Pre-Period for housing density 1000m — *for density* vs *percent of neighborhood area (within 1000m radius) that is project* (RDP pre, placebo pre)

Pre-Period inf housing density 1000m — *inf density* vs *percent of neighborhood area (within 1000m radius) that is project* (RDP pre, placebo pre)

Change in for housing density 1000m — *change in for density* vs *percent of neighborhood area (within 1000m radius) that is project* (RDP change, placebo change)

Change in inf housing density 1000m — *change in inf density* vs *percent of neighborhood area (within 1000m radius) that is project* (RDP change, placebo change)
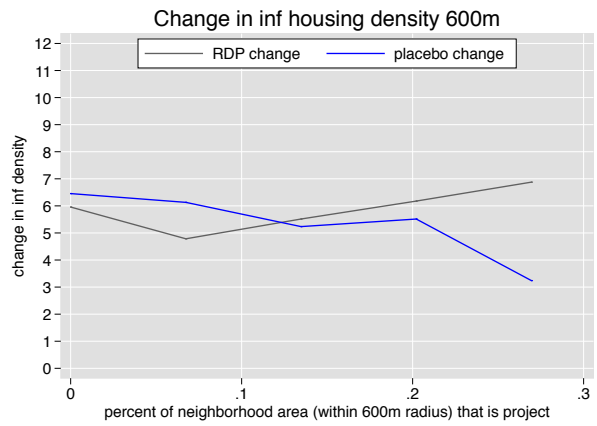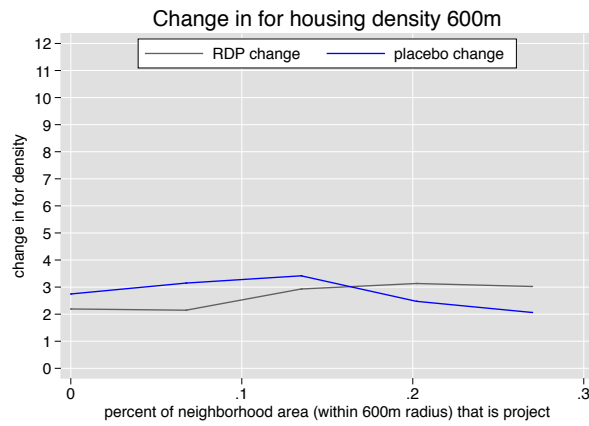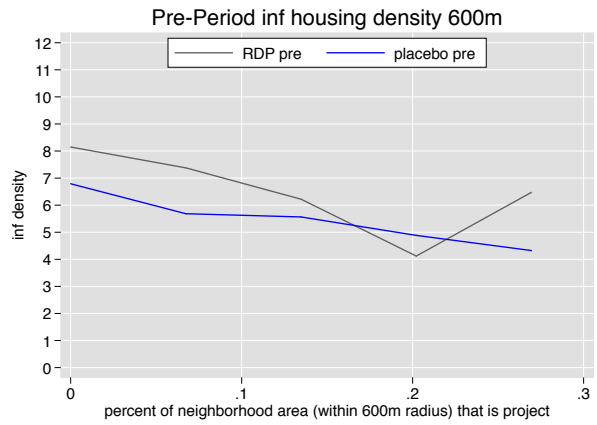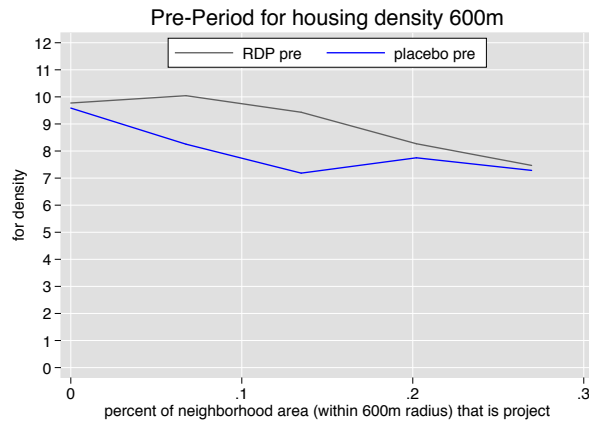
1. New Overlap Approach

- how it's made

  - for each 100m^2 bblu cell, find the 1km buffer around its centroid
  - calculate the percentage area overlap between the buffer and RDP and Placebo project areas
  - the plots above are generated by taking the percent overlap, trimming out the top 5% of percent overlap (because there is a long weird tail), then plotting averages

- why i like it

  - i think that's what people care about "there are a lot of public houses in my neighborhood" instead of "the closest public house to me happens to be X meters"
  - econ theory
    * nearest distance might matter for jobs and schools where you have to commute each day
    * number of public houses in a neighborhood may matter more for disease, congestion, use of public services, ie. maybe more like mechanisms we're interested in

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- observations with a lot of projects around them get weighted up, observations on the outskirts get weighted down
- big projects have a bigger impact, and since these projects are grids of houses/entire neighborhoods, they probably should
- empirically, the plots above have closer baseline means between

- why i don't like it

Pre-Period for housing density 600m

Pre-Period inf housing density 600m

Change in for housing density 600m

Change in inf housing density 600m

2. ROBUSTNESS : vary all the bandwidths

Pre-Period for housing density 700m

Pre-Period inf housing density 700m

Change in for housing density 700m

Change in inf housing density 700m

Pre-Period for housing density 800m

Pre-Period inf housing density 800m

Change in for housing density 800m

Change in inf housing density 800m

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Pre-Period for housing density 900m

Pre-Period inf housing density 900m

Change in for housing density 900m

Change in inf housing density 900m

Pre-Period for housing density 1000m

Pre-Period inf housing density 1000m

Change in for housing density 1000m

Change in inf housing density 1000m

Pre-Period for housing density 1100m

Pre-Period inf housing density 1100m

Change in for housing density 1100m

Change in inf housing density 1100m

Pre-Period for housing density 1200m

Pre-Period inf housing density 1200m

Change in for housing density 1200m

Change in inf housing density 1200m

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