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# The Unintended Consequences of Measure ULA

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## Abstract

We present evidence suggesting that Measure ULA has reduced higher-end real estate transactions in Los Angeles. Since Measure ULA was enacted, the odds of a Los Angeles property selling at a price above its tax threshold have fallen by as much as 50%. In raw terms, this sharp decline occurred across all types of properties, but our strongest evidence suggests it was particularly pronounced for non-single family transactions, which fell by 30-50%. Together the evidence suggests that Measure ULA is neither a true “Mansion Tax,” nor a tax that falls solely on unearned property wealth. The tax does fall on mansions, but it also impedes the trade in commercial, industrial and multifamily property. In doing so it jeopardizes L.A.’s ability to build new housing, revitalize struggling commercial and industrial properties, and raise property tax revenue. All these processes rely on property turnover, and in particular the turnover of higher-priced, non-single family parcels. A tax that reduces this turnover will undermine property tax revenues inside and outside L.A., obstruct local and regional housing production, and slow local revitalization efforts. Thus while Measure ULA has generated visible, substantial and much-needed revenues for affordable housing in Los Angeles, it has also, less visibly, had consequences that *reduce* both housing affordability and fiscal health. These consequences, fortunately, do not need to be part of the measure. We propose some simple amendments that could make Measure ULA fairer, more efficient, and more in line with the spirit in which it was advertised.



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# The Unintended Consequences of Measure ULA

## Highlights

We analyzed 2020-2024 Los Angeles County real estate transaction data through two primary statistical frames, each of which produced directionally consistent findings:

- » One statistical analysis focuses on quantities, and suggests that Measure ULA led to a 30-50% decrease in the number of commercial, industrial and multifamily transactions
- » A second analysis focuses on prices, and suggests that Measure ULA resulted in a 50% reduction in the odds that a transaction occurring will be above ULA's price threshold. This change in odds translates to a 49-55% total reduction in such transactions in the measure's first 20 months.
- » Reductions of that size imply both a loss in new housing and commercial/industrial development, as well as a loss in property tax revenue. Our estimate is that Measure ULA resulted in an initial loss of property tax revenue of approximately \$25 million annually. If the measure continues without reform, these revenue losses will compound.



The advantages that can accompany transfer taxes, however, do hinge on those taxes being well-designed. A poorly designed tax can create incentives for avoidance and strategic behavior, and lead to unintended consequences that render the tax less effective. So how well does ULA work? In April 2024, after the measure had been in place for a year, proponents declared it a success. ULA, they observed, was already raising far more revenue than any other housing program in Los Angeles, and had withstood a number of legal challenges from the real estate industry. “ULA has transformed our city,” one city councilmember said. “We want a rising tide to raise all boats. If folks are going to have multimillion-dollar homes, they ought to also contribute to making sure that everyone has a home.”<sup>2</sup> Similarly, a group of academics concluded a report on ULA by saying, “Los Angeles voters made the right decision when they approved Measure ULA in November 2022. Despite efforts by the real estate industry to undermine its implementation, Measure ULA is already a success.”<sup>3</sup>

We are less sanguine. While ULA has real and visible benefits, there are signs that it also carries considerable, albeit less visible, costs. One sign of those costs is the revenue ULA *hasn't* raised. The measure’s supporters are correct that ULA has raised more money than any other local housing program, but this is a depressingly low bar to clear. It’s also a *different* bar than the one laid out when voters were asked to support the measure. When proponents first placed the “Mansion Tax” on the ballot, they did so estimating that it would raise between \$600 million and \$1.1 billion annually.<sup>4</sup> It has not come close to hitting that mark. According to the city’s ULA Dashboard, from April 2023 to December 2024 the measure actually raised \$480 million, or roughly \$288 million per year — well below what was anticipated.<sup>5</sup>

This shortfall suggests two potential problems:

**Measure ULA appears to be reducing higher-value real estate sales in Los Angeles, particularly sales of properties other than detached single-family homes. A reduction in such sales is troubling, because these sales directly and indirectly drive construction of much-needed new housing, and help create new commercial and manufacturing opportunities for workers. These sales are also disproportionately important to the city’s overall fiscal health, because they largely determine the growth in property tax revenues.** Since ULA began, the number of higher-value sales in the City of Los Angeles has plummeted, and this trend has been driven by a decline in non-single family transactions (i.e., multifamily, commercial, industrial). Tellingly, such sales have *not* fallen by nearly as much in the rest of L.A. County, and neither have sales of under \$5 million in the city of L.A. (which are exempt from Measure ULA). These differential trends within the county strongly suggest that Measure ULA is responsible for the downturn in large transactions within Los Angeles.

2 [https://www.youtube.com/watch?v=\\_zqXDCs21ZM](https://www.youtube.com/watch?v=_zqXDCs21ZM)

3 Peter Dreier, Joan Ling, Scott Cummings, Regina Freer, Manuel Pastor, Ananya Roy, Chris Tilly. “Measuring LA’s Mansion Tax: An Evaluation of Measure ULA’s First Year”. April 2024. <https://www.oxy.edu/about-oxy/community-engagement/uepi/publications/ula-report>

4 Peter Dreier, Joan Ling, Shane Phillips, Scott Cummings, Manuel Pastor, Seva Rodnyansky, and Jackson Loop. 2022. An Analysis of Measure ULA. September. <https://www.lewis.ucla.edu/research/an-analysis-of-measure-ula-a-ballot-measure-to-reform-real-estate-transfer-taxes-in-the-city-of-los-angeles/>

5 <https://housing.lacity.gov/ula-dashboard>





The fact that Measure ULA is falling heavily on sales that *aren't* single-family homes, moreover, suggests the second problem:

**It is inaccurate to think of Measure ULA solely as a “mansion tax” or a tax on unearned property wealth.**

If designed well, real estate transfer taxes can capture some of the windfall gains associated with owning property during booming markets. Someone who bought a house in Los Angeles 10 or 20 years ago, even if they made few improvements to it, could sell it today for a substantial profit. That profit is arguably unearned, and it can be fair if the government captures some of that value through taxation, and spends the revenue on programs that help people not fortunate enough to own property when prices are rising.<sup>7</sup>

Measure ULA, however, does *not* exclusively target such windfall gains. ULA is triggered only by high prices, and high prices do not necessarily signify large profits, unearned gains, or the presence of “mansions.” ULA can and does apply to commercial and industrial land, to properties that have been extensively improved (like new apartment buildings) and to properties that are bankrupt.

Nor does ULA just wrongly tax some proceeds that aren't windfalls. It also fails to tax many proceeds that *are*. A person who buys a house for \$500,000 and sells it for close to \$1 million after several years, and who is able to do so simply because the neighborhood became more desirable even as fewer homes were built, would pay no ULA tax on their windfall profit. Someone who buys a parcel and builds an apartment building, in contrast, is taxed heavily when they sell it, even if the project loses money. Thus the person who only profits from housing scarcity is rewarded, while the person who acts to combat that scarcity is penalized, even if their action yields no profit at all. And while ULA contains an exemption for builders of deed-restricted affordable housing, the exemption is oddly constructed: it is restricted to nonprofit builders of such housing, and thus excludes the class of affordable developers who contribute *most* to the city's deed-restricted housing stock (for-profit LIHTC developers). It also grants nonprofit developers an exemption even when they buy parcels that aren't used for new housing.

In what follows we expand on the points above. In Section II we review some basic principles of taxation. The point we emphasize is that all taxes must balance the goal of more revenue against the unintended consequence of altered behavior. As tax rates get higher, people have more incentive to avoid the tax, and that tax avoidance can have costs not just in lost revenue, but also because the avoidance behavior itself is costly for society.

In Section III we examine transfer taxes in general, and ULA specifically, in light of this point. The academic literature on real estate transfer taxes makes clear that they tend to depress property sales. Measure ULA differs from many other transfer taxes by having higher rates (its lowest rate is 4%) and a smaller base (it taxes nothing beneath \$5 million). The smaller base reduces the likelihood of ULA broadly depressing transactions; a tax that doesn't apply to most transactions will not directly affect them. The higher rate, however, makes ULA *more* likely to reduce transactions within the small segment of transactions it targets. Owners of these properties are more likely to hold them off the market. As we discuss, this reduction in sales is likely to

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<sup>7</sup> This is the primary fairness justification for high transfer taxes. Lower transfer taxes, like L.A.'s 0.45% base rate, have a more straightforward economic logic: it costs the government money to record and enforce deeds and other property contracts, so people who buy and sell property, and benefit from that government activity, should help pay for it.



**ULA’s problems, fortunately, are fixable.** There is no need to jettison Measure ULA. At the end of the report, in Section V, we suggest a range of reforms that would mitigate these unintended consequences while preserving, and arguably even enhancing, ULA’s ability to raise revenue for affordable housing. The most ambitious reform we propose would apply ULA only to properties that have not been reassessed in 20 years; this step would ensure that ULA accomplishes its stated goal taxing people who benefit inordinately from the real estate market, and prevent it from inadvertently taxing people who are building or retrofitting property. Other, simpler reforms could also be pursued, either together or on their own. ULA could exempt all properties that are not single-family homes; doing so would make Measure ULA the “Mansion Tax” that was advertised to voters. Another idea is to exempt any sale that leads to significant new construction. A third idea involves making ULA’s rates marginal, to reduce some of the large behavior changes that depress transactions. A final option, if there is a concern that any of these reforms would be too costly in terms of revenue, is to add additional brackets, and tax some lower-valued transactions at a lower rate. This last reform would bring ULA more in line with transfer taxes elsewhere.



Imagine, though, that we wanted the revenue faster than that. So we raise the rate, and charge \$1 for each crossing. Now we raise \$100 once everyone crosses the road once. The \$1 tax, however, is larger and more noticeable than the 10-cent tax. Some people, as a result, might cross the road less frequently. This would slow our revenue collection, but not necessarily by much. It's hard to avoid crossing the street, and even if a few people cross less, the money will keep flowing.

A bigger problem is that now we're levying a higher tax on everyone, and some people might object. If we wanted to avoid political opposition, but still raise revenue quickly, we could — instead of charging everyone \$1 apiece for crossing — charge the richest two of those people \$50 apiece. Doing so solves the political problem: a tax that falls on only two people is much easier to sell than one that falls on everybody. But it might create two new problems. First is an issue of fairness: these two people might have more money than everyone else, but does this alone make them responsible for all street repair? Unless we have evidence that they benefit more from the street than the 98 other people, or that they are uniquely responsible for the street's problems, placing the entire burden on these two might seem inequitable.

Even if we ignore this fairness concern, we're still left with the second problem: our revenue now depends entirely on just two people. If the high rate makes them change their behavior, our revenue is jeopardized. If just one of these people leaves town, or stays on the sidewalk, our tax revenue is cut in half. If both do, we get no revenue at all.

Maybe that sounds implausible. For the sake of argument, in fact, let's make it maximally implausible, and assume these people are *really* rich, and can easily afford the tax. It turns out that doesn't matter. Taxes don't work simply because people can afford them. Taxes work when people *can't avoid* them. And while in general it's hard to avoid crossing the street — everyone has errands to run — as tax rates rise, actions that might otherwise seem cumbersome or convoluted start to look rational. For example: anyone who can afford \$50 to cross the street and run errands can also afford to pay someone else, not subject to the tax, \$25 to cross the street and run errands for them.<sup>9</sup>

The serious lesson embedded in this silly example is that when a tax rate is high and the base is narrow, behavior changes are both more likely (because the rate is more burdensome, might feel more unfair, and becomes more worthwhile to avoid) and more consequential (because each taxpayer who changes their behavior is a larger share of the total tax base).

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<sup>9</sup> Here's a real world example. New York City levies a progressive income tax on its residents. For most people this tax is unwelcome, but also unavoidable. For the very rich, however, the top rate of 3.9%, even though they can afford it, represents a lot of money — more money, it turns out, than the cost of avoiding it. The most reliable way to avoid the tax is to not legally be a resident of the city. For people who own property and work in the city, that's hard — but not impossible — to do. Anyone who is not sleeping overnight in the city for at least 182 days a year is not, for tax purposes, a New York resident. As such, there is a cottage industry that helps super-rich New Yorkers constantly document their location, and the end of the year often involves a flurry of nights spent on Long Island or in New Jersey. The inconvenience of such behavior pays itself back via millions of dollars of avoided taxes. This behavior may not be admirable, but it is predictable: people with the means to pay high tax bills often also have the means, and motivation, to avoid them. Progressive taxes for this reason must be designed to anticipate and mitigate such avoidance. See James Stewart, 2012. Tax Me if You Can. *The New Yorker*. March 12.



### III. Measure ULA

We can use the ideas above to help think about Measure ULA. Specifically, we can ask if the tax rate is high or low and if the base is broad or narrow. From there we can think about whether the tax is likely to change real estate sales in the city of Los Angeles, and — if it does — whether that change would be good or bad.

We can make the following observations:

#### Measure ULA has high rates and a narrow base

Table 1 compares Measure ULA to a selection of other real estate transfer taxes in U.S. localities. Comparing such taxes can be tricky. Almost every city has a very low base rate designed to cover the cost of recording transactions (L.A.’s again, is 0.45%). Our interest is in the augmented rates designed to raise revenue for other purposes. As such, we ignore the recording-fee base rates for each locality, and compare the augmented rates. Thus we consider ULA’s lowest rate to be the 4% it levies on transactions over \$5 million, and San Francisco’s lowest rate to be 0.71% it levies on transactions of over \$250,000.

When we make this comparison, we see that ULA’s rates are high.<sup>10</sup> ULA has the highest base rate, at 4%, and close to the highest top rate, at 5.5%. Consider that Culver City’s top rate, of 4%, on sales of over \$10 million, is lower than L.A.’s *bottom* rate, which applies to sales over \$5 million. The other places with high top rates, moreover, also have more brackets and/or apply their top rates to higher thresholds. San Francisco has a 5.5% top tax rate, but this rate is the highest of five, and it applies only to sales of over \$25 million. The same is true of New York City’s top rate, of 3.9%. New York City’s tax has six brackets, and the top rate applies only to sales of \$25 million or more. L.A.’s top rate, in contrast, is one of only two brackets, and applies to sales over \$10 million.

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<sup>10</sup> The table compares total transfer tax rates for each locality, e.g., for Los Angeles it adds the ULA rate to the pre-existing transfer tax rate of 0.45%.





of your income was taxed at 11%, and only two dollars were taxed at 22%. Were this not the case, and exceeding \$47,150 changed the rate on all of your income, the income tax would have a notch, and people earning just below the threshold could lose money by getting a raise (even a pretty big raise). These people would have a perverse incentive to keep their taxable income below \$47,151 — by earning less, hiding their income, or working off the books.<sup>12</sup>

Now consider Measure ULA. When the measure was enacted, a property selling for exactly \$5 million paid no ULA taxes, while a property that sold for a dollar more paid \$200,000. That’s a steep notch,<sup>13</sup> and it creates a strong incentive, for owners of properties that would sell at or near the threshold, to keep the price below it (or to not sell at all). Properties likely to sell for substantially more than \$5 million, of course, are unlikely to be affected. But remember that ULA has a second notch near \$10 million. A property selling for \$1 less than \$10 million paid just under \$400,000 in taxes. One selling for a dollar above \$10 million, in contrast, paid \$550,000. In both absolute terms and as a proportion of the sale price, it is smaller than the notch at the lower threshold. But it isn’t small. This leads to our next point.

### Measure ULA’s rates and notches are large enough to change behavior

Transfer taxes have not been extensively studied in the academic literature, but almost every study of them that exists suggests that they reduce the volume of real estate transactions in the jurisdiction that levies them, often by substantial amounts. Most of these studies, moreover, examine taxes with lower rates and smaller notches than ULA. An analysis of Toronto’s transfer tax, for instance, which applied a rate of 1% to transactions over \$400,000, found that it reduced sales volume by 15%.<sup>14</sup>

We reviewed 10 studies of transfer taxes, and all but one found that transfer taxes were associated with a significant reduction in either sales volume or residential mobility (a proxy for sales volume). The lone study that didn’t find such an effect examined a very small increase in an existing transfer tax: Washington, D.C.’s decision to raise its tax by less than one percentage point during a booming market.<sup>15</sup> Overall, the literature suggests that the most common rates — which again, are notably lower than ULA’s — tend to depress sales. *A priori*, this suggests that ULA’s rates may depress sales as well.<sup>16</sup>

12 Here’s how that would work. With marginal rates, an income of \$47,150 implies taxes of about \$5,000 (the first \$11,000 taxed at 10%, and the remainder at 11%), leaving you with an after tax income of \$42,150. If you got a 10% raise, bringing your earnings up to \$51,900, the extra \$4,700 would be taxed at 22% (about \$1,000 in taxes), leaving you with a post-tax income of just under \$45,000. The taxes take a bite, but the raise still leaves you with more money. If tax rates weren’t marginal, moving from \$47,150 to \$51,900 would apply a 22% tax to all your income. Now your post-raise tax bill would be \$11,400 ( $51,900 \times 0.22$ ), leaving your after-tax income at \$40,500: lower than it was before your promotion. You were better off earning less.

13 To put this in perspective: a \$1 increase in revenue triggers a \$200,000 dollar increase in taxes. That \$1 — the dollar that pushes the sale over the ULA threshold — is thus taxed at a marginal rate of 20 million percent.

14 Ben Dachis, Gilles Duranton, Matthew A. Turner. 2012. The effects of land transfer taxes on real estate markets: evidence from a natural experiment in Toronto, *Journal of Economic Geography*.

15 Joel Slemrod, Caroline Weber and Hui Shan. 2017. The Behavioral Response to Housing Transfer Taxes. *Journal of Urban Economics*. 100:137-153.

16 The studies we reviewed: (1) Carolin Fritzsche and Lars Vandrei. 2019. The German real estate transfer tax: Evidence for single-family home transactions. *Regional Science and Urban Economics*. 74:131-143, (2) Wojciech Kopczuk and David Munroe. 2015. “Mansion Tax: The Effect of Transfer Taxes on the Residential Real Estate Market.” *American Economic Journal: Economic Policy*, 7 (2): 214–57. (3) Petkova, Kunka Petkova and Alfons Weichenrieder. 2017. Price and Quantity Effects of the German Real Estate Transfer Tax. *CESifo Working Paper Series No. 6538*. (4) Ben Dachis, Gilles Duranton, Matthew A. Turner. 2012. The effects of land transfer taxes on real



## A Reduced volume of real estate transactions is bad for Los Angeles

Recall from above that when a tax changes behavior, our judgment of whether that change is good or bad will hinge on whether society has too much or too little of the activity in question. In the case of Measure ULA, then, the relevant question is whether the City of Los Angeles has too much or too little property turnover in general, and too much or too little high-value property turnover in particular.

The answer to both questions is almost certainly “too little.” While house flipping and real estate speculation can be problems,<sup>18</sup> it is generally accepted that, as a result of Proposition 13, property in California doesn’t change hands enough. This “lock-in” effect of Proposition 13 has many consequences.<sup>19</sup> It results in housing being misallocated, as empty nesters hold onto homes better used for families,<sup>20</sup> and labor being misallocated, as people become less likely to move to follow jobs. To the extent turnover is necessary for redevelopment, the lock-in effect can also impede the built environment’s adaptation to changes in the economy (e.g., the repurposing of office space). Not least, lack of turnover, especially of higher-value properties, costs local governments (cities, counties and school districts) substantial revenue. It can also prevent housing development. We discuss the latter two issues in more detail below.

## Less turnover means less local property tax revenue

Under existing California law, a property can only be reassessed — brought to full market value for property tax purposes — when it is sold or otherwise turns over (what the law calls “transfer of title”) or when it is substantially improved (what the law calls “new construction”). Properties that do neither in any given year — which is most properties — are taxed based on the assessment they received at the date of their last transfer or substantial improvement. In practice, this can mean that many parcels’ taxable values are decades out of date. Put simply, properties that haven’t sold in a long time are often taxed far below what they are actually worth.

Table 2 shows both the prevalence and scale of this issue by tracking the average change in Net Taxable Value (or “NTV,” the basis of the property tax calculation), before and after reassessment, for 10 years in the City of Los Angeles. Two points are obvious. First, reassessment is rare. In a given year, only about 4% of parcels are reassessed (the first column divided by the second column). Second and more important is that reassessment, when it occurs, is fiscally consequential. On average, reassessment results in a parcel’s NTV almost doubling, which means that property tax revenues associated with that parcel will also almost double.

18 People can reasonably disagree about the harms of house-flipping, but flipping is most problematic when a home in a lower-income neighborhood, particularly one occupied by renters, is sold, rehabbed, and then quickly re-sold at a higher price. Measure ULA cannot realistically deter home flipping of this sort, because it is almost impossible to buy an inexpensive home in a low-income neighborhood and then quickly re-sell it for over \$5 million. Measure ULA could only deter this kind of flipping if its tax threshold was much lower.

19 Nada Wasi and Michelle J White. 2005. “Property Tax Limitations and Mobility: Lock-in Effect of California’s Proposition 13.” *Brookings-Wharton Papers on Urban Affairs*: 59-97.

20 Proposition 13’s impacts on residential mobility have been reduced, but not eliminated, by provisions allowing people over age 55 to carry their base tax rate to a new property when they move.



Table 3 further illustrates the importance of reassessment, using three years of City of L.A. data that show how NTV grows in the city. Columns A and B show that over these three years reassessments have accounted, on average, for about 70% of growth in the city’s NTV (total NTV grew 5.4%, reassessment was responsible for 3.8%).<sup>21</sup>

**Table 3. Growth in Aggregate Net Taxable Value (City of Los Angeles)**

		A	B = MIN (A - 2%, 0)	C = MIN (A - 2% , 0)	D	E = D/C
Roll Year	Aggregate NTV	Total NTV Growth	Min. NTV Growth Attributable to Sales & New Construction (%)	Min. NTV Growth Attributable to Sales & New Construction (\$)	Total NTV of Sales >=\$5mm	% of NTV Growth from Sales >=\$5 million
2021	\$686,892,409,151	4.4%	2.4%	16,506,051,652	11,806,592,635	72%
2022	735,995,357,734	7.1%	5.1%	37,893,197,499	12,909,130,441	34%
2023	778,110,541,909	5.7%	3.7%	28,962,891,714	9,291,162,503	32%
<b>Average</b>		<b>5.4%</b>	<b>3.8%</b>	<b>27,787,380,288</b>	<b>11,335,628,526</b>	<b>41%</b>

**Percent of NTV Growth Attributable to Reassessment (B/A) 70%**

Source: County of Los Angeles. (2023). Assessor Parcel Summary (Rolls 2006 – Present) [Data set]. Los Angeles County Data Portal. <https://data.lacounty.gov>

The table’s next columns show that not all reassessed parcels contribute equally to this growth. Properties that sold for \$5 million or more represented just 4% of the city’s transactions from 2021 to 2023, but these properties, because of their expense, represented 27% of the total transaction value in the city. As a result, they accounted for 41% of the growth in NTV.

In sum, a tiny share of parcels are reassessed each year, and a tiny share of those reassessments account for a disproportionate share of the city’s increase in taxable value. This small share of transactions is also the segment of transactions explicitly targeted by Measure ULA. The fiscal implications for the City of L.A. are obvious; if Measure ULA reduces these transactions, the city could lose property tax revenue. Nor are we alone in observing this tight relationship between real estate sales and property tax revenue. L.A.’s City Controller, in a 2023 revenue report, noted that the two phenomena have a “built-in connection.” “In most years”, the Controller wrote, “more than 50% of property tax growth is due to property transfers, since properties get reappraised upon change of ownership. Hence, high levels of property sales can be a huge driver of property tax growth.”<sup>22</sup>

21 We say “the city’s growth in taxable value” for ease of exposition. As we discuss below, parcels within the City of L.A. are actually taxed by multiple local governments: the City, the County, and L.A. Unified School District, as well as various special districts.

22 Kevin Meija, 2023. Revenue Forecast Report. Los Angeles City Controller’s Office. March. <https://controller.lacity.gov/revenueforecastfy2024.pdf>



Medium density development is not representative of development overall. While it is true that many multifamily *projects* are built in moderate density zones, most new multifamily *units* are not. Projects in moderate density zones account for only 10-20% of multifamily units built each year. Most multifamily units are instead built in high density developments, on high density parcels. These projects almost always begin with a land purchase exceeding \$5 million,<sup>25</sup> and — because of financing practices common to large developments — often end with a sale exceeding \$5 million as well.

That latter sale is what matters most. Investors in large residential projects (often pension funds, university endowments and other institutional sources) typically require that the developer sells the building as soon as it is complete. This requirement subjects those developments to ULA, and means ULA can have a large deterrent effect on them. Developers of these projects, anticipating the tax they will have to pay when the building is complete, will have little choice but to bid less for parcels they need. Specifically, they must reduce their bids by at least much as their anticipated ULA tax burden. That might not sound like much, given that ULA is a roughly 5% tax, but the key here is that the tax is levied on the *total value of the finished development*, and the land cost may only be 20-30% of that total value. The tax, as a result, can force the developer to make an uncompetitive bid.

Table 4 shows an example. Suppose a developer needs a \$6 million site, on which he plans to build a project that he will then sell (per the agreement with his investors) to a long-term owner. He anticipates spending \$18 million to build the project. If he builds in the normal expected profit margin of 20%, then the expected value when he sells the finished building is just over \$31 million. Crucially, *that* number, not the \$6 million, is the denominator the ULA tax is applied to. A 5.5% tax on a \$31 million sale is \$1.7 million. The developer must therefore lower his bid by \$1.7 million, which is almost 30%, not 5%, less than what he could have bid before Measure ULA.

**Table 4.**

Acquisition		6,000,000
Development		20,000,000
<b>Total Project Cost</b>		<b>26,000,000</b>
Required Margin	20%	5,200,000
<b>Required Proceeds from Sale</b>		<b>31,200,000</b>
ULA Tax	5.50%	(1,716,000)
Reduced Residual Land Value		4,284,000
<b>Discount Needed for Feasibility</b>		<b>29%</b>

25 There are instances, of course, where large high density developments begin with the assembly of many lower-density parcels. In 2023, Carmel Partners purchased over 20 single family parcels to build a multifamily development of over 600 units. Such instances are the exception rather than the rule. See Steven Sharp. 2023. Single Family Houses Cleared for 600-plus Apartments. *Urbanize LA*. July 19.





## ULA taxes work as well as windfalls, and bad luck alongside good

Real estate transfer taxes seem most fair when they are levied on transactions whose value comes mostly from a general phenomenon of rising prices, rather than from the effort of individual property owners. Someone who buys a vacant lot in a depressed downtown, leaves it unimproved, and then years later sells to a developer during boom times will profit handsomely, but not through his own industry. It was other people who exerted effort to bring the downtown back to life and make his property more valuable.<sup>28</sup> He profits from their work, not his.

The developer who buys the lot and puts a building on it, conversely, will probably be able to sell it at a profit, but much of that increased value *will* owe to her own industry: she converted vacant land into a building, and she doesn't benefit from the original windfall appreciation (indeed, she is the one who *delivered* the windfall profit to the speculator, when she paid market rate to buy the land from him). That doesn't mean that none of her profit should be taxed, or that luck plays no role in her success,<sup>29</sup> but it does suggest that an ideal tax would draw a distinction between her industry and the previous owner's idleness. A well-designed tax might also account for the risk she took on. Development is never a sure thing: a developer can pour money into a project, complete a building, and nevertheless lose money. When this occurs the *site* becomes more valuable but the *person* (or at least the investment) loses rather than gains.

A tax that draws such distinctions perfectly may be impossible. ULA, however, doesn't attempt to draw these distinctions at all. ULA is triggered by a high price, and treats all high-priced transactions the same. But many properties that transact for large amounts of money yield relatively little in profit, and many properties that change hands for smaller total dollar amounts are highly profitable. Similarly, many parcels that gain value do so because the owner improved them, not because (or only because) an overheated real estate market delivered a windfall.

When a vacant lot is turned into an apartment building and sold, ULA will tax the total value of the improved parcel. When empty office space is repurposed and sold, ULA will tax the full value of that sale. Even situations that appear at first blush to be straightforward windfalls may be deceptive. Consider an example that Measure ULA's proponents cited in the months leading up to the election. The picture they painted, of a huge and opulent hillside estate, seemed to perfectly embody the idea that ULA would tax excessive luxury and unearned profit. Here is how the proponents described it:

*"In 2014 the 14,000 square foot mansion at 1369 Londonderry Place sold for \$6 million. In 2021, it sold again for \$26 million. In just seven years, this 6 bed/10 bath home located in the Hollywood Hills increased in value by \$20 million. If Measure ULA had been in place ... this sale would have generated \$1.4 million ... just 7% of the property's appreciation value gained during that period."<sup>30</sup>*

28 The canonical explication of this logic is Henry George's 1849 book *Progress and Poverty*.

29 If nothing else, prices might continue to rise while she permits and constructs the building, and this would represent good fortune more than good work.

30 Dreier et al. 2022.



be accurate, but regardless of its efficacy the exemption as written has two problems: it doesn't require that any affordable housing actually be built, and it doesn't extend to the largest single source of deed-restricted affordable housing in the city.

With respect to the first issue: Measure ULA only says that if a nonprofit with a "history of developing affordable housing" buys land, that transaction will be exempt from the tax. It does not specify that the nonprofit needs to *build affordable housing* on that land. Pointing this out might seem like nitpicking, and undoubtedly it will be rare for a housing nonprofit to buy land and not build. But rare instances do arise.<sup>34</sup>

The bigger issue is the second one. The buyer exemption is restricted to *nonprofit* organizations that build affordable housing. That clause might sound benign or even redundant, but a signature attribute of America's largest affordable housing program — the Low Income Housing Tax Credit (LIHTC) program — is that it enables both nonprofit and for-profit development of deed-restricted affordable housing. The latter, moreover, reliably creates more affordable housing than the former. LIHTC is the single-largest source of affordable units in the city of Los Angeles, and the majority of those units have been delivered by for-profit developers.<sup>35</sup> Both types of developers, it should be emphasized, deliver below market-rate units. The "profit" in for-profit LIHTC doesn't come from charging higher rents, but what the developer chooses to do with the revenues it collects.<sup>36</sup> The tax status of the developer has *no bearing* on the affordability of the LIHTC housing being delivered. Yet ULA's exemption is denied to the for-profit providers. This denial is puzzling. If the goal of the exemption is to encourage the production of deed-restricted affordable housing, there is no reason not to extend the exemption to all experienced developers of such housing, and to require that the purchased property actually result in new units.

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34 An additional oddity in ULA's exemption rules, though perhaps a more defensible one, is that ULA does not exempt nonprofit housing providers who sell land to finance their operations. This too might seem like a rare occurrence, but it happened multiple times in ULA's first year, and housing nonprofits paid millions to the city in transfer taxes. See Jack Flemming. 2024. Why Us? Housing Nonprofits are Paying Millions in ULA Tax. *Los Angeles Times*. August 24.

35 Exact counts of affordable housing in Los Angeles vary, but Appendix 2.6 of the City of L.A.'s Housing Element suggests that LIHTC is the largest single source of affordable units, accounting for 43% of the total. The Department of Housing and Urban Development maintains a LIHTC database that offers slightly different numbers, but shows that 55% of LIHTC units in Los Angeles were built by for profit developers. Nationwide, about 75-80% of LIHTC units are built by for-profit developers.

36 To elaborate a bit: For-profit LIHTC developers are less likely to reinvest developer fees and more likely to use those fees, and their (restricted) rent payments, as profit. Nonprofits are more likely to reinvest both. Both groups, however, must abide by LIHTC's affordability requirements.



We used the data on the price, time and address of each transaction to first identify sales above the ULA threshold (\$5 million initially, and \$5.15 million 15 months later) and to then identify the subset of those sales that occurred in the City of Los Angeles on or after April 1, 2023 — the transactions that would generally be subject to Measure ULA.

We validated our data by comparing our list of ULA sales to a list of transactions that paid the tax, which we obtained from the City of L.A. via a Public Records Act Request. The two lists were largely identical, although the city list included approximately 98 transactions that the Assessor data did not. We are unsure what caused this discrepancy, because the city data were difficult to check further: unlike the assessor data, the city data do not consistently contain information about the address of the property being sold or its owner; sometimes an entry contains little more than a date and an amount paid.<sup>40</sup> As a check on our main results, we add these unmatched ULA sales to the Assessor data in parts of the analysis we carry out below.

Our main dataset contains about 338,000 transactions, 34% of which (about 115,000) were in the City of L.A.<sup>41</sup> The vast majority of all transactions (276,000) are single-family homes,<sup>42</sup> another 35,000 are multifamily properties and 12,000 are commercial or industrial. The vast majority of sales — 96% — are also not above the ULA threshold. Within Los Angeles, just over two percent of all sales that occurred after ULA went into effect were above the ULA threshold. Of these ULA-eligible transactions, approximately 60% were single family residential, another 18% were multifamily residential, and 20% were commercial or industrial.<sup>43</sup>

Using these data, we can first descriptively examine trends in real estate activity, and then examine them with a statistical analysis called a difference-in-difference regression.

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40 Our confusion about why the two lists don't match is amplified by the fact that some addresses on the City's list appear to be outside the City of L.A. We checked these addresses and their presence cannot be explained by location on parcels that cross city boundaries. It's possible that some transactions are simply not recorded quickly by the assessor, or that some recorded transactions do not make it into Commonwealth's data. If we assume that such errors are equally likely for all jurisdictions, then when we append the City data to the assessor data (as we do in some regressions in the Appendix) we will overcount post-ULA transactions in L.A. relative to the rest of the county, and bias the regression toward a false negative result.

41 Los Angeles has about 38% of the County's housing units, so this proportion seems sensible.

42 We include both fee-simple single family homes as well as individual residential condominium units under the header "single family residential."

43 These proportions differ slightly from those recorded on the ULA dashboard for the period ending December 31, 2024. The city shows a single family share of 57%, a commercial share of 22%, and a multifamily share of 11%. This discrepancy probably has multiple explanations. First, as discussed above, the city includes 98 transactions that do not appear in our data. Second, the city's dashboard categorizes its ULA transactions differently from how the county categorizes transactions. For example, the city categorizes 8% of transactions as "unknown" and another 3% as "vacant," neither of which are categories in the county data. Third, the city and county may classify some multifamily buildings differently: an apartment building with retail on the ground floor may be "commercial" in one data set and "multifamily residential" in another. Fourth, some transactions we record as above the ULA threshold may have received exemptions, if their buyers were affordable housing nonprofits.



Figure 1.

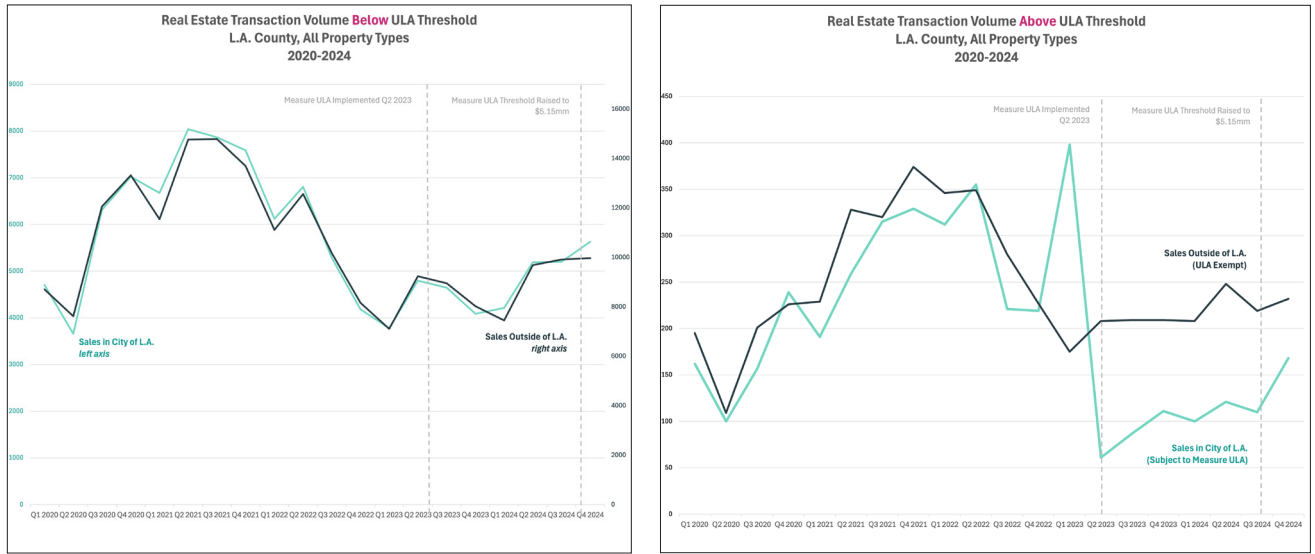
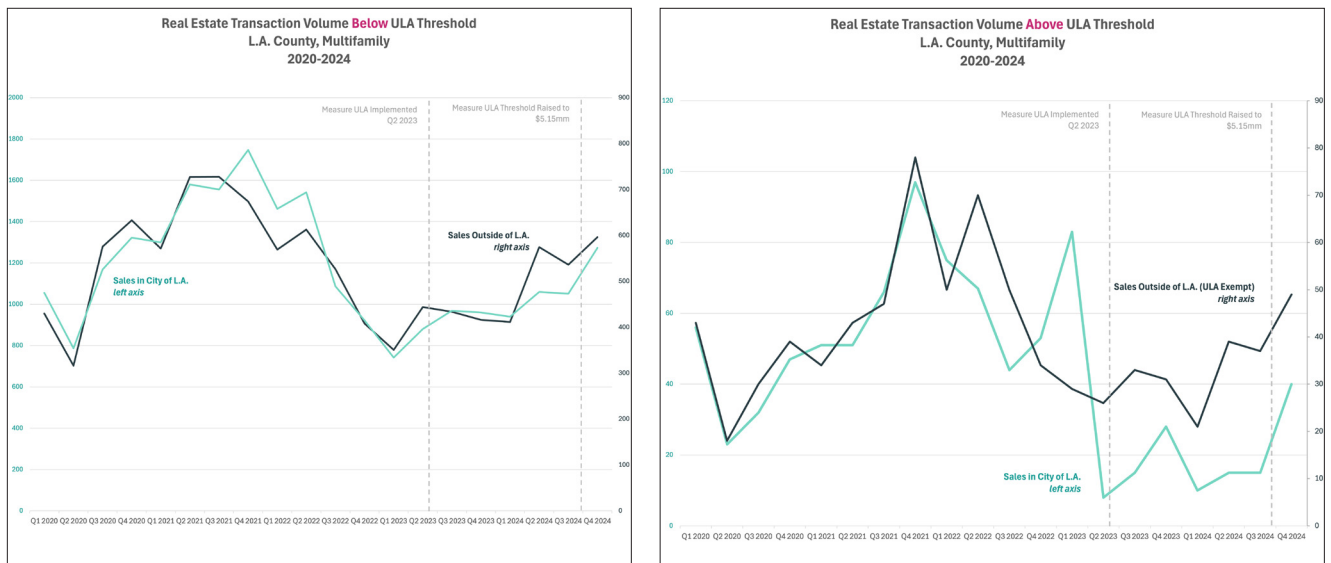


Figure 2.



Source for all figures: L.A. County Assessor Data, provided by Commonwealth Land Title Insurance Company

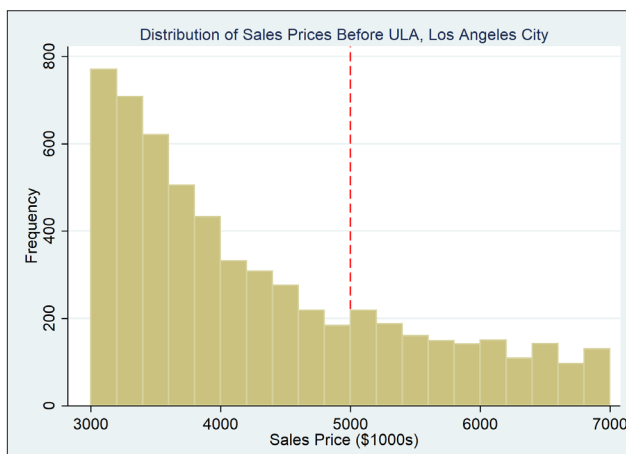




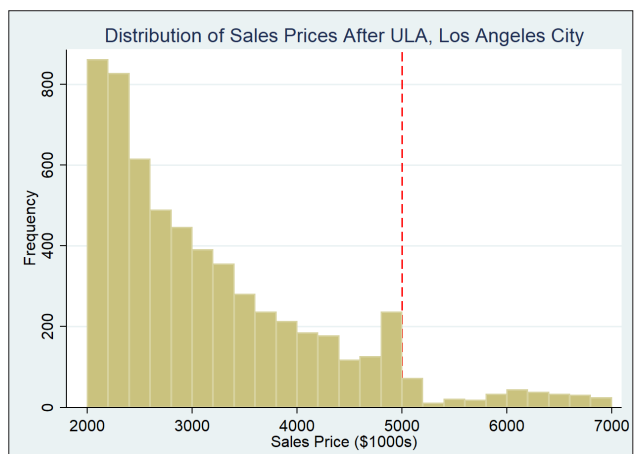
Figures 1–4 show a *temporal* notch: a behavior change when the tax is enacted. A second way to graphically examine patterns around Measure ULA is to look for a *price* notch. We do so in Figures 5–8. These figures plot the absolute number of sales at different price points, before and after ULA's introduction, inside and outside the City of L.A.. Once again a pattern is clear. Prior to Measure ULA, Los Angeles prices show little discontinuity at \$5 million (Figure 5). If anything, sales just above \$5 million are slightly more common than sales just below. After ULA, in contrast, a large notch forms at \$5 million (Figure 6). Tellingly, this notch does *not* form in the remainder of L.A. County (Figures 7 and 8).<sup>44</sup> The implication, again, is that ULA reduced higher end real estate activity in Los Angeles.

**Figures 5-8. Notching at \$5 million after Measure ULA, Only in Los Angeles**

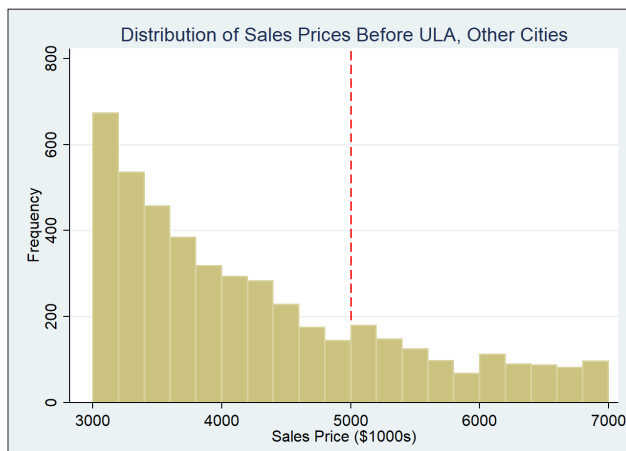
**Figure 5.**



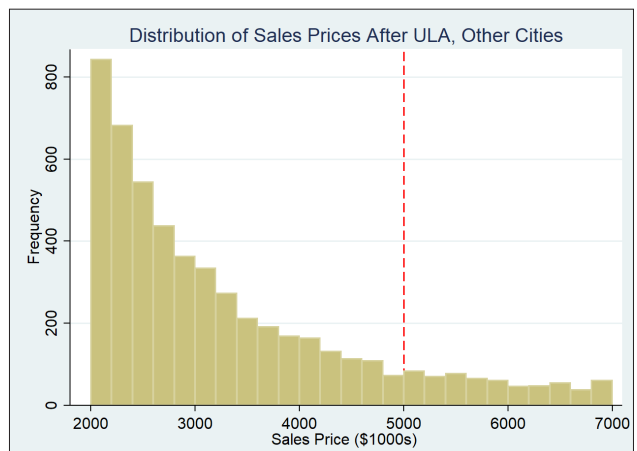
**Figure 6.**



**Figure 7.**



**Figure 8.**



44 In the appendix we show graphs that exhibit a similar, but smaller, pattern around ten million dollars.



## Regression results

We use two sets of regression analyses to examine Measure ULA’s impact. We examine both the *quantity* of transactions and the *price*. The first set of regressions analyzes the total number of real estate transactions at all price points. The second set examines the odds that a given transaction took place at a price above the ULA threshold. These two approaches represent different ways of capturing ULA’s potential impact. Analyzing quantities lets us directly test the idea that ULA is preventing some sales from occurring; we should see the quantity of sales in L.A. decline after its introduction, even after controlling for other factors. Analyzing prices, meanwhile, offers a direct test of tax avoidance (e.g, sellers strategically pricing properties just below the threshold), and an *indirect* test of the quantity effect (if the prevalence of sales above the threshold declines sharply, that may be because such sales are not occurring).

All of our equations are difference-in-difference (DiD) regressions — a form of statistical analysis that seeks to isolate the causal effect of an intervention by comparing the before-and-after change in treated units to the before-and-after change in similar, untreated units ( the “control group”). The disparity between those two changes (the “difference in differences”) can, under some assumptions, be interpreted as the causal effect of the treatment.

The assumptions that make a DiD analysis valid are fourfold: that trends in treated and untreated cities are largely parallel beforehand; that the market does not anticipate the treatment before it occurs; that no other relevant events uniquely affect the the treatment and control groups during this time; and that no spillovers exist between the treatment and control. Figures 1–4 show common trends in real estate transaction activity prior to ULA, meaning the first assumption is satisfied.<sup>48</sup> The second assumption, that the market did not anticipate the tax, is satisfied by the existence of the temporal notch — the rush to sell immediately before ULA. That might seem counterintuitive, but had the market “anticipated” Measure ULA, it would have smoothly folded the expense of the tax into normal business, such that its beginning caused no detectable changes, such as the notch we observe.<sup>49</sup>

The third assumption, that no other events will influence sales, is violated because (as mentioned earlier) two other Los Angeles County cities, Culver City and Santa Monica, introduced real estate transfer taxes during this time. We address this violation in some regressions by dropping those cities, and in others by specifically controlling for their presence.

The fourth assumption, that the effect of the treatment will not spill over onto the control, is more complicated. ULA only applies to higher-priced transactions in Los Angeles, but real estate markets are not bound by municipal borders, and a change in one segment of the market could affect other segments.

We can think of three potential spillovers from Measure ULA. The first involves the temporal notch discussed above. If L.A. owners rush to sell right before ULA goes into effect, the difference in transactions pre- and post-tax may be artificially large in Los Angeles. The second involves tax avoidance. If L.A. owners respond to

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48 While trends inside and outside L.A. were largely similar, there are times, particularly for commercial and industrial space, where higher-end sales in Los Angeles exhibit volatility and their trend intersects with other lines. We correct for this in some models by adding controls for each individual month.

49 See Dachis et al (2012) for more.



**Table 5. Associations With Total Sales by Quarter, Negative Binomial Regressions**

	All Sales	SFR	Comm/Ind	MFR
<b>Treatment</b>	0.01257*** (-13.00)	0.00888*** (-16.98)	0.0851*** (-12.07)	0.0314*** (-30.12)
<b>Post</b>	0.868051701 (-0.3328)	0.8513* (-0.474)	0.86038078 (-0.604)	0.863769163 (-1.123)
<b>Post*Treatment</b>	0.61206107 (-0.8232)	0.642300517 (-0.917)	0.4889* (-1.996)	0.3780*** (-4.698)
<b>N</b>	<b>42</b>	<b>42</b>	<b>42</b>	<b>40</b>

Coefficients are Incident rate Ratios. Z scores in parentheses. \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ .  
 SFR = Single Family Residential. Comm/Ind = Commercial/Industrial. MFR = multifamily residential.

We present four models: one that analyzes the total quantity of sales by quarter, and three subsequent models that separately examine single family, commercial and industrial, and multifamily transactions. We present the coefficients as incident rate ratios (IRRs); subtracting an IRR from one yields the percentage change in transactions.

The first two models are quite similar, which is unsurprising given that single-family transactions are the vast majority of all transactions. In both cases, the Post\*Los Angeles coefficient suggests a decline of 32-36% ( $1 - 0.64 = 0.36$  or 36%), but neither of these coefficients is statistically significant. For reasons we discussed above, this result is largely expected. Recall that across the entire 2020-2024 time period, Los Angeles sales over the ULA price threshold were less than 4% of the sample. The vast majority of transactions, both inside and outside the City of L.A., are for detached single-family homes, and only a tiny share of single-family homes trades for over \$5 million. In this context, even a real impact on total transactions would likely be difficult to detect, so long as the size of that impact is small compared to the overall variability in transaction volume. In technical terms, we would say that these models are underpowered, because the exposure to the treatment is so limited.<sup>52</sup>

The final two models, which examine transactions other than single-family homes, are less likely to suffer from being underpowered. These transactions are particularly likely to be affected by Measure ULA. Countywide, these transactions are only 16% of total sales, but they are almost 50% of sales whose price exceeds the ULA threshold. Similarly, fewer than 2% of single-family home sales transact for over the ULA threshold, compared to over 14% of non-single family sales. In sum, because a much larger share of these transactions occur at or near the ULA threshold, a regression that focuses on them is likely to have sufficient power to detect ULA’s effect. About two-thirds of these non-single family transactions are multifamily residential, another 23% are commercial or industrial, and the remaining are a mixture of institutional, religious, agricultural or government uses.

52 As an analogy, imagine a drug trial featuring 100 people, where only 4 participants were given the drug. In such a trial even a drug that worked well would likely have undetectable effects.



coefficient, “Post \* Los Angeles”, is again the interaction term, and again our coefficient of interest. It captures a unique association between transaction volumes and a situation where the zip code is in Los Angeles after Measure ULA, as opposed to situations where only one or neither of those conditions is met (e.g., a ZIP code is in Glendale after ULA, in Los Angeles before ULA, or in Glendale before ULA).

The results in Table 6, on balance, replicate those in the first two models of Table 5: we see no consistent association between ULA and total transactions. Because these regressions are PPMLs, the coefficients are so-called semi-elasticities, and can be interpreted as percent changes. In Model 1, the Post\*ULA interaction term is positive and statistically significant, and it implies that total transactions in Los Angeles rose 5% as a result of Measure ULA. This result is implausible, both because it contradicts the simpler model above, and because taxes almost never increase the taxed activity. The most likely explanation is that Model 1 does not account for the fact that ZIP codes differ along many dimensions relevant for real estate activity, and that the real estate market, especially for larger transactions, can be volatile, and fluctuate from one month to the next. To account for these factors, all the subsequent models use fixed effects to control for each ZIP code and each year-month combination. Model 3, in addition, controls for location in each specific city in the county.

Once we apply these fixed effects that control for factors unique to months and neighborhoods, the interaction coefficient becomes negative, but also smaller and statistically insignificant. (Because the fixed effects are just more precise measures of location and time period, using them drops the coefficients on “Post” and “Los Angeles” but does not affect the interaction term).<sup>56</sup>

We experimented with a variety of other approaches to this regression, and the results were consistent: in almost every model the interaction term is negative, but in most cases not statistically significant.<sup>57</sup> This result is consistent with what we saw in Table 5. The evidence, in sum, suggests that while ULA may have had a negative impact on total sales, regardless of price, that impact is hard to statistically detect.

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transactions that take place in L.A. in non-LA ZIP codes is 0, and the mean is 0.33.

56 To elaborate a bit: the “Los Angeles” variable is constructed so that a ZIP code is either in the city or not. Controlling for ZIP codes thus removes all variance associated with “Los Angeles” (that variance is instead measured by the ZIP code controls). The regression will therefore not estimate a separate Los Angeles coefficient, and instead absorb it into the ZIP code fixed effect. Similarly, every year-month combination is either before or after ULA, so the time period fixed effects will supersede and preclude a separate “Post” coefficient. All fixed effects are absorbed rather than assigned.

57 Estimating linear (OLS) or Poisson regressions yields negative but statistically insignificant coefficients. If we switch geographies and analyze the total number of sales per city, rather than per ZIP code, Poisson and Quasi-Poisson regressions return a small negative coefficient that is not statistically significant. If we estimate these city regressions as OLS, the coefficient is negative and highly statistically significant, but implausibly large — suggesting that ULA resulted in hundreds of lost transactions per month. We do not consider this credible, and OLS is not the correct functional form for these regressions. Finally, if we use larger aggregates, by analyzing quarters and dividing the county simply into Los Angeles and otherwise, we find similar results.





**Table 7. Associations With Non-Single Family Sales by Month and ZIP Code, PPML Regressions**

	(1)	(2)	(3)	(4)	(5)
<b>Post ULA</b>	-0.169*** (-3.98)				
<b>Los Angeles</b>	-0.167 (-1.36)				
<b>Post ULA * Los Angeles</b>	-0.0768 (-1.52)	-0.147** (-2.92)	-0.0924** (-2.94)	-0.131* (-2.54)	-0.0732* (-2.25)
<b>Zip Code Fixed Effects</b>	No	Yes	Yes	Yes	Yes
<b>Year and Month Fixed Effects</b>	No	Yes	Yes	Yes	Yes
<b>City Fixed Effects</b>	No	No	Yes	No	Yes
<b>Notch Omitted</b>	No	No	No	Yes	Yes
<b>Constant</b>	1.235*** (12.47)	1.630*** (360.66)	1.282*** (394.43)	1.649*** (344.74)	1.296*** (372.79)
<b>N</b>	<b>17212</b>	<b>16543</b>	<b>14799</b>	<b>15112</b>	<b>13445</b>

Standard errors clustered at zip code level. Santa Monica and Culver City zip codes omitted, although results change little if they are included. In models 2-5 fixed effects completely absorb coefficients on Post and Los Angeles. “Notch Omitted” means observations from the quarter prior quarter prior to ULA and first two months of ULA are dropped. t statistics in parentheses, \* p<0.05, \*\*p<0.01, \*\*\* p<0.001,

Regression analyses can sometimes err by detecting false positives — mistaking “noise” for “signal.” Particularly when there are many observations, a difference-in-difference interaction term can return a statistically significant result by chance alone. Were this to occur, we would mistakenly conclude that ULA is having impacts it is not.<sup>59</sup> To examine this possibility, in Table 8 we carry out placebo tests: we estimate regressions with a fictitious Measure ULA that began one year earlier. Nothing of consequence actually happened on April 1, 2022, so if an interaction term based on this placebo ULA returns a statistically significant coefficient, that is a sign that our modelling approach may be flawed. The table shows, however, that the placebos are consistently insignificant, with and without fixed effects, and varying the end date of the sample as well. This gives us some confidence that the results above are robust.<sup>60</sup>

How should we interpret these results? A 7-15% monthly reduction translates, via compounding, into a 30-50% reduction in transaction volume over the time period for which we have data.<sup>61</sup> The regressions suggest, in

59 See for example Marianne Bertrand, Esther Duflo and Sendhil Mullainathan. 2004. How Much Should We Trust Difference in Differences Estimates? *Quarterly Journal of Economics*. February: 249-274.

60 We also re-estimated these regressions as linear (OLS) models. As mentioned in note 56, OLS models are not ideal for this type of data because the sample has many zero values and because the errors are heteroskedastic, but estimating the OLS equation can be useful as a check. The results are similar: the Post\*Los Angeles coefficient is always negative, and statistically significant in the presence of year and ZIP code fixed effects.

61 There are different ways to convert a monthly decline into a cumulative decline, which rely on assumptions about how constant



**Table 9. Associations With Sales Above ULA Thresholds (Odds Ratios)**

<b>Los Angeles</b>	1.821* (2.22)	0.949 (-0.10)	0.876 (-0.25)
<b>Post-ULA</b>	0.976 (-0.49)	0.549*** (-7.13)	0.598*** (-8.83)
<b>Post-ULA * Los Angeles</b>	0.523*** (-11.13)	0.496*** (-12.66)	0.556*** (-10.88)
<b>Transfer Tax Control</b>	No	Yes	Yes
<b>Year Trend</b>	No	Yes	Yes
<b>Zip Code Fixed Effects</b>	No	Yes	Yes
<b>Notch Omitted</b>	No	No	Yes
<b>N</b>	<b>328929</b>	<b>322767</b>	<b>301978</b>

*Exponentiated coefficients; t-statistics in parentheses. All regressions estimated with standard errors clustered at city level. ( L.A. observations clustered by neighborhood). \* p<0.05, \*\* p<0.01, \*\*\* p<0.001.*

*“Transfer tax control” is a dummy variable for Santa Monica or Culver City*

*“Notch Omitted” means observations from the quarter prior to ULA, and first two months after ULA, are dropped.*

*Sample is transactions over \$100,000, 2020-2024.*

In Table 9’s first regression, the relevant coefficient is 0.52, implying that in Los Angeles, relative to the rest of the county, the odds of a transaction being \$5 million or more were about 48% lower after Measure ULA. As with the initial models in Tables 6 and 7, however, one could criticize this model for being overly parsimonious. Model 2 thus adds controls for the ZIP code of each transaction and a variable measuring a linear year trend in sales.<sup>62</sup> The coefficient of interest changes slightly, and suggests that Measure ULA was associated with a 51% reduction in the odds that a Los Angeles property would transact for \$5 million or more.

In Model 3 we drop the months immediately before and after Measure ULA’s introduction. This regression implies that, even controlling for the temporal notch, ULA is associated with a 44% reduction in the odds of a Los Angeles property transaction occurring at \$5 million or more.

Table 10 presents results from eight more versions of this regression. These models differ primarily by including a variety of controls about the parcel being sold: its size, its zoned land use (commercial, residential, etc), and whether it was tax delinquent at the time of sale. In some regressions we restrict the sample to residential properties and control for the number of bedrooms. Two of these regressions, moreover, again omit the temporal notch. The coefficients fluctuate, in part because including some of these additional controls forces us to drop some observations, but the overall result is consistent, and suggests that Measure ULA is associated with a 43-53% reduction in the odds that a sale in Los Angeles will transact at \$5 million or more.

<sup>62</sup> We use a trend variable because the model will not converge with year fixed effects; we address year fixed effects in robustness checks.



**Table 11. Placebo Tests for Sales Above ULA Threshold**

	(1)	(2)	(3)	(4)
<b>Placebo Post-ULA</b>	0.250*** (6.23)	0.250*** (6.23)	0.248*** (5.50)	0.297*** (6.91)
<b>Los Angeles</b>	0.501*** (16.50)	0.501*** (16.50)	0.501*** (16.50)	-0.162* (-2.15)
<b>Placebo * Los Angeles</b>	0.0826 (1.42)	0.0826 (1.42)	0.0610 (0.93)	0.0483 (0.78)
<b>Zip Code Fixed Effects</b>	No	No	No	Yes
<b>End Date</b>	Jan 1 2023	Jan 1 2023	Nov 1 2022	Jan 1 2023
<b>N</b>	<b>218803</b>	<b>218803</b>	<b>206016</b>	<b>213478</b>

*t* statistics in parentheses, \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ .

Odds are not probabilities, but they can be converted into probabilities. When we do this, we see that the regression results (using an average coefficient of about 0.5) suggest that Measure ULA reduced the incidence of higher-value sales by 49-55%.<sup>64</sup>

This loss of higher-end sales will have fiscal implication. If we assume that most of this reduction is the result of lost transactions, rather than transactions pushed just below the price threshold,<sup>65</sup> this result implies not just a sharp decline in sales activity but a sizeable loss in property tax revenue. We can use the county tax roll data we presented in Tables 2 and 3 to explain. Recall that properties in the City of Los Angeles almost double in Net Taxable Value (NTV) when reassessed. Also recall that from 2021 to 2023, sales over \$5 million contributed disproportionately to the growth in NTV, contributing about \$11.3 billion to the property tax base. If half of those transactions had never occurred, roughly \$5.6 billion in property value would remain at its lower, pre sale valuation. That lower property tax base translates to an estimated \$25 million per year in forgone property tax growth — money that schools, city services, and other critical programs would have otherwise received. Slowed revenue growth, moreover, compounds. If ULA continues to reduce the probability of higher-end transactions occurring in subsequent years, within a decade its annual cost in lost property tax revenues could total in the low hundreds of millions.<sup>66</sup>

64 Converting a change in odds to a change in probability involves knowing the prior probability (in this case the share of transactions that were above the threshold before ULA) and then (optionally) accounting for any change in volume that occurred when the odds changed. These calculations yield the 49-55% decline.

65 This assumption is not unreasonable, given that we control for temporal bunching, and that our estimates of lost transactions also suggest substantial declines.

66 Calculating future losses of tax revenue always involves some assumptions, but generally the loss will be a function of the rate at which ULA reduces high end transactions and the growth in property value over time. If ULA reduced high-end transactions by the same dollar amount (say, \$25 million) every year, by year ten the City of Los Angeles would be forfeiting some \$250 million per year in property tax revenue. It's possible, of course, that the rate at which the tax deters transactions could itself decline (e.g., in year 2 transactions fall by 45-40%, not 50% as we find in the first years). This could reduce the amount of lost revenue if the average transaction size stays constant. But it may not. If real estate continues to appreciate over time, even a smaller rate of deterred transactions could result in a steady or even increasing amount of foregone revenue (because the average price of a ULA transaction is rising). We are not attempting a precise calculation of the losses: our point is simply that the losses *will* compound so long as ULA continues to deter sales.



realtors and attorneys, while the challenges to ULA were ongoing, were not suggesting that their clients hold properties off the market, but instead suggesting that they keep careful records, so they could collect a refund if ULA was overturned.<sup>67</sup>

Skeptics might also point to our analysis of total transactions (in, e.g., the first models Table 5 and in Table 6). The results here are only suggestive, with coefficients that are negative but not statistically significant. We recognize this limitation to our argument, but its most plausible explanation lies in the fact that ULA does not apply to the vast majority of transactions, which makes detecting its effect in a sample of all transactions difficult. One could also argue that single-family home sales (which are over 80% of total transactions) are less likely to be deterred by Measure ULA. We think this is probably true as a general rule, but likely *less* true for single-family homes of over \$5 million, which often look more like investment properties and less like dwellings for everyday owner-occupancy. In any case, if we are wrong, and the lack of statistical significance in these regressions implies that ULA really has no effect, we would expect to find similar null results in our other regressions. But we do not. All other models imply substantial reductions.

In summary, we believe a fair reading of the evidence should give cause for concern. Measure ULA is plausibly reducing a small but disproportionately important segment of real estate transactions. These transactions — the trade in more expensive non-single family property — are pivotal for increasing our housing supply, and for repurposing many spaces that the new economy has rendered obsolete. These transactions also drive growth in the property tax base, which means they have strong fiscal implications for not just the City of L.A. but also the other governments (the county, the school district, and various special districts) that rely on revenue from property in the City of L.A. Not least, discouraging these transactions also reduces ULA’s own revenue.

A final point is that Measure ULA, in targeting these transactions, departs from the spirit in which it was advertised. ULA was heavily promoted as a “Mansion Tax” and a tax on unearned gains, but our evidence suggests it is landing heavily on the trade in commercial, industrial and multifamily residential property. Put another way, Measure ULA was advertised as a tax on what might be called “consumer” real estate — high-value single-family residences — but we see that in practice it lands heavily on *investor* real estate, which is to say people trying to build, or to operate properties as businesses.

The solution to these problems is *not* to abolish or end Measure ULA. The spirit of Measure ULA is an admirable one, and Los Angeles undeniably needs revenue to help its less-advantaged residents. In a world where raising property taxes is politically difficult, transfer taxes can provide some of that revenue. The ideal outcome, then, is one that preserve’s ULA’s ability to raise revenue for affordable housing without jeopardizing new development or property tax growth.

We propose a number of ways to achieve that outcome, none mutually exclusive and some overlapping. We acknowledge, before outlining these ideas, that reforming ULA is legally and politically difficult. Measure ULA is a dense, 29-page law, and included in its language are provisions that restrict the Los Angeles City Council’s

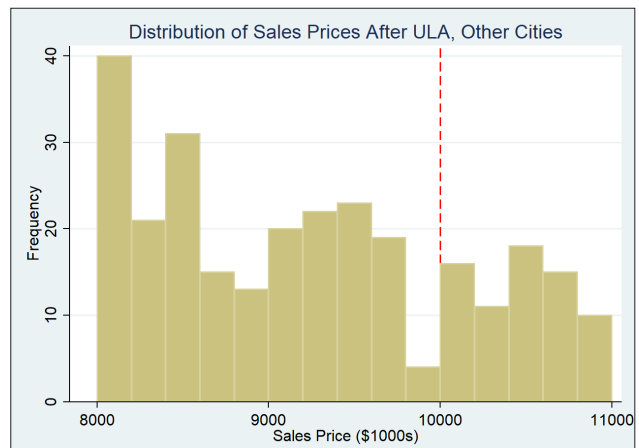
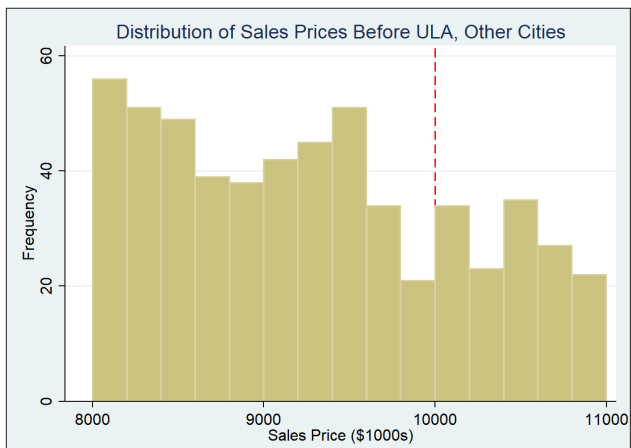
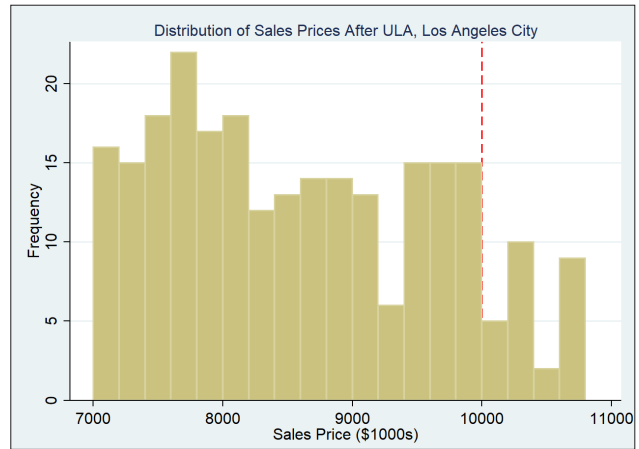
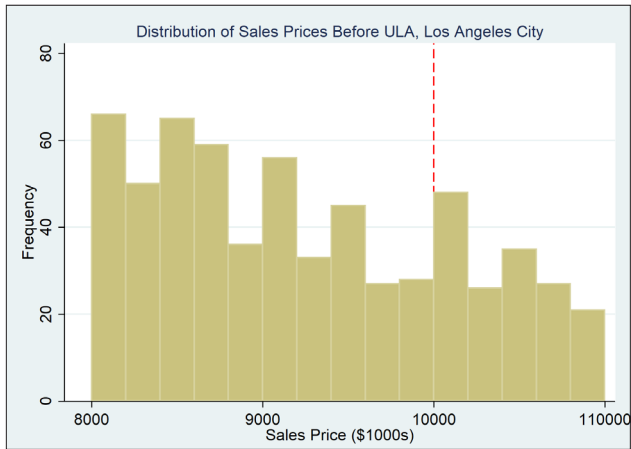
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67 This suggestion is of course in their interest (realtors and attorneys would prefer to keep collecting fees) but the self-interest doesn’t change the fact that this was the advice being given, and also suggests that a conspiracy is unlikely — people rarely conspire to make their own incomes streams smaller and less stable.





# Appendix A: Notches at \$10 Million in Los Angeles, After ULA





**Table B2. Associations With Sales of \$5 Million or More (Odds Ratios)**

	(1)	(2)	(3)
<b>Los Angeles</b>	1.275*** (6.73)	1.192*** (4.62)	0.700*** (-4.24)
<b>Post-ULA</b>	1.069 (1.47)	1.068 (1.40)	2.006*** (9.56)
<b>Post-ULA * Los Angeles</b>	0.590*** (-7.50)	0.655*** (-5.87)	0.510*** (-8.10)
<b>Site and Building Controls</b>	Yes	Yes	Yes
<b>Year Fixed Effects</b>	No	No	Yes
<b>Zip Code Fixed Effects</b>	No	No	Yes
<b>Notch Omitted</b>	No	Yes	Yes
<b>N</b>	<b>96464</b>	<b>90653</b>	<b>77614</b>

Exponentiated coefficients; t-statistics in parentheses. \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$   
 Site and building controls include bedrooms, land use type, size of lot, and tax delinquency status.  
 "Notch Omitted" means observations from the quarter prior to ULA and first two months of ULA are dropped.  
 Sample is restricted to sales of \$1 million or more. All regressions estimated with robust standard errors.



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