential election results  
2 dating back to World War II. Seen through this lens, the rightward lurch exemplified by the Tea  
3 Party wave in the 2010 election—a movement captured in our empirical results—was to many  
4 political scientists entirely predictable, despite the befuddlement it evoked from many media  
5 commentators (Blendon and Benson 2010).

6 Whether a relationship between nationwide economic growth and anti-incumbency  
7 translates to anti-incumbency in the wake of neighborhood foreclosures is unclear but at least  
8 plausible. For instance, Bisgaard, Sønderskov, and Dinesen (2016) used disaggregated survey  
9 data to demonstrate that Danish residents' perceptions of the state of the national economy are  
10 strongly related to the level of unemployment that exists within close proximity (80 meters) to  
11 their residence. A body of literature on homeowners' civic engagement finds that dissatisfied  
12 homeowners are more likely to vote than either satisfied homeowners or renters (Holian 2011;  
13 Manturuk et al. 2009). Homeowners are particularly more likely to vote in disadvantaged  
14 neighborhoods, as they may feel more of a need to politically engage in order to protect their  
15 investment (Manturuk et al. 2009). Concentrated foreclosures are associated with declining  
16 property values, increasing crime, and a growing incidence of underwater mortgages (e.g., Ellen,  
17 Lacoë, and Sharygin 2013; Immergluck and Smith, 2006a, 2006b; Katz, Wallace, and Hedberg  
18 2013; Kingsley et al. 2009; Kobie and Lee 2011; Joint Center for Housing Studies 2011). These  
19 conditions are a recipe for higher homeowner discontent and potential anti-incumbent support.  
20 Further, newcomers to the community (e.g., renters moving into former foreclosures converted to  
21 rentals by investors) may have aligned their voting behaviors with longtime residents in the  
22 community in order to fit in if they overcame barriers to voting after a move. This phenomenon,

1 which has been empirically demonstrated in the United Kingdom (MacAllister et al. 2001), could  
2 increase the effect of existing anti-incumbent sentiment in the neighborhood at the polls.

3 Evidence of a link between the recent housing downturn and anti-incumbency is building,  
4 especially in the literature devoted to examining the electoral impacts of foreclosure, as was  
5 previously discussed (Raymond 2017; Healy and Lenz 2017; Zonta et al. 2016). Another recent  
6 study shows that congressional districts where voters felt more positively about their lives were  
7 more likely to re-elect incumbents than districts where voters felt less positively about their lives  
8 in the 2010 U.S. House of Representatives elections (Park and Peterson 2017). These findings  
9 suggest that concentrated foreclosures may be associated with 1) conservative shifts in  
10 neighborhoods when liberals are incumbents or open seats are contested after having been  
11 vacated by a liberal officeholder or 2) liberal shifts in neighborhoods when conservatives are  
12 incumbents or open seats are contested after having been vacated by a conservative officeholder.

### 14 **The 2006 and 2010 Arizona Gubernatorial and U.S. Senate Elections in Maricopa County,** 15 **Arizona**

16 Maricopa County, Arizona is an ideal place to investigate whether neighborhood  
17 foreclosures are associated with neighborhood partisan shifts in state and national elections, and  
18 if so, whether declines in turnout among liberal leaning voters or anti-incumbency play a role.  
19 Maricopa County is a large, fast growing region in the U.S. Sunbelt, defined by its largely  
20 automobile-dependent and suburban form. Untrammelled growth in single-family detached  
21 homes and increases in homeownership during the early to mid 2000s, sometimes on the backs  
22 of risky and subprime loans, contributed to the region becoming one of the epicenters of the  
23 foreclosure crisis (Ross 2011; Schafran 2013; Glasgow et al. 2012). Maricopa County's single

1 family detached housing stock grew about 30% from 2000 to 2006, with some of the most rapid  
2 growth occurring in its outlying “boomburbs,” including Chandler, Gilbert, Glendale, Mesa, and  
3 Peoria (U.S. Census 2000, 2006; Lang and LeFurgy 2007). The county’s homeownership rate  
4 increased from 67% to 68% during this period (U.S. Census 2000, 2006). However, increases in  
5 homeownership were short-lived, as foreclosures flooded Maricopa County’s real estate market  
6 during the late 2000s and the early 2010s. Foreclosures increased dramatically between 2007 and  
7 2008 and peaked in 2009 and 2010, when banks were foreclosing on about 50,000 homes a year.  
8 Foreclosures decelerated rapidly between 2011 and 2012. Overall, about 220,000 homes were  
9 foreclosed on in the county from 2004 through mid-2014 (Information Market 2014). The  
10 county’s homeownership rate plummeted from 68% to 64% from 2006 to 2010 alone (U.S.  
11 Census 2000, 2006, 2010b).

12 Maricopa County is also a microcosm of the political polarization of the U.S. The county  
13 is home to most of the population of Arizona, the state with the nation’s greatest “racial  
14 generation gap,” or demographic gulf between a hyperdiverse, liberal leaning young population  
15 and an overwhelmingly white, conservative leaning elderly population (Pastor, Scoggins, and  
16 Treuhaft 2017). About 41% of Maricopa County residents identified as people of color in 2010, a  
17 one-percentage point increase from 2006 (U.S. Census 2006, 2010b). Maricopa County’s non-  
18 Latinx white population dropped from 60% to 59% from 2006 to 2010 (U.S. Census 2006,  
19 2010b). The proportion of Maricopa County voters registered Republican (conservative) was  
20 43% and 38% during the 2006 and 2010 general elections respectively. The proportion of voters  
21 registered Democrat (liberal) was 30% and 29% respectively, with the balance registered under  
22 third parties or as independents (Arizona Secretary of State 2017).

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3 1 We focus on the 2006 and 2010 Arizona gubernatorial and U.S. Senate elections in this  
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5 2 research. The 2010 gubernatorial election is of particular interest as it was one of many across  
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7 3 the country that cemented the power of the emergent Tea Party, an insurgent political movement  
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9 4 that largely unfolded within the long-established Republican Party and sought to upend its  
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11 5 priorities. Tea Party politicians value freedom from government regulation and reject social  
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13 6 welfare programs and policies that might expand the reach of government, like universal health  
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15 7 care. In January 2009, Jan Brewer, a Tea Party Republican who was serving as Arizona  
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17 8 Secretary of State at the time, succeeded Democratic Governor Janet Napolitano (who handily  
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19 9 beat her Republican opponent Len Munsil in 2006), after President Obama appointed Napolitano  
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21 10 as Secretary of the Department of Homeland Security. In April 2010, Brewer infamously signed  
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23 11 into law SB 1070, which allowed law enforcement to ask for the papers of detainees suspected of  
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25 12 being in the country illegally. In November 2010, Brewer beat a formidable Democratic  
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27 13 candidate with deep political roots, Terry Goddard, who was the Arizona Attorney General, to  
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29 14 earn the right to serve a full-term as governor.

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35 15 The 2006 and 2010 Senate elections were less dramatic. These elections resulted in  
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37 16 victories by a comfortable margin for two Republican incumbents over their Democratic  
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39 17 challengers. In 2006, incumbent Republican Jon Kyl beat Democrat Jim Pederson, a real estate  
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41 18 developer. In 2010, incumbent Republican John McCain beat Democrat Rodney Glassman, a  
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43 19 Tucson City Councilman.

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47 20 Overall, these races present an excellent opportunity to explore whether anti-incumbency  
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49 21 is a mechanism linking housing distress to partisan shifts. Conservatives were incumbents in  
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51 22 both of the studied races in 2010, which was in the wake of the worst foreclosure crisis in the  
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3 1 U.S. since the 1930s. A liberal shift in voting might signal a rise in anti-incumbency in  
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5 2 neighborhoods harder hit by foreclosures.  
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#### 10 4 **Hypotheses**

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12 5 Three hypotheses on the links among neighborhood foreclosure rates, voter turnout, and  
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14 6 partisan shifts emerged from our review of the urban studies and political science literatures.  
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17 7 These hypotheses form the basis for our analysis of the 2006 and 2010 Arizona gubernatorial and  
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19 8 U.S. Senate elections in Maricopa County. Hypotheses 1 and 2 relate to the theory that declines  
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21 9 in turnout among liberal leaning voters in the wake of foreclosures are associated with a  
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24 10 conservative electoral shift. Hypothesis 3 relates to the theory that foreclosures are associated  
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26 11 with a decline in electoral support for incumbents.  
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31 13 Hypothesis 1: Neighborhood foreclosures are correlated with a decline in voter turnout,  
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33 14 particularly among more liberal leaning African Americans and Latinxs, who were more  
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35 15 affected by foreclosure.  
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40 17 Hypothesis 2: Declines in neighborhood turnout among liberal leaning voters, such as  
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42 18 African Americans and Latinxs, are correlated with a conservative electoral shift.  
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47 20 Hypothesis 3: Neighborhood foreclosures are correlated with declines in electoral support  
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49 21 for incumbents, which is signaled by a liberal shift in Maricopa County.  
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## 1     **Data & Methods**

2             This research uses a unique data set on foreclosures, voting outcomes, and neighborhood  
3 conditions to explore the relationships among neighborhood foreclosures, voter turnout, and  
4 partisan shifts in the Maricopa County 2006 and 2010 Arizona gubernatorial and U.S. Senate  
5 races. We use descriptive statistics and ordinary least squares (OLS) regression to investigate  
6 whether declines in turnout among more liberal voters or a rise in anti-incumbency among all  
7 voters were associated with partisan shifts in neighborhoods harder hit by foreclosure.

8             Three sources of data inform this research. The first is property-level data on deeds of  
9 trust or real estate transactions in Maricopa County for the 22 months preceding the 2010 general  
10 election—January 2009 through October 2010 (Information Market 2014). Data was obtained  
11 from Information Market, a company respected by the local real estate industry that aggregates  
12 publicly available information from the Maricopa County Recorder. This source tells us when  
13 and where foreclosures occurred. A property was counted as undergoing foreclosure if one of the  
14 following transactions was filed with the county: trustee’s deed (the most common), deed in lieu  
15 of foreclosure, sheriff’s deed, treasurer’s deed, or completion of forfeiture. About 102,000 homes  
16 in Maricopa County underwent foreclosure during the studied period. Property addresses of  
17 homes that underwent foreclosure were geocoded to 2010 census tracts, the definition of  
18 neighborhoods used in this research. We then divided the number of foreclosures by the number  
19 of homes within each neighborhood (see description of the U.S. Census data source below) and  
20 multiplied by 1,000 to arrive at our primary independent or explanatory variable, *the foreclosure*  
21 *rate* per 1,000 homes for the January 2009 through October 2010 period.

22             The second data source is precinct-level voting returns for the November 2006 and  
23 November 2010 Maricopa County general elections, obtained from the Maricopa County

1 Recorder (Maricopa County Recorder 2006, 2010). The voting data contain information on the  
2 candidates, their political affiliations, number of votes cast per candidate, and voter registration.  
3 There were 1,142 precincts in Maricopa County during the 2006 and 2010 general elections.  
4 There was an average of 1,397 registered voters per precinct in 2006 and 1,623 registered voters  
5 per precinct in 2010.

6 Some precinct boundaries changed from 2006 to 2010. We used Geographic Information  
7 Systems (GIS) to calculate the percent of area for 2006 precincts found within the boundaries of  
8 the 2010 precincts. We then multiplied this percentage by the 2006 voting outcomes to more  
9 accurately represent changes in voting outcomes over time. A downside to our approach is that it  
10 assumes that a precinct's 2006 voting outcomes were evenly distributed across its area, when in  
11 fact there may have been clusters of particular kinds of voting behavior within the precinct.  
12 However, the percent of area approach is a standard way to deal with problems of geographic  
13 boundary changes over time.

14 We then linked precinct boundaries to 2010 census tract boundaries using a crosswalk  
15 developed by the Missouri Census Data Center (MCDC) (Missouri Census Data Center 2017).  
16 We used the 2010 population as a weight for determining the proportion of the precinct  
17 contained within each tract. MCDC relies on the U.S. Census's voting tabulation district (VTD)  
18 category in linking precincts to tracts. VTDs should match exactly with county precincts;  
19 however, administrative errors happen when counties transmit information on their precincts to  
20 the Census Bureau. The Arizona Independent Redistricting Commission found that 32% of  
21 Maricopa County's precincts had issues with incorrect labeling or area (Arizona Independent  
22 Redistricting Commission 2011a). The Commission developed a key matching VTDs to

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2  
3 1 precincts, which we used to correct errors in our analysis (Arizona Independent Redistricting  
4  
5 2 Commission 2011b).

6  
7  
8 3 We created two variables from the finalized voting returns dataset. The first variable  
9  
10 4 measures the *change in the Republican vote share* in a given neighborhood for the Arizona  
11  
12 5 gubernatorial and U.S. Senate races from 2006 to 2010—our main dependent or outcome  
13  
14 6 variable. This variable was calculated by dividing the number of votes cast for the Republican in  
15  
16 7 the race in the neighborhood by the number of votes cast for either the Republican or Democratic  
17  
18 8 candidate in the race in the neighborhood. This value represents the Republican candidate's share  
19  
20 9 of the vote relative to the Democratic candidate for each race in the neighborhood, a value that in  
21  
22 10 principle could range from zero to 100%. We disregarded votes cast for third party candidates.  
23  
24  
25 11 Next, we subtracted the Republican candidate's vote share in 2006 from their vote share in 2010  
26  
27 12 to determine the change in the Republican vote share in the neighborhood from 2006 to 2010.  
28  
29

30  
31 13 The formula is:

$$32$$

$$33 \quad Y_n = \frac{R_{10n}}{R_{10n} + D_{10n}} - \frac{R_{06n}}{R_{06n} + D_{06n}}$$

$$34$$

$$35$$

36  
37 15 where Y is the change in the Republican vote share in neighborhood n, R<sub>10</sub> is the votes cast for  
38  
39 16 the Republican candidate in 2010, D<sub>10</sub> is the votes cast for the Democratic candidate in 2010, R<sub>06</sub>  
40  
41 17 is the votes cast for the Republican candidate in 2006, and D<sub>06</sub> is the votes cast for the  
42  
43 18 Democratic candidate in 2006.  
44

45  
46 19 The second variable created from the voting returns dataset was the *change in voter*  
47  
48 20 *turnout* from 2006 to 2010, an independent variable that may intervene in the relationship  
49  
50 21 between neighborhood foreclosures and voting outcomes. We first calculated the voter turnout  
51  
52 22 for each race within the neighborhood by dividing the total number of votes cast for the race,  
53  
54 23 including for third party or write-in candidates, by the number of registered voters, whether  
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1 registered as Republicans, Democrats, or neither. We then subtracted the voter turnout for the  
2 race in 2006 from the voter turnout for the race in 2010 to arrive at the change in voter turnout  
3 from 2006 to 2010.

4 The final data sources used in this research are the 2000 and 2010 U.S. Census and the  
5 2008 to 2012 American Community Survey five-year estimates (U.S. Census, 2012, 2010b,  
6 2000). We used linear interpolation to arrive at 2006 values for variables derived from this data.  
7 We created our final independent variable, the *change in the percent African American or Latinx*  
8 in the neighborhood from 2006 to 2010 (expressed in terms of percentage points), from this data  
9 set. We also included a handful of control variables associated with voting behavior, including  
10 the neighborhood's percent of seniors (ages 65 and older), non-Latinx whites, adults age 25 and  
11 older with at least a bachelor's degree, homeowners, vacant homes, and families in poverty.  
12 There are two limitations to this data. First, linear interpolation is an imperfect way of estimating  
13 conditions in the middle of two points in time, as it assumes a smooth progression from the  
14 earlier to later period, which may not reflect reality. Second, readers should keep in mind that  
15 our measure of the percent of vacant homes includes seasonal vacancies, which are common in  
16 Maricopa County's many "snowbird" communities where people from colder U.S. states and  
17 Canada (mainly non-Latinx whites) come to spend the winter. Margins of error for the  
18 neighborhood-level estimates for seasonal vacancies from the American Community Survey  
19 were too large to warrant inclusion in our analysis.

20 After joining the three data sets together, we explored our three hypotheses through 1)  
21 descriptive statistics, such as means and bivariate correlations, and 2) ordinary least squares  
22 (OLS) regression modeling. The basic OLS model is specified as follows:

$$Y_n = \beta_0 + \beta_{1n}X_{1n} + \beta_{2n}X_{2n} + e_n$$

1 where  $Y$  is the dependent variable in neighborhood  $n$ ,  $\beta_0$  is the intercept,  $\beta_{1n}$  is the effect of the  
2 explanatory variable,  $X_{2n}$  is a matrix of the control variables with effects captured in a  $\beta_{2n}$  vector,  
3 and  $e_n$  is the error term. OLS regression was an appropriate specification for our analysis, given  
4 the relatively normal distribution of the main dependent variable, the change in the Republican  
5 vote share, and the relatively consistent linear relationships between this variable and our  
6 continuous explanatory and control variables. Diagnostics performed after running the models  
7 revealed no overt issues with omitted variables or outliers and a relatively strong model fit.

8 Results appear in 12 models. The first eight models show whether declines in turnout  
9 among more liberal leaning voters, particularly African Americans and Latinxs, in the wake of  
10 foreclosures were associated with a conservative electoral shift. First, we assess 1) whether  
11 foreclosures were associated with declines in voter turnout and 2) whether these declines were  
12 correlated with declines in the African American or Latinx population (Hypothesis 1). Then, we  
13 examine whether declines in voter turnout and African Americans or Latinxs were associated  
14 with an increase in the Republican vote share (Hypothesis 2). The next two models show  
15 whether foreclosures were associated with declines in electoral support for incumbents, which is  
16 signaled by a decrease in the Republican vote share (Hypothesis 3). The final two models  
17 consider the relative importance of the two theories by examining their independent contribution  
18 to the change in the Republican vote share, controlling for variables associated with the other  
19 theory.

20 It is important to note that we only indirectly investigate Hypotheses 1 and 2, as the  
21 change in neighborhood voter turnout and change in percent African American or Latinx  
22 variables do not directly measure changes in neighborhood African American or Latinx voter  
23 registration or turnout. However, indirectly examining whether a decline in turnout among more

1 liberal leaning voters, like African Americans and Latinxs, is associated with a conservative shift  
2 using these variables is appropriate given that 1) our study is one of the first to explore this  
3 theory, 2) these variables should be associated if this theory holds truth, and 3) data on voter  
4 registration and turnout by race and ethnicity for Maricopa County are not publicly accessible.  
5 Investigating Hypotheses 1 and 2 through measures that more directly capture changes in voter  
6 registration and turnout by race and ethnicity, such as probabilistically linking surnames  
7 appearing on registered voter lists to race and ethnicity categories, or a survey of registered  
8 voters, is an important direction for further research.

9         Three additional notes are in order. First, our final models include a control variable for  
10 place type: location in the central city (City of Phoenix), a newer suburb (majority of housing  
11 built 1970 or later), or an older suburb (the residual) to account for geographic variation in  
12 voting outcomes and foreclosures. We discovered the importance of this variable in examining  
13 the fit of our initial models; place type was an originally omitted variable that subsequently  
14 helped to improve model fit. We also discovered a non-linear relationship between a  
15 neighborhood's percent of non-Latinx whites and voting outcomes, which we accounted for by  
16 transforming that variable into a quadratic. Finally, we initially considered controlling for the  
17 effect of governmental efforts to counteract the contagion effect of foreclosures in the hardest-hit  
18 neighborhoods. However, in light of evidence from a program evaluation of the most ambitious  
19 effort, the federal government's Neighborhood Stabilization Program (NSP) II, which sought to  
20 improve upon its predecessor NSP I, we decided not to. The analysis of 6,300 properties in 19  
21 counties yielded no consistent evidence of positive effects of NSP II expenditures on home  
22 values or sale prices (Spader et al. 2015).

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5 2 **The Relationship between the Foreclosure Crisis and Neighborhood Partisan Shifts in**  
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7  
8 3 **Maricopa County**  
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10 4 This section explores the association between foreclosures and neighborhood partisan  
11  
12 5 shifts in Maricopa County's Arizona gubernatorial and U.S. Senate elections. We first describe  
13  
14 6 our dependent and explanatory variables and examine their correlations. We then consider  
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17 7 support for our hypotheses on the association between neighborhood foreclosures and partisan  
18  
19 8 shifts through econometric modeling.  
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21 9  
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24 10 Descriptive Relationships  
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26 11 The Republican vote share in Maricopa County far exceeded the Democratic vote share  
27  
28 12 in all of the races except for the 2006 Arizona gubernatorial race. Incumbent Republican Senator  
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30  
31 13 John Kyl defeated Democrat challenger Jim Pederson 57 percent to 43 percent in 2006.  
32  
33 14 Incumbent Republican Senator John McCain defeated Democrat challenger Rodney Glassman  
34  
35 15 by a whopping 65 percent to 35 percent in 2010. Recently appointed Republican Governor Jan  
36  
37 16 Brewer defeated Democratic challenger Terry Goddard 57 percent to 43 percent in 2010.  
38  
39  
40 17 However, Republican Len Musil lost to Democrat Janet Napolitano 38 percent to 62 percent in  
41  
42 18 2006.  
43

44 19 Table 1 shows average neighborhood Republican vote shares for the Arizona  
45  
46 20 gubernatorial and U.S. Senate races in 2006 and 2010. The typical neighborhood leaned strongly  
47  
48 21 conservative for the 2010 U.S. Senate Race, somewhat conservative for the 2006 U.S. Senate  
49  
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51 22 and 2010 Arizona gubernatorial races, and strongly liberal for the 2006 Arizona gubernatorial  
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54 23 race, which follows the countywide results. The typical neighborhood experienced a large  
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3 1 increase in the Republican vote share for the Arizona gubernatorial race from 2006 to 2010 (16  
4 percentage points) and a moderate increase for the U.S. Senate race from 2006 to 2010 (seven  
5 percentage points).  
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10 4 Voter turnout declined in Maricopa County from 2006 to 2010. Fifty-seven and 56  
11 percent of neighborhood voters typically participated in the 2006 Arizona gubernatorial and U.S.  
12 Senate elections respectively; only about 50 percent of voters participated in the 2010 Arizona  
13 gubernatorial and U.S. Senate elections, which amounts to about a six-percentage point decline  
14 in voter turnout during this period (see Table 1).  
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22 9 Maricopa County foreclosure rates per 1,000 homes from January 2009 to October 2010  
23 exhibited two distinct geographic patterns. First, foreclosures were widespread; most  
24 communities in the county were affected at least to some extent. The typical neighborhood had  
25 67 homes per 1,000 undergo foreclosure during this period. Second, foreclosures were more  
26 heavily concentrated in particular communities. Higher foreclosure rates were found in west  
27 Phoenix, which is lower income and more heavily Latinx, and north Phoenix, which is higher  
28 income and more heavily white.  
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38 16 Maricopa County, like many urbanized counties in the U.S., is slowly becoming majority  
39 minority. The typical neighborhood had a combined African American and Latinx population of  
40 31 percent in 2006 and 34 percent in 2010. The typical neighborhood experienced a two-  
41 percentage point increase in the African American and Latinx population between 2006 and  
42 2010.  
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49 21 [Table 1 about here]

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51 22 We next examined the bivariate correlations among our outcome variables, the change in  
52 the Republican vote share for the Arizona gubernatorial and U.S. Senate elections, and  
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3 1 explanatory variables—neighborhood foreclosure rate, change in voter turnout, and change in the  
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5 2 percent African American or Latinx (see Table 2). These preliminary findings support our  
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7  
8 3 hypothesis that foreclosures are associated with anti-incumbent behavior, or a liberal electoral  
9  
10 4 shift (Hypothesis 3). The neighborhood foreclosure rate was moderately negatively correlated  
11  
12 5 with the change in the Republican vote share in the Arizona gubernatorial and U.S. Senate  
13  
14 6 elections (-0.35 and -0.37 respectively), meaning that neighborhoods with higher foreclosure  
15  
16 7 rates tended to have more liberal shifts over time.

18  
19 8 The findings offer partial support for our hypotheses that declines in turnout among more  
20  
21 9 liberal leaning voters, such as African Americans or Latinxs, are associated with conservative  
22  
23 10 electoral shifts (Hypothesis 1 and 2). The change in voter turnout and the African American and  
24  
25 11 Latinx population had weaker, though still statistically significant, negative correlations with the  
26  
27 12 change in the Republican vote share in the Arizona gubernatorial and U.S. Senate elections (from  
28  
29 13 -0.20 to -0.22 and -0.14 to -0.16 respectively). Alternatively stated, neighborhoods with greater  
30  
31 14 decreases in voter turnout or African Americans or Latinxs had more conservative shifts over  
32  
33 15 time. These findings align with Hypothesis 2. However, the neighborhood foreclosure rate was  
34  
35 16 not statistically associated with the change in voter turnout or percent African American or  
36  
37 17 Latinx, which does not align with Hypothesis 1.

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42 18 [Table 2 about here]  
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## 46 47 20 Modeling Results 48

49 21 Table 3 explores the associations among the neighborhood foreclosure rate, the change in  
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51 22 voter turnout, the percent African American or Latinx, and the Republican vote share, controlling  
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3 1 for related neighborhood characteristics. Estimates of the effects of the controls are omitted for  
4  
5 2 the sake of brevity but available upon request.  
6

7  
8 3 Our results strongly support Hypothesis 3, which predicts that neighborhood foreclosures  
9  
10 4 may be associated with partisan shifts by sowing voters' discontent with political incumbents  
11  
12 5 who support the status quo and fueling support for political challengers who vow to change the  
13  
14 6 status quo. Republicans were incumbents in both the 2010 Arizona gubernatorial and U.S. Senate  
15  
16 7 elections. Thus, a negative association between the neighborhood foreclosure rate and the change  
17  
18 8 in the Republican vote share would signal a liberal shift in these places and support the  
19  
20 9 hypothesis that foreclosures are correlated with anti-incumbent sentiment. We see evidence of  
21  
22 10 this pattern in our results (see the "Anti-Incumbency (Hypothesis 3)" models). The neighborhood  
23  
24 11 foreclosure rate was negatively associated with the change in the Republican vote share in both  
25  
26 12 races. An increase of one standard deviation in the neighborhood foreclosure rate (+52  
27  
28 13 foreclosures per 1,000 homes) was associated with about a one-percentage point decline in the  
29  
30 14 Republican vote share from 2006 to 2010. This association held even after controlling for the  
31  
32 15 other explanatory variables (see the "Combined" model).  
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38 16 We find mixed support for Hypotheses 1 and 2, which predict that neighborhood  
39  
40 17 foreclosures may be associated with conservative shifts by depressing turnout among more  
41  
42 18 liberal leaning voters, such as African Americans or Latinxs. Neighborhoods that had higher  
43  
44 19 foreclosure rates had slightly lower voter turnouts, after controlling for their African American or  
45  
46 20 Latinx population change, which aligns with Hypothesis 1 (see "Decline in Liberal Voters  
47  
48 21 (Hypothesis 1)" models). An increase of one standard deviation in the neighborhood foreclosure  
49  
50 22 rate was associated with a close to one percentage percent decline in voter turnout from 2006 to  
51  
52 23 2010, though this effect was stronger for the Arizona gubernatorial race than the U.S. Senate  
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3 1 race. However, neighborhoods that experienced greater declines in their percent African  
4  
5 2 American or Latinx had higher voter turnout, which does not align with Hypothesis 1. Stated  
6  
7 3 differently, neighborhoods that experienced greater increases in their percent African American  
8  
9 4 or Latinx had lower voter turnout. An increase of one standard deviation in the change in the  
10  
11 5 percent African American or Latinx (+3 percentage points) was associated with about a one-  
12  
13 6 percentage point decline in voter turnout from 2006 to 2010.

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17 7 Further, our results do not support Hypothesis 2, that declines in turnout among liberal  
18  
19 8 leaning voters, such as African Americans and Latinxs, are associated with a conservative  
20  
21 9 electoral shift (see “Decline in Liberal Voters (Hypothesis 2)” models). Neighborhoods that had  
22  
23 10 greater declines in voter turnout had more of a liberal electoral shift in the U.S. Senate race.  
24  
25 11 Neighborhoods that had greater declines in their percent African American or Latinx had more of  
26  
27 12 a liberal electoral shift in both races, though this correlation was stronger in the Arizona  
28  
29 13 gubernatorial race. Stated differently, neighborhoods that experienced greater increases in their  
30  
31 14 percent African American or Latinx had more of a conservative electoral shift in the Arizona  
32  
33 15 gubernatorial race. A one standard deviation increase in the percent African American or Latinx  
34  
35 16 was associated with a one-percentage point increase in the Republican vote share from 2006 to  
36  
37 17 2010. This effect held after all explanatory variables were controlled (see “Combined” model).

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42 18 Overall, the results suggest that two partisan shifts might have occurred during the  
43  
44 19 foreclosure crisis in Maricopa County: 1) an anti-incumbent shift in neighborhoods hard hit by  
45  
46 20 foreclosure and 2) a conservative shift in neighborhoods with growing African American and  
47  
48 21 Latinx populations.

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50  
51 22 [Table 3 about here]

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3 **1 Conclusion: Partisan Shifts, Electoral Results and a Housing Distress Political Feedback**  
4  
5 **2 Loop?**  
6

7  
8 3 Our research provides evidence of a link between neighborhood housing distress and  
9  
10 4 neighborhood partisan shifts. Neighborhoods harder hit by foreclosures between the 2006 and  
11  
12 5 2010 Arizona gubernatorial and U.S. Senate elections in Maricopa County, Arizona were more  
13  
14 6 likely to exhibit anti-incumbent behavior and a liberal shift in voting, after controlling for a range  
15  
16 7 of associated factors. This finding adds nuance to existing debates within 1) political science on  
17  
18 8 the drivers of anti-incumbency and 2) urban studies on the outcomes of the recent foreclosure  
19  
20 9 crisis and homeowners' civic engagement. We show that voters' experiences in highly leveraged  
21  
22 10 owner-occupied neighborhoods during recessions may be correlated with partisan shifts at the  
23  
24 11 polls, which helps to build understanding of the complex social and environmental factors that  
25  
26 12 contribute to anti-incumbency in state and national elections.  
27  
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30  
31 13 The lack of evidence for changes in the overall electoral outcomes in Maricopa County  
32  
33 14 does not diminish the significance of the voting shifts we were able to document.<sup>2</sup> When  
34  
35 15 combined with recent work from political scientists and housing scholars (Healy and Lenz 2017;  
36  
37 16 Raymond 2017; Zonta et al. 2016), our findings suggest that housing and housing-related  
38  
39 17 economic issues may be overlooked factors in explaining voting behavior. Neighborhood  
40  
41 18 conditions, like concentrated foreclosures, may relate to state and national election voting  
42  
43 19 patterns.  
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46  
47 20 Far more research is needed on the link between housing and urban development and  
48  
49 21 electoral politics. If housing distress affects voting and, in some cases, elections, do voting  
50  
51 22 changes ultimately influence state and local housing and development policy? Does a *housing*  
52  
53 23 *distress political feedback loop* dynamically link a neighborhood's current housing distress to its  
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3 1 future housing distress through state and national partisan shifts (see Figure 1)? Evidence  
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5 2 addressing this question is even thinner than evidence addressing the question of whether  
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7  
8 3 foreclosures affect voting behavior. More research is needed to determine if and how partisan  
9  
10 4 shifts ultimately impact state and national housing policy and local planning, which may prolong  
11  
12 5 or shorten the effects of neighborhood housing crises or shape neighborhoods' vulnerability to  
13  
14  
15 6 future housing crises.

16  
17 7 [Figure 1 about here]

18  
19 8 The line of inquiry that we have pursued in this article is in its infancy. Yet, one  
20  
21 9 implication of cases where anti-incumbent voting behavior fails to sway state and national  
22  
23  
24 10 elections, as occurred in Maricopa County, or fails to occur, as observed by Hall et al. (2017), is  
25  
26 11 a systematic lack of attention paid by incumbents to the concerns of voters living in  
27  
28 12 neighborhoods hard hit by foreclosure, given their apparent lack of incentive to do so in order to  
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30  
31 13 get reelected. Effective solutions to the challenges faced by neighborhoods hard hit by  
32  
33 14 foreclosure have largely failed to bubble up via the electoral process (Martin and Niedt 2015).  
34  
35 15 Advocates for people confronting quality-of-life degradation in such areas may have to focus  
36  
37 16 their attention elsewhere—on nonpartisan local politics or civil society rather than on partisan-  
38  
39  
40 17 driven state or national politics.

41  
42 18 Our research also shows evidence of a partisan shift other than anti-incumbency that  
43  
44 19 might have occurred in Maricopa County during the foreclosure crisis: a conservative shift in  
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46 20 neighborhoods experiencing African American or Latinx population growth. This conservative  
47  
48 21 shift may have had a larger effect on election outcomes than housing distress-related anti-  
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51 22 incumbency, given the large countywide margin of victory experienced by the 2010 Republican  
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54 23 Arizona gubernatorial and U.S. Senate candidates (close to 13 and 31 points over their  
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1 Democratic challengers respectively). The political science literature provides some evidence  
2 that growing racial and ethnic diversity may lead to electoral moves to the right. Hopkins (2012)  
3 found that the migration of people of color to Baton Rouge and Houston following Hurricane  
4 Katrina was linked to a rightward shift in attitudes among white residents of the receiving  
5 communities. Other research in political science also shows a relationship among race,  
6 demographic change, and a shift to more conservative attitudes (Hopkins 2010; Craig and  
7 Richeson 2014; Zingher 2018; Newman, Shah, and Collingwood 2018).<sup>3</sup>

8 Growing racial and ethnic diversity in the Maricopa County neighborhoods trending to  
9 the right during the late 2000s may or may not be related to foreclosures. Possible explanations  
10 include: 1) African American and Latinx homeowners fleeing impacted neighborhoods, 2) new  
11 African American and Latinx renters seeking out single-family rental conversions, or African  
12 Americans and Latinxs' higher birth rates or migration to the Phoenix region (Pfeiffer and Lucio  
13 2015; Rex 2011). Exploring potential multiplier effects of housing distress on neighborhood  
14 voting behavior, including a shift to the right in neighborhoods experiencing growing racial and  
15 ethnic diversity during a foreclosure crisis, is an important task for future scholarship in this area.

16 Research in the U.S. has all too often maintained separate scholarly realms between those  
17 that study electoral politics and voting behavior and those that study housing. This article pushes  
18 forward research into this poorly understood link. In a country where both partisanship and  
19 housing crises seem to be deepening, further conversation between the political science and  
20 urban studies fields is paramount.

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3 1  
45 2 **Notes**

6  
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8 3 1. There is a well-developed literature on non-partisan ballot measures related to housing  
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10 4 production, which centers on the role of interest groups and the broader politics of development  
11  
12 5 (e.g., Calavita 1992; Gerber and Phillips 2003; Nelson, Uwasu, and Polasky 2007; Nguyen  
13  
14 6 2007). For instance, Nelson, Uwasu, and Polasky (2007) found that more affluent and educated  
15  
16 7 communities are more likely to vote on (and for) open space preservation measures. Another  
17  
18 8 example is emerging research on the link between partisan control of state governments and  
19  
20 9 various aspects of housing and urban development (e.g., Gay 2017). This literature is  
21  
22 10 fundamentally based in the analysis of “distributive politics” (Kramon and Posner 2013),  
23  
24 11 lumping housing together with other forms of public spending and welfare benefits, activities  
25  
26 12 long acknowledged to be at the center of partisan divides. For instance, recent work by Gay  
27  
28 13 (2017) suggests that Democratic governors may consider partisan loyalty in decisions about  
29  
30 14 where to allocate low-income housing development subsidies.

31  
32  
33 15 2. The rising tide of the Tea Party movement and McCain’s high visibility as a presidential  
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35 16 candidate in 2008 (and beloved status in Arizona, because of his longtime service to the state)  
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37 17 may have inflated the conservative margins. Neighborhood partisan shifts might be more  
38  
39 18 strongly linked to anti-incumbent election outcomes in state and national races with less rooted  
40  
41 19 or temporarily elevated candidates. Gerrymandering, racial segregation, neighborhood sorting,  
42  
43 20 and voting discrimination may still degrade this link in some places. Gerrymandering and racial  
44  
45 21 segregation may limit the effect of neighborhood partisan shifts on election outcomes by  
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47 22 consolidating voters with particular partisan leanings, especially in national congressional  
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49 23 election outcomes. The sorting of people into neighborhoods based on their political leanings  
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3 1 may also affect partisan concentrations among neighborhoods and limit the effect of  
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5 2 neighborhood partisan shifts on state and national election outcomes (Cho, Gimpel, and Hui  
6  
7 3 2013). Finally, voter suppression laws that restrict minority voting may muffle the magnitude of  
8  
9 4 neighborhood anti-incumbent voting behavior where the incumbent is a Republican or where an  
10  
11 5 open seat was vacated by a Republican.  
12  
13

14 6 3. Most of this literature examines attitudes, not voting patterns, which is part of a larger trend in  
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16 7 the scholarship of ignoring possible links among neighborhood change, housing, and partisan  
17  
18 8 voting. An exception is Newman, Shah, and Collingwood (2018), who found a link between  
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20 9 Latinx demographic growth and voting for Trump, but only after the latter ratcheted up the anti-  
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22 10 Latinx discourse. The demographic change alone did not explain the effect.  
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**Table 1: Descriptive Statistics (n = 902)**

Neighborhood Conditions	Mean	Standard Deviation	Minimum	Maximum
<b>Gubernatorial Race</b>				
Republican Vote Share (2006)	0.36	0.1	0.05	0.59
Republican Vote Share (2010)	0.52	0.15	0.07	0.78
Change in Republican Vote Share	0.16	0.07	-0.05	0.44
Voter Turnout (2006)	0.57	0.11	0.23	0.85
Voter Turnout (2010)	0.51	0.11	0.19	0.85
Change in Voter Turnout	-0.06	0.05	-0.30	0.13
<b>Senate Race</b>				
Republican Vote Share (2006)	0.54	0.12	0.13	0.80
Republican Vote Share (2010)	0.61	0.15	0.13	0.85
Change in Republican Vote Share	0.07	0.05	-0.11	0.36
Voter Turnout (2006)	0.56	0.11	0.22	0.85
Voter Turnout (2010)	0.50	0.11	0.18	0.83
Change in Voter Turnout	-0.06	0.05	-0.30	0.11
<b>Foreclosure Rate</b>				
Foreclosure Rate	67	52	0	497
% African American or Latinx (2006)	0.31	0.25	0.01	0.95
% African American or Latinx (2010)	0.34	0.26	0.00	0.98
Change in % African American or Latinx	0.02	0.03	-0.15	0.13

Source: Maricopa County Recorder (2006, 2010) Information Market (2014); U.S. Census (2012, 2010b, 2000)

153x182mm (300 x 300 DPI)

**Table 2: Bivariate Correlations (n = 902)**

Neighborhood Conditions	Change in Republican Vote Share		Foreclosure Rate	Change in Voter Turnout		Change in % African American or Latinx
	Gubernatorial Race	Senate Race		Gubernatorial Race	Senate Race	
Foreclosure Rate	-0.35**	-0.37**		0.04	0.04	0.04
Change in Voter Turnout (Gubernatorial)	-0.20**	-0.22**	0.04		0.99**	-0.17**
Change in Voter Turnout (Senate)	-0.21**	-0.22**	0.04	0.99**		-0.17**
Change in % African American or Latinx	-0.14**	-0.16**	0.04	-0.17**	-0.17**	

Source: Maricopa County Recorder (2006, 2010) Information Market (2010); U.S. Census (2012, 2010b, 2000)

\*\* p<0.01, \*p<0.05, †p<.10

177x61mm (300 x 300 DPI)

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Table 3. Hypothesis Testing (n = 902)

Neighborhood Conditions	Decline in Liberal Voters (Hypothesis 1)				Decline in Liberal Voters (Hypothesis 2)				Anti-incumbency (Hypothesis 3)		Combined	
	Change in Voter Turnout				Change in Republican Vote Share				Change in Republican Vote Share		Change in Republican Vote Share	
	Gubernatorial Race	Gubernatorial Race	Senate Race	Senate Race	Gubernatorial Race	Gubernatorial Race	Senate Race	Senate Race	Gubernatorial Race	Senate Race	Gubernatorial Race	Senate Race
Foreclosure Rate	-0.0000 (0.0000)	-0.0001* (0.0000)	-0.0000 (0.0000)	-0.0001* (0.0000)								
Change in Voter Turnout (Gubernatorial)					-0.0063 (0.0317)	0.0458 (0.0313)						
Change in Voter Turnout (Senate)							0.0799** (0.0269)	0.0944** (0.0274)				0.0845** (0.0269)
Change in % African American or Latinx		-0.2707** (0.0416)		-0.2761** (0.0419)		0.3179** (0.0391)		0.0881* (0.0346)				0.2815** (0.0392) 0.0498 (0.0345)
Constant	-0.0241 (0.0161)	-0.0139 (0.0158)	-0.0273* (0.0163)	-0.0168 (0.0160)	0.0003 (0.0148)	-0.0031 (0.0143)	-0.0467** (0.0127)	-0.0482** (0.0127)	0.0235 (0.0149)	-0.0286* (0.0128)	0.0137 (0.0146)	-0.0282* (0.0128)
Adjusted R-Squared	0.3837	0.4111	0.3878	0.4156	0.7528	0.7696	0.5712	0.5739	0.7634	0.5870	0.7759	0.5909

Source: Manicopa County Recorder (2009, 2010) Information Market (2014); U.S. Census (2012, 2010b, 2000). Neighborhood characteristics controlled include percent of seniors, non-Latinx whites (squares), adults age 25 and older with at least a bachelor's degree, homeowners, vacant homes, and families in poverty and place-type (central city, older suburbs, or newer suburbs).  
\*\* p<0.01, \*p<0.05, †p<0.10

279x215mm (300 x 300 DPI)

view

