**Under the (neighbor)Hood – mapping of figures and tables to dofiles**

**Figures**

Dofiles are in yellow

Figure 1 – Figure 1.pdf

Figure 2 – coef\_units\_1918\_base\_du\_edited, coef\_units\_1918\_base\_duhe\_edited, coef\_units\_1918\_base\_mfdu\_edited, coef\_units\_1918\_base\_mf\_edited, coef\_units\_1918\_base\_mfhe\_edited, coef\_units\_1918\_base\_he\_edited 🡪 postrestat\_rd\_main\_mtlines

Figure 3 – coef\_lotsizeac1\_1918\_du\_Alex, coef\_livingarea1\_1918\_du\_Alex, coef\_bedrooms1\_1918\_du\_Alex, coef\_bathfull1\_1918\_du\_Alex, coef\_livingarea1\_1918\_mfdu\_Alex, coef\_bedrooms1\_1918\_mfdu\_Alex, coef\_bathfull1\_1918\_mfdu\_Alex, coef\_bedrooms1\_1918\_mf\_Alex, coef\_livingarea1\_1918\_duhe\_Alex 🡪 postrestat\_rd\_chars\_mtlines

Figure 4 – coef\_price\_base\_du\_Alex, coef\_price\_base\_mfdu\_Alex, coef\_price\_base\_duhe\_Alex, coef\_price\_base\_mf\_Alex, coef\_rent\_base\_du\_Alex, coef\_rent\_base\_duhe\_Alex 🡪 postrestat\_rd\_main\_mtlines

Figure 5 – coef\_price\_both\_du\_Alex, coef\_price\_both\_mfdu\_Alex, coef\_rent\_both\_du\_Alex, coef\_rent\_both\_duhe\_Alex, coef\_land\_base\_du\_Alex, coef\_land\_base\_mfdu\_Alex 🡪 postrestat\_rd\_main\_mtlines

Figure 6 – coef\_rent\_robustness\_5001400\_both\_du\_Alex, coef\_rent\_robustness\_5001400\_both\_duhe\_Alex, coef\_price\_robustness\_amenitiesnew\_both\_du\_Alex, coef\_price\_robustness\_amenitiesnew\_both\_mfdu\_Alex, coef\_rent\_robustness\_amenitiesnew\_both\_du\_Alex, coef\_rent\_robustness\_amenitiesnew\_both\_duhe\_Alex, 🡪 postrestat\_rd\_robustness\_mtlines

coef\_price\_base\_unweighted\_noroads\_du\_Alex, coef\_price\_base\_unweighted\_noroads\_mfdu\_Alex, coef\_rent\_base\_unweighted\_noroads\_du\_Alex 🡪 postrestat\_rd\_main\_no\_roads

Figure 7 – 🡪 postQJE\_Spatial\_Heterogeneity + 🡪 3 means files (I think these can be condensed) + 🡪 policy\_numbers\_C2 = 🡪 map\_prep.do (can probably be condensed with previous file and maybe with maps file as well) + 🡪 file that makes maps (price\_units\_map\_v2)

Steps

1. postQJE\_Spatial\_Heterogeneity 🡪 estimates price/rent/unit effects by community type 🡪 output postQJE\_spatial\_price\_coeff\_MAPCdefinition.dta and postQJE\_spatial\_unit\_coeff\_MAPCdefinition.dta + postQJE\_spatial\_supply\_coeff\_MAPCdefinition.dta
2. postQJE\_train\_station\_means: inputs (a whole lot of general stuff, Nick please confirm we need Mike for this) 🡪 output: postQJE\_train\_station\_means.dta
3. means\_town.do 🡪 inputs: postQJE\_means\_town\_lvl.dta (this used to come from our old means file, check that this is still the case, otherwise need to add this back) 🡪 output postQJE\_means\_town\_lvl\_tomerge.dta
4. means\_prepare (in Amrita Welfare): relevant input is postQJE\_means\_town\_lvl\_tomerge.dta (form where?) 🡪 output: mean\_clean\_town.dta + stations\_without\_two\_sides.dta
5. policy\_numbers\_C2 (in Amrita Welfare): inputs are postQJE\_train\_station\_means.dta + postQJE\_spatial\_unit\_coeff\_MAPCdefinition.dta + postQJE\_spatial\_price\_coeff\_MAPCdefinition.dta + means\_clean\_town.dta (where does this come from?) 🡪 output is values\_units\_town\_C2.dta + values\_prices\_town\_C2.xls + values\_town\_new\_C2.xls
6. map\_prep.do (in Amrita Welfare): takes as input values\_town\_new\_C2.xls and values\_units\_town\_C2.dta 🡪 this file mostly seems to clean and do the calculation of which stops already had looser regulation, etc. 🡪 output is: units\_40a.csv and prices\_units\_40a.csv
7. price\_units\_map\_v2 : takes as input all\_stations.csv (raw data), stations\_without\_two\_sides.dta, prices\_units\_40a.csv, units\_40a.csv 🡪 makes maps

Figure A.1 – own design based on MAPC Zoning atlas technical appendix https://metropolitan-area-planning-counc.gitbook.io/zoning-atlas-appendix

Figure A.2 – own digitization and overlay with mapc boundaries 🡪 can provide the GIS link

Figure A.3 – can’t find this in anything we ran with mike just the version with all different others plotted in, may have to amend this code

Figure A.4 – postrestat\_binscatter\_3a 🡪 postrestat\_histogram

Figure A.5 – this comes from plotting different boundary files at different times of dropping, find files (the lines come from the first part of boundary\_selection, Amrita clean this up, with exception of mt\_orthogonal\_lines which Nick has the file for )

1. polylines\_feasible.shp
2. polylines\_feasible.shp + mapc\_minus\_muni\_minus\_river\_minus\_roads.shp
3. mapc\_minus\_muni\_minus\_river\_minus\_roads + mapc\_minus\_muni\_minus\_river\_minus\_roads\_minus\_attendance\_minus\_sd\_minus\_zo.shp
4. mapc\_minus\_muni\_minus\_river\_minus\_roads\_minus\_attendance\_minus\_sd\_minus\_zo.shp + mt\_orthogonal\_lines.shp

Figure C.1 – coef\_river\_mf\_edited, coef\_space\_mfdu\_edited, coef\_school\_duhe\_edited, coef\_center\_mfhe\_edited, coef\_road\_he\_edited, coef\_road\_du\_edited 🡪 postREstat\_rd\_amenities\_mtlines

Figure C.2 – coef\_transit\_du\_edited, coef\_slope\_du\_edited, coef\_slope\_mfdu\_edited, coef\_depth\_mfdu\_edited, coef\_clay\_mf\_edited, coef\_sand\_duhe\_edited 🡪 postREstat\_rd\_amenities\_mtlines

Figure C.3 – coef\_units\_1956\_base\_du\_edited, coef\_units\_1956\_base\_duhe\_edited, coef\_units\_1956\_base\_mfdu\_edited, coef\_units\_1956\_base\_mf\_edited, coef\_units\_1956\_base\_mfhe\_edited, coef\_units\_1956\_base\_he\_edited 🡪 postrestat\_rd\_main\_mtlines

Figure C.4 – coef\_units\_noyear\_base\_du, coef\_units\_noyear\_base\_duhe, coef\_units\_noyear\_base\_mfdu, coef\_units\_noyear\_base\_mf, coef\_units\_noyear\_base\_mfh, coef\_units\_noyear\_base\_he 🡪 postrestat\_rd\_main\_mtlines

Figure C.5 – coef\_lotsizeac1\_noyear\_du\_Alex, coef\_livingarea1\_noyear\_du\_Alex, coef\_bedrooms1\_noyear\_du\_Alex, coef\_bathfull1\_noyear\_du\_Alex, coef\_livingarea1\_noyear\_mfdu\_Alex, coef\_bedrooms1\_noyear\_mfdu\_Alex, coef\_bathfull1\_noyear\_mfdu\_Alex, coef\_bedrooms1\_noyear\_mf\_Alex, coef\_livingarea1\_noyear\_duhe\_Alex 🡪 postrestat\_rd\_chars\_mtlines

Figure C.6 – coef\_price\_base\_mfhe\_edited, coef\_rent\_base\_he\_edited, coef\_price\_base\_he\_edited 🡪 postrestat\_rd\_main\_mtlines

Figure C.7 – coef\_land\_base\_duhe\_Alex, coef\_land\_base\_mf\_Alex, coef\_land\_base\_mfhe\_Alex, coef\_land\_base\_he\_Alex 🡪 postrestat\_rd\_main\_mtlines

Figure C.8 – coef\_rent\_robustness\_costardummy\_both\_du\_Alex, coef\_rent\_robustness\_costardummy\_both\_duhe\_Alex 🡪 postrestat\_rd\_robustness\_mtlines

Figure C.9 – coef\_price\_robustness\_acs\_both\_du\_Alex, coef\_rent\_robustness\_acs\_both\_du\_Alex, coef\_price\_robustness\_acs\_both\_duhe\_Alex, coef\_rent\_robustness\_acs\_both\_duhe\_Alex, coef\_price\_robustness\_acs\_both\_mf\_Alex, coef\_price\_robustness\_acs\_both\_mfdu\_Alex 🡪 postrestat\_rd\_robustness\_mtlines

Figure C.10 – coef\_price\_minlotsize\_clustered\_du\_Alex, coef\_price\_minlotsize\_clustered\_mfdu\_Alex, coef\_rent\_minlotsize\_clustered\_du\_Alex, coef\_rent\_minlotsize\_clustered\_duhe\_Alex 🡪 postrestat\_rd\_robustness\_mtlines

Figure E.1 – Multifamily zoning in greater Boston area

Figure E.2 – Maximum height restrictions in greater Boston area

Figure E.3 – Maximum density (DUPAC) in greater Boston area

Figure E.4 – Total units by housing type: Warren and American Community Survey data

Figure E.5 – Towns included in sample

Figure E.6 – Correlation between straight line and walking distance 🡪 straight\_v\_walking\_dist (not run with mike) + I think there are other files involved generating the distance to begin with

Figure E.7 – Vacant land lots

Figure E.8 – Greater Boston Area municipality types – I can’t access the link from outside US it seems, but this is the picture https://images.app.goo.gl/H1Rhyk5bnvy1d5Jk8

**Tables**

Table 1 – need to check if any other files involved by going through log files but for sure 🡪 postrestat\_means

Table 2 🡪 postREstat\_rd\_amenities\_mtlines (Panel A + B) 🡪 postREStat\_predicted\_prices\_mtlines (Panel C)

Table 3 🡪 postrestat\_within\_town\_mtlines Parts 6 + 7 (also postrest\_within\_town\_mtlines\_robustse , check if needed)

Table C.1- means for Table 2 🡪 postREstat\_rd\_amenities\_mtlines

Table C.2 🡪 postREstat\_rd\_amenities\_muni\_boundary

Table C.3 🡪 postREStat\_rd\_residuals (note to us to rename this properly next time in text)

Table C.4 🡪 postrestat\_within\_town\_mtlines Parts 6 + 7 (also postrest\_within\_town\_mtlines\_robustse , check if needed)

Table C.5 🡪 postrestat\_within\_town\_mtlines Parts 6 + 7 (also postrest\_within\_town\_mtlines\_robustse , check if needed)

Table C.6 – up to 0.2 miles from boundary, no year built restriction 🡪 postrestat\_within\_town\_mtlines

Table C.7 🡪 postrestat\_within\_town\_mtlines Parts 6 + 7 (also postrest\_within\_town\_mtlines\_robustse , check if needed)

Table C.8 🡪 postrestat\_rd\_main\_mtlines + 🡪 postrestat\_rd\_chars\_mtlines

Table C.9 🡪 postREStat\_bindingness

Table C.10 🡪 postrestat\_rd\_robustness\_mtlines

Table C.11 🡪 postREStat\_external\_effects

Table D.1 🡪 postQJE\_Spatial\_Heterogeneity (need to check log files, we never ran this with mike )

Table D.2 🡪 postQJE\_Spatial\_Heterogeneity

Table E.1 🡪 Own internet research

Table E.2 – Adoption of first zoning laws across municipalities 🡪 Knauss, Norman L, Zoned Municipalities in the United States, Vol. 374, Division of Building and Housing, Bureau of Standards, 1933

**Miscellaneous things that we need to replicate**

* Optimal bandwidth number 🡪 postrestat\_rd\_robustness\_mtlines