

APPENDIX C: Stata Code for Cleaning Data

```

1  cd "C:\Users\kla86\Desktop"
2
3  *****Enroll and Offering Data*****
4  use enroll_public_gradel5, replace
5  drop if charterstatus == "OPEN ENROLLMENT CHARTER"
6  keep region districtnumber enrollmentbygradelevel
7  collapse enrollmentbygradelevel, by(districtnumber region)
8  merge 1:1 districtnumber using districttype15
9  drop enrollmentbygradelevel _merge
10 rename districtnumber district
11 rename name distname
12 rename locale urbanicity
13 order district distname region urbanicity
14 save c_districttype, replace
15
16
17 use enroll_combol5, replace
18 drop if charter_status == "Open Enrollment Charter"
19 drop charter_status
20 rename endorse_combos endorse
21 split endorse, p("/")
22 drop endorse
23 foreach x of varlist endorse* {
24 replace `x' = "Arts" if `x' == "ART&HUMANITY"
25 replace `x' = "Business" if `x' == "BUSN&INDUS"
26 replace `x' = "None" if `x' == "NO ENDORSEMENT DECLARED"
27 replace `x' = "Multidisc" if `x' == "MULTIDISCIPL"
28 replace `x' = "Multidisc" if `x' == "MULT DISCIPL"
29 replace `x' = "Public" if `x' == "PUBL SVCS"
30 }
31 gen endorse = ""
32 replace endorse = "STEM" if endorse1 == "STEM" & endorse2 == "" & endorse3 == "" & endorse4
== "" & endorse5 == ""
33 replace endorse = "Arts" if endorse1 == "Arts" & endorse2 == "" & endorse3 == "" & endorse4
== "" & endorse5 == ""
34 replace endorse = "Business" if endorse1 == "Business" & endorse2 == "" & endorse3 == "" &
endorse4 == "" & endorse5 == ""
35 replace endorse = "Multidisc" if endorse1 == "Multidisc" & endorse2 == "" & endorse3 == "" &
endorse4 == "" & endorse5 == ""
36 replace endorse = "Public" if endorse1 == "Public" & endorse2 == "" & endorse3 == "" &
endorse4 == "" & endorse5 == ""
37 replace endorse = "None" if endorse1 == "None"
38 replace endorse = "ComboSTEM" if endorse1 == "STEM" & endorse2 != ""
39 replace endorse = "ComboNoSTEM" if endorse1 != "STEM" & endorse2 != ""
40 gen endorseSTEM = 0
41 replace endorseSTEM = 1 if endorse1 == "STEM" | endorse2 == "STEM" | endorse3 == "STEM" |
endorse4 == "STEM" | endorse5 == "STEM"
42 gen endorseART = 0
43 replace endorseART = 1 if endorse1 == "Arts" | endorse2 == "Arts" | endorse3 == "Arts" |
endorse4 == "Arts" | endorse5 == "Arts"
44 gen endorseBUS = 0
45 replace endorseBUS = 1 if endorse1 == "Business" | endorse2 == "Business" | endorse3 ==
"Business" | endorse4 == "Business" | endorse5 == "Business"
46 gen endorseMULT = 0
47 replace endorseMULT = 1 if endorse1 == "Multidisc" | endorse2 == "Multidisc" | endorse3 ==
"Multidisc" | endorse4 == "Multidisc" | endorse5 == "Multidisc"
48 gen endorsePUBLIC = 0
49 replace endorsePUBLIC = 1 if endorse1 == "Public" | endorse2 == "Public" | endorse3 ==
"Public" | endorse4 == "Public" | endorse5 == "Public"
50 rename fhsp_endorse_* *
51 drop endorse1-endorse5
52 bysort district: egen offer_stem_15 = sum(endorseSTEM)
53 bysort district: egen offer_arts_15 = sum(endorseART)
54 bysort district: egen offer_business_15 = sum(endorseBUS)
55 bysort district: egen offer_multidisc_15 = sum(endorseMULT)
56 bysort district: egen offer_public_15 = sum(endorsePUBLIC)
57 foreach x of varlist offer*_15 {
58 replace `x' = 1 if `x' >= 1
59 }
60 gen offer_total_15 = offer_stem_15 + offer_arts_15 + offer_business_15 + offer_multidisc_15
+ offer_public_15

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61 drop endorseSTEM-endorsePUBLIC
62 gen id= _n
63 rename asian number1
64 rename black_or_african_am number2
65 rename hispanic_latino number3
66 rename two_or_more_races number4
67 rename white number5
68 rename american_indian_or number6
69 rename native_hawaiian_oth number7
70 rename lep number8
71 rename eco number9
72 rename male number10
73 rename female number11
74 reshape long number, i(id) j(category)
75 tostring(category), replace
76 replace category = "Asian" if category == "1"
77 replace category = "Black" if category == "2"
78 replace category = "Hispanic" if category == "3"
79 replace category = "TwoRace" if category == "4"
80 replace category = "White" if category == "5"
81 replace category = "Native" if category == "6"
82 replace category = "Pacific" if category == "7"
83 replace category = "LEP" if category == "8"
84 replace category = "Eco" if category == "9"
85 replace category = "Male" if category == "10"
86 replace category = "Female" if category == "11"
87 gen j = endorse+"_"+category
88 drop category endorse id
89 sort district j
90 replace number = 0 if number == .
91 replace number = 2.5 if number == -99
92 sort district j
93 collapse(sum) number, by (year region distname district j offer*15)
94 reshape wide number, i(district) j(j, s)
95 rename number* enroll_*_15
96 foreach x of varlist enroll_* {
97 replace `x' = 0 if `x' == .
98 }
99 gen enroll_FHSP_Black_15 = enroll_Arts_Black_15 + enroll_Business_Black_15 +
enroll_CombNoSTEM_Black_15 + enroll_CombSTEM_Black_15 + enroll_Multidisc_Black_15 +
enroll_None_Black_15 + enroll_Public_Black_15 + enroll_STEM_Black_15
100 gen enroll_FHSP_Hispanic_15 = enroll_Arts_Hispanic_15 + enroll_Business_Hispanic_15 +
enroll_CombNoSTEM_Hispanic_15 + enroll_CombSTEM_Hispanic_15 + enroll_Multidisc_Hispanic_15 +
enroll_None_Hispanic_15 + enroll_Public_Hispanic_15 + enroll_STEM_Hispanic_15
101 gen enroll_FHSP_White_15 = enroll_Arts_White_15 + enroll_Business_White_15 +
enroll_CombNoSTEM_White_15 + enroll_CombSTEM_White_15 + enroll_Multidisc_White_15 +
enroll_None_White_15 + enroll_Public_White_15 + enroll_STEM_White_15
102 gen enroll_FHSP_LEP_15 = enroll_Arts_LEP_15 + enroll_Business_LEP_15 +
enroll_CombNoSTEM_LEP_15 + enroll_CombSTEM_LEP_15 + enroll_Multidisc_LEP_15 +
enroll_None_LEP_15 + enroll_Public_LEP_15 + enroll_STEM_LEP_15
103 gen enroll_FHSP_Eco_15 = enroll_Arts_Eco_15 + enroll_Business_Eco_15 +
enroll_CombNoSTEM_Eco_15 + enroll_CombSTEM_Eco_15 + enroll_Multidisc_Eco_15 +
enroll_None_Eco_15 + enroll_Public_Eco_15 + enroll_STEM_Eco_15
104 gen enroll_FHSP_Male_15 = enroll_Arts_Male_15 + enroll_Business_Male_15 +
enroll_CombNoSTEM_Male_15 + enroll_CombSTEM_Male_15 + enroll_Multidisc_Male_15 +
enroll_None_Male_15 + enroll_Public_Male_15 + enroll_STEM_Male_15
105 gen enroll_FHSP_Female_15 = enroll_Arts_Female_15 + enroll_Business_Female_15 +
enroll_CombNoSTEM_Female_15 + enroll_CombSTEM_Female_15 + enroll_Multidisc_Female_15 +
enroll_None_Female_15 + enroll_Public_Female_15 + enroll_STEM_Female_15
106 gen enroll_STEMSTEMCombo_Black_15 = enroll_CombSTEM_Black_15 + enroll_STEM_Black_15
107 gen enroll_STEMSTEMCombo_White_15 = enroll_CombSTEM_White_15 + enroll_STEM_White_15
108 gen enroll_STEMSTEMCombo_Hisp_15 = enroll_CombSTEM_Hispanic_15 + enroll_STEM_Hispanic_15
109 gen enroll_STEMSTEMCombo_LEP_15 = enroll_CombSTEM_LEP_15 + enroll_STEM_LEP_15
110 gen enroll_STEMSTEMCombo_Eco_15 = enroll_CombSTEM_Eco_15 + enroll_STEM_Eco_15
111 gen enroll_STEMSTEMCombo_Male_15 = enroll_CombSTEM_Male_15 + enroll_STEM_Male_15
112 gen enroll_STEMSTEMCombo_Female_15 = enroll_CombSTEM_Female_15 + enroll_STEM_Female_15
113 save c_enroll_combo15, replace
114
115
116 use enroll_combo16, replace
117 drop if charter_status == "Open Enrollment Charter"

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118 drop charter_status
119 rename endorse_combos endorse
120 split endorse, p("/")
121 drop endorse
122 foreach x of varlist endorse* {
123 replace `x' = "Arts" if `x' == "ART&HUMANITY"
124 replace `x' = "Business" if `x' == "BUSN&INDUS"
125 replace `x' = "None" if `x' == "NO ENDORSEMENT DECLARED"
126 replace `x' = "Multidisc" if `x' == "MULTIDISCIPL"
127 replace `x' = "Multidisc" if `x' == "MULT DISCIPL"
128 replace `x' = "Public" if `x' == "PUBL SVCS"
129 }
130 gen endorse = ""
131 replace endorse = "STEM" if endorse1 == "STEM" & endorse2 == "" & endorse3 == "" & endorse4
== "" & endorse5 == ""
132 replace endorse = "Arts" if endorse1 == "Arts" & endorse2 == "" & endorse3 == "" & endorse4
== "" & endorse5 == ""
133 replace endorse = "Business" if endorse1 == "Business" & endorse2 == "" & endorse3 == "" &
endorse4 == "" & endorse5 == ""
134 replace endorse = "Multidisc" if endorse1 == "Multidisc" & endorse2 == "" & endorse3 == "" &
endorse4 == "" & endorse5 == ""
135 replace endorse = "Public" if endorse1 == "Public" & endorse2 == "" & endorse3 == "" &
endorse4 == "" & endorse5 == ""
136 replace endorse = "None" if endorse1 == "None"
137 replace endorse = "ComboSTEM" if endorse1 == "STEM" & endorse2 != ""
138 replace endorse = "ComboNoSTEM" if endorse1 != "STEM" & endorse2 != ""
139 gen endorseSTEM = 0
140 replace endorseSTEM = 1 if endorse1 == "STEM" | endorse2 == "STEM" | endorse3 == "STEM" |
endorse4 == "STEM" | endorse5 == "STEM"
141 gen endorseART = 0
142 replace endorseART = 1 if endorse1 == "Arts" | endorse2 == "Arts" | endorse3 == "Arts" |
endorse4 == "Arts" | endorse5 == "Arts"
143 gen endorseBUS = 0
144 replace endorseBUS = 1 if endorse1 == "Business" | endorse2 == "Business" | endorse3 ==
"Business" | endorse4 == "Business" | endorse5 == "Business"
145 gen endorseMULT = 0
146 replace endorseMULT = 1 if endorse1 == "Multidisc" | endorse2 == "Multidisc" | endorse3 ==
"Multidisc" | endorse4 == "Multidisc" | endorse5 == "Multidisc"
147 gen endorsePUBLIC = 0
148 replace endorsePUBLIC = 1 if endorse1 == "Public" | endorse2 == "Public" | endorse3 ==
"Public" | endorse4 == "Public" | endorse5 == "Public"
149 rename fhsp_endorse_* *
150 drop endorse1-endorse5
151 bysort district: egen offer_stem_16 = sum(endorseSTEM)
152 bysort district: egen offer_arts_16 = sum(endorseART)
153 bysort district: egen offer_business_16 = sum(endorseBUS)
154 bysort district: egen offer_multidisc_16 = sum(endorseMULT)
155 bysort district: egen offer_public_16 = sum(endorsePUBLIC)
156 foreach x of varlist offer*_16 {
157 replace `x' = 1 if `x' >= 1
158 }
159 gen offer_total_16 = offer_stem_16 + offer_arts_16 + offer_business_16 + offer_multidisc_16
+ offer_public_16
160 drop endorseSTEM-endorsePUBLIC
161 gen id= _n
162 rename asian number1
163 rename black_or_african_am number2
164 rename hispanic_latino number3
165 rename two_or_more_races number4
166 rename white number5
167 rename american_indian_or number6
168 rename native_hawaiian_oth number7
169 rename lep number8
170 rename eco number9
171 rename male number10
172 rename female number11
173 reshape long number, i(id) j(category)
174 tostring(category), replace
175 replace category = "Asian" if category == "1"
176 replace category = "Black" if category == "2"
177 replace category = "Hispanic" if category == "3"

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178 replace category = "TwoRace" if category == "4"
179 replace category = "White" if category == "5"
180 replace category = "Native" if category == "6"
181 replace category = "Pacific" if category == "7"
182 replace category = "LEP" if category == "8"
183 replace category = "Eco" if category == "9"
184 replace category = "Male" if category == "10"
185 replace category = "Female" if category == "11"
186 gen j = endorse+"_"+category
187 drop category endorse id
188 sort district j
189 replace number = 0 if number == .
190 replace number = 2.5 if number == -99
191 sort district j
192 collapse(sum) number, by (year region distname district j offer*_16)
193 reshape wide number, i(district) j(j, s)
194 rename number* enroll*_16
195 foreach x of varlist enroll_* {
196   replace `x' = 0 if `x' == .
197 }
198 gen enroll_FHSP_Black_16 = enroll_Arts_Black_16 + enroll_Business_Black_16 +
enroll_CombNoSTEM_Black_16 + enroll_CombSTEM_Black_16 + enroll_Multidisc_Black_16 +
enroll_None_Black_16 + enroll_Public_Black_16 + enroll_STEM_Black_16
199 gen enroll_FHSP_Hispanic_16 = enroll_Arts_Hispanic_16 + enroll_Business_Hispanic_16 +
enroll_CombNoSTEM_Hispanic_16 + enroll_CombSTEM_Hispanic_16 + enroll_Multidisc_Hispanic_16
+ enroll_None_Hispanic_16 + enroll_Public_Hispanic_16 + enroll_STEM_Hispanic_16
200 gen enroll_FHSP_White_16 = enroll_Arts_White_16 + enroll_Business_White_16 +
enroll_CombNoSTEM_White_16 + enroll_CombSTEM_White_16 + enroll_Multidisc_White_16 +
enroll_None_White_16 + enroll_Public_White_16 + enroll_STEM_White_16
201 gen enroll_FHSP_LEP_16 = enroll_Arts_LEP_16 + enroll_Business_LEP_16 +
enroll_CombNoSTEM_LEP_16 + enroll_CombSTEM_LEP_16 + enroll_Multidisc_LEP_16 +
enroll_None_LEP_16 + enroll_Public_LEP_16 + enroll_STEM_LEP_16
202 gen enroll_FHSP_Eco_16 = enroll_Arts_Eco_16 + enroll_Business_Eco_16 +
enroll_CombNoSTEM_Eco_16 + enroll_CombSTEM_Eco_16 + enroll_Multidisc_Eco_16 +
enroll_None_Eco_16 + enroll_Public_Eco_16 + enroll_STEM_Eco_16
203 gen enroll_FHSP_Male_16 = enroll_Arts_Male_16 + enroll_Business_Male_16 +
enroll_CombNoSTEM_Male_16 + enroll_CombSTEM_Male_16 + enroll_Multidisc_Male_16 +
enroll_None_Male_16 + enroll_Public_Male_16 + enroll_STEM_Male_16
204 gen enroll_FHSP_Female_16 = enroll_Arts_Female_16 + enroll_Business_Female_16 +
enroll_CombNoSTEM_Female_16 + enroll_CombSTEM_Female_16 + enroll_Multidisc_Female_16 +
enroll_None_Female_16 + enroll_Public_Female_16 + enroll_STEM_Female_16
205 gen enroll_STEMSTEMCombo_Black_16 = enroll_CombSTEM_Black_16 + enroll_STEM_Black_16
206 gen enroll_STEMSTEMCombo_White_16 = enroll_CombSTEM_White_16 + enroll_STEM_White_16
207 gen enroll_STEMSTEMCombo_Hisp_16 = enroll_CombSTEM_Hispanic_16 + enroll_STEM_Hispanic_16
208 gen enroll_STEMSTEMCombo_LEP_16 = enroll_CombSTEM_LEP_16 + enroll_STEM_LEP_16
209 gen enroll_STEMSTEMCombo_Eco_16 = enroll_CombSTEM_Eco_16 + enroll_STEM_Eco_16
210 gen enroll_STEMSTEMCombo_Male_16 = enroll_CombSTEM_Male_16 + enroll_STEM_Male_16
211 gen enroll_STEMSTEMCombo_Female_16 = enroll_CombSTEM_Female_16 + enroll_STEM_Female_16
212 save c_enroll_combo16, replace
213
214
215 use enroll_combo17, replace
216 drop if charter_status == "Open Enrollment Charter"
217 drop charter_status
218 rename endorse_combos endorse
219 split endorse, p("/")
220 drop endorse
221 foreach x of varlist endorse* {
222   replace `x' = "Arts" if `x' == "ART&HUMANITY"
223   replace `x' = "Business" if `x' == "BUSN&INDUS"
224   replace `x' = "None" if `x' == "NO ENDORSEMENT DECLARED"
225   replace `x' = "Multidisc" if `x' == "MULTIDISCIPL"
226   replace `x' = "Multidisc" if `x' == "MULT DISCIPL"
227   replace `x' = "Public" if `x' == "PUBL SVCS"
228 }
229 gen endorse = ""
230 replace endorse = "STEM" if endorse1 == "STEM" & endorse2 == "" & endorse3 == "" & endorse4
== "" & endorse5 == ""
231 replace endorse = "Arts" if endorse1 == "Arts" & endorse2 == "" & endorse3 == "" & endorse4
== "" & endorse5 == ""
232 replace endorse = "Business" if endorse1 == "Business" & endorse2 == "" & endorse3 == "" &

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233 endorse4 == "" & endorse5 == ""
234 replace endorse = "Multidisc" if endorse1 == "Multidisc" & endorse2 == "" & endorse3 == "" &
endorse4 == "" & endorse5 == ""
235 replace endorse = "Public" if endorse1 == "Public" & endorse2 == "" & endorse3 == "" &
endorse4 == "" & endorse5 == ""
236 replace endorse = "None" if endorse1 == "None"
237 replace endorse = "ComboSTEM" if endorse1 == "STEM" & endorse2 != ""
238 replace endorse = "ComboNoSTEM" if endorse1 != "STEM" & endorse2 != ""
239 gen endorseSTEM = 0
240 replace endorseSTEM = 1 if endorse1 == "STEM" | endorse2 == "STEM" | endorse3 == "STEM" |
endorse4 == "STEM" | endorse5 == "STEM"
241 gen endorseART = 0
242 replace endorseART = 1 if endorse1 == "Arts" | endorse2 == "Arts" | endorse3 == "Arts" |
endorse4 == "Arts" | endorse5 == "Arts"
243 gen endorseBUS = 0
244 replace endorseBUS = 1 if endorse1 == "Business" | endorse2 == "Business" | endorse3 ==
"Business" | endorse4 == "Business" | endorse5 == "Business"
245 gen endorseMULT = 0
246 replace endorseMULT = 1 if endorse1 == "Multidisc" | endorse2 == "Multidisc" | endorse3 ==
"Multidisc" | endorse4 == "Multidisc" | endorse5 == "Multidisc"
247 gen endorsePUBLIC = 0
248 replace endorsePUBLIC = 1 if endorse1 == "Public" | endorse2 == "Public" | endorse3 ==
"Public" | endorse4 == "Public" | endorse5 == "Public"
249 rename fhsp_endorse_*_*
250 drop endorse1-endorse5
251 bysort district: egen offer_stem_17 = sum(endorseSTEM)
252 bysort district: egen offer_arts_17 = sum(endorseART)
253 bysort district: egen offer_business_17 = sum(endorseBUS)
254 bysort district: egen offer_multidisc_17 = sum(endorseMULT)
255 bysort district: egen offer_public_17 = sum(endorsePUBLIC)
256 foreach x of varlist offer_*_17 {
257   replace `x' = 1 if `x' >= 1
258 }
259 gen offer_total_17 = offer_stem_17 + offer_arts_17 + offer_business_17 + offer_multidisc_17
260 + offer_public_17
261 drop endorseSTEM-endorsePUBLIC
262 gen id=_n
263 rename asian number1
264 rename black_or_african_am number2
265 rename hispanic_latino number3
266 rename two_or_more_races number4
267 rename white number5
268 rename american_indian_or number6
269 rename native_hawaiian_oth number7
270 rename lep number8
271 rename eco number9
272 rename male number10
273 rename female number11
274 reshape long number, i(id) j(category)
275 tostring(category), replace
276 replace category = "Asian" if category == "1"
277 replace category = "Black" if category == "2"
278 replace category = "Hispanic" if category == "3"
279 replace category = "TwoRace" if category == "4"
280 replace category = "White" if category == "5"
281 replace category = "Native" if category == "6"
282 replace category = "Pacific" if category == "7"
283 replace category = "LEP" if category == "8"
284 replace category = "Eco" if category == "9"
285 replace category = "Male" if category == "10"
286 replace category = "Female" if category == "11"
287 gen j = endorse+"_"+category
288 drop category endorse id
289 sort district j
290 replace number = 0 if number == .
291 replace number = 2.5 if number == -99
292 sort district j
293 collapse(sum) number, by (year region distname district j offer*_17)
294 reshape wide number, i(district) j(j, s)
295 rename number* enroll*_17
296 foreach xof varlist enroll_*_17 {

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295 replace `x' = 0 if `x' == .
296 }
297 drop year
298 gen enroll_FHSP_Black_17 = enroll_Arts_Black_17 + enroll_Business_Black_17 +
enroll_CombNoSTEM_Black_17 + enroll_CombSTEM_Black_17 + enroll_Multidisc_Black_17 +
enroll_None_Black_17 + enroll_Public_Black_17 + enroll_STEM_Black_17
299 gen enroll_FHSP_Hispanic_17 = enroll_Arts_Hispanic_17 + enroll_Business_Hispanic_17 +
enroll_CombNoSTEM_Hispanic_17 + enroll_CombSTEM_Hispanic_17 + enroll_Multidisc_Hispanic_17
+ enroll_None_Hispanic_17 + enroll_Public_Hispanic_17 + enroll_STEM_Hispanic_17
300 gen enroll_FHSP_White_17 = enroll_Arts_White_17 + enroll_Business_White_17 +
enroll_CombNoSTEM_White_17 + enroll_CombSTEM_White_17 + enroll_Multidisc_White_17 +
enroll_None_White_17 + enroll_Public_White_17 + enroll_STEM_White_17
301 gen enroll_FHSP_LEP_17 = enroll_Arts_LEP_17 + enroll_Business_LEP_17 +
enroll_CombNoSTEM_LEP_17 + enroll_CombSTEM_LEP_17 + enroll_Multidisc_LEP_17 +
enroll_None_LEP_17 + enroll_Public_LEP_17 + enroll_STEM_LEP_17
302 gen enroll_FHSP_Eco_17 = enroll_Arts_Eco_17 + enroll_Business_Eco_17 +
enroll_CombNoSTEM_Eco_17 + enroll_CombSTEM_Eco_17 + enroll_Multidisc_Eco_17 +
enroll_None_Eco_17 + enroll_Public_Eco_17 + enroll_STEM_Eco_17
303 gen enroll_FHSP_Male_17 = enroll_Arts_Male_17 + enroll_Business_Male_17 +
enroll_CombNoSTEM_Male_17 + enroll_CombSTEM_Male_17 + enroll_Multidisc_Male_17 +
enroll_None_Male_17 + enroll_Public_Male_17 + enroll_STEM_Male_17
304 gen enroll_FHSP_Female_17 = enroll_Arts_Female_17 + enroll_Business_Female_17 +
enroll_CombNoSTEM_Female_17 + enroll_CombSTEM_Female_17 + enroll_Multidisc_Female_17 +
enroll_None_Female_17 + enroll_Public_Female_17 + enroll_STEM_Female_17
305 gen enroll_STEM_17 = enroll_STEM_Female_17 + enroll_STEM_Male_17
306 gen enroll_Public_17 = enroll_Public_Female_17 + enroll_Public_Male_17
307 gen enroll_Multidisc_17 = enroll_Multidisc_Female_17 + enroll_Multidisc_Male_17
308 gen enroll_Business_17 = enroll_Business_Female_17 + enroll_Business_Male_17
309 gen enroll_Arts_17 = enroll_Arts_Female_17 + enroll_Arts_Male_17
310 gen enroll_None_17 = enroll_None_Female_17 + enroll_None_Male_17
311 gen enroll_CombNoSTEM_17 = enroll_CombNoSTEM_Female_17 + enroll_CombNoSTEM_Male_17
312 gen enroll_CombSTEM_17 = enroll_CombSTEM_Female_17 + enroll_CombSTEM_Male_17
313 gen enroll_FHSP_total_17 = enroll_FHSP_Male_17 + enroll_FHSP_Female_17
314 gen enroll_STEMSTEMCombo_Black_17 = enroll_CombSTEM_Black_17 + enroll_STEM_Black_17
315 gen enroll_STEMSTEMCombo_White_17 = enroll_CombSTEM_White_17 + enroll_STEM_White_17
316 gen enroll_STEMSTEMCombo_Hisp_17 = enroll_CombSTEM_Hispanic_17 + enroll_STEM_Hispanic_17
317 gen enroll_STEMSTEMCombo_LEP_17 = enroll_CombSTEM_LEP_17 + enroll_STEM_LEP_17
318 gen enroll_STEMSTEMCombo_Eco_17 = enroll_CombSTEM_Eco_17 + enroll_STEM_Eco_17
319 gen enroll_STEMSTEMCombo_Male_17 = enroll_CombSTEM_Male_17 + enroll_STEM_Male_17
320 gen enroll_STEMSTEMCombo_Female_17 = enroll_CombSTEM_Female_17 + enroll_STEM_Female_17
321 gen enroll_FHSP_STEMSTEMCOMBO_17 = enroll_STEM_17 + enroll_CombSTEM_17
322 save c_enroll_combo17, replace
323
324
325 use enroll_distinguished15, replace
326 drop if charter_status == "Open Enrollment Charter"
327 drop charter_status
328 rename fhsp_dist_achieve_* enroll_dist_*_15
329 foreach x of varlist enroll_* {
330 replace `x' = 0 if `x' == .
331 replace `x' = 2.5 if `x' == -99
332 }
333 gen enroll_dist_totalmf_15 = enroll_dist_male_15 + enroll_dist_female_15
334 drop year region
335 save c_enroll_distinguished15, replace
336
337
338 use enroll_distinguished16, replace
339 drop if charter_status == "Open Enrollment Charter"
340 drop charter_status
341 rename fhsp_dist_achieve_* enroll_dist_*_16
342 foreach x of varlist enroll_* {
343 replace `x' = 0 if `x' == .
344 replace `x' = 2.5 if `x' == -99
345 }
346 gen enroll_dist_totalmf_16 = enroll_dist_male_16 + enroll_dist_female_16
347 drop year region
348 save c_enroll_distinguished16, replace
349
350
351 use enroll_distinguished17, replace

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352 drop if charter_status == "Open Enrollment Charter"
353 drop charter_status
354 rename fhsp_dist_achieve_* enroll_dist_*_17
355 foreach x of varlist enroll_* {
356 replace `x' = 0 if `x' == .
357 replace `x' = 2.5 if `x' == -99
358 }
359 gen enroll_dist_totalmf_17 = enroll_dist_male_17 + enroll_dist_female_17
360 drop year region
361 save c_enroll_distinguished17, replace
362
363
364 use enroll_public_combo15, replace
365 drop if charterstatus == "Open Enrollment Charter"
366 drop charterstatus
367 rename endorsementcombinations endorse
368 rename districtnumber district
369 drop districtname
370 split endorse, p("/")
371 drop endorse regionnumber year
372 foreach x of varlist endorse* {
373 replace `x' = "Arts" if `x' == "Arts & Humanities"
374 replace `x' = "Business" if `x' == "Business & Industry"
375 replace `x' = "None" if `x' == "No Endorsement Declared"
376 replace `x' = "Multidisc" if `x' == "Multidisciplinary Studies"
377 replace `x' = "Public" if `x' == "Public Services"
378 }
379 gen endorse = ""
380 replace endorse = "STEM" if endorse1 == "STEM" & endorse2 == "" & endorse3 == "" & endorse4
== "" & endorse5 == ""
381 replace endorse = "Arts" if endorse1 == "Arts" & endorse2 == "" & endorse3 == "" & endorse4
== "" & endorse5 == ""
382 replace endorse = "Business" if endorse1 == "Business" & endorse2 == "" & endorse3 == "" &
endorse4 == "" & endorse5 == ""
383 replace endorse = "Multidisc" if endorse1 == "Multidisc" & endorse2 == "" & endorse3 == "" &
endorse4 == "" & endorse5 == ""
384 replace endorse = "Public" if endorse1 == "Public" & endorse2 == "" & endorse3 == "" &
endorse4 == "" & endorse5 == ""
385 replace endorse = "None" if endorse1 == "None"
386 replace endorse = "ComboSTEM" if endorse1 == "STEM" & endorse2 != ""
387 replace endorse = "ComboNoSTEM" if endorse1 != "STEM" & endorse2 != ""
388 rename fhspenrollmentcount enroll
389 drop endorse1-endorse5
390 foreach x of varlist enroll {
391 replace `x' = 0 if `x' == .
392 replace `x' = 2.5 if `x' == -9999999
393 }
394 collapse(sum) enroll, by (district endorse)
395 reshape wide enroll, i(district) j(endorse, s)
396 rename enroll* enroll_*_15
397 foreach x of varlist enroll_* {
398 replace `x' = 0 if `x' == .
399 }
400 gen enroll_FHSP_STEMSTEMCOMBO_15 = enroll_STEM_15 + enroll_ComboSTEM_15
401 gen enroll_FHSP_total_15 = enroll_Arts_15 + enroll_Business_15 + enroll_ComboNoSTEM_15 +
enroll_ComboSTEM_15 + enroll_Multidisc_15 + enroll_None_15 + enroll_Public_15 +
enroll_STEM_15
402 save c_enroll_public_combo15, replace
403
404
405 use enroll_public_combo16, replace
406 drop if charterstatus == "Open Enrollment Charter"
407 drop charterstatus
408 rename endorsementcombinations endorse
409 rename districtnumber district
410 drop districtname
411 split endorse, p("/")
412 drop endorse regionnumber year
413 foreach x of varlist endorse* {
414 replace `x' = "Arts" if `x' == "Arts & Humanities"
415 replace `x' = "Business" if `x' == "Business & Industry"

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416 replace `x' = "None" if `x' == "No Endorsement Declared"
417 replace `x' = "Multidisc" if `x' == "Multidisciplinary Studies"
418 replace `x' = "Public" if `x' == "Public Services"
419 }
420 gen endorse = ""
421 replace endorse = "STEM" if endorse1 == "STEM" & endorse2 == "" & endorse3 == "" & endorse4
== "" & endorse5 == ""
422 replace endorse = "Arts" if endorse1 == "Arts" & endorse2 == "" & endorse3 == "" & endorse4
== "" & endorse5 == ""
423 replace endorse = "Business" if endorse1 == "Business" & endorse2 == "" & endorse3 == "" &
endorse4 == "" & endorse5 == ""
424 replace endorse = "Multidisc" if endorse1 == "Multidisc" & endorse2 == "" & endorse3 == "" &
endorse4 == "" & endorse5 == ""
425 replace endorse = "Public" if endorse1 == "Public" & endorse2 == "" & endorse3 == "" &
endorse4 == "" & endorse5 == ""
426 replace endorse = "None" if endorse1 == "None"
427 replace endorse = "ComboSTEM" if endorse1 == "STEM" & endorse2 != ""
428 replace endorse = "ComboNoSTEM" if endorse1 != "STEM" & endorse2 != ""
429 rename fhspenrollmentcount enroll
430 drop endorse1-endorse5
431 foreach x of varlist enroll {
432 replace `x' = 0 if `x' == .
433 replace `x' = 2.5 if `x' == -9999999
434 }
435 collapse(sum) enroll, by (district endorse)
436 reshape wide enroll, i(district) j(endorse, s)
437 rename enroll* enroll*_16
438 foreach x of varlist enroll_* {
439 replace `x' = 0 if `x' == .
440 }
441 gen enroll_FHSP_STEMSTEMCOMBO_16 = enroll_STEM_16 + enroll_ComboSTEM_16
442 gen enroll_FHSP_total_16 = enroll_Arts_16 + enroll_Business_16 + enroll_ComboNoSTEM_16 +
enroll_ComboSTEM_16 + enroll_Multidisc_16 + enroll_None_16 + enroll_Public_16 +
enroll_STEM_16
443 save c_enroll_public_combo16, replace
444
445
446 use enroll_public_distinguished15, replace
447 drop if charterstatus == "Open Enrollment Charter"
448 drop charterstatus
449 rename regionnumber region
450 rename districtnumber district
451 rename districtname distname
452 rename fhspstudentsdistinguishedlevelof enroll_dist_15
453 foreach x of varlist ethnicity {
454 replace `x' = "Black" if `x' == "Black or African American"
455 replace `x' = "Hispanic" if `x' == "Hispanic/Latino"
456 replace `x' = "AmInd" if `x' == "American Indian or Alaska Nat"
457 replace `x' = "Hawaiian" if `x' == "Native Hawaiian/Other Pacific"
458 replace `x' = "TwoRaces" if `x' == "Two or more races"
459 }
460 drop if ethnicity == "AmInd"
461 drop if ethnicity == "TwoRaces"
462 drop if ethnicity == "Asian"
463 drop if ethnicity == "Hawaiian"
464 reshape wide enroll_dist_15, i(district) j(ethnicity, s)
465 drop year region distname
466 rename enroll_dist_15* enroll_dist*_15
467 foreach x of varlist enroll_* {
468 replace `x' = 0 if `x' == .
469 replace `x' = 2.5 if `x' == -9999999
470 }
471 save c_enroll_public_distinguished15, replace
472
473
474 use enroll_public_distinguished16, replace
475 drop if charterstatus == "Open Enrollment Charter"
476 drop charterstatus
477 rename regionnumber region
478 rename districtnumber district
479 rename districtname distname

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480 rename fhspsstudentsdistinguishedlevelof enroll_dist_16
481 foreach x of varlist ethnicity {
482 replace `x' = "Black" if `x' == "Black or African American"
483 replace `x' = "Hispanic" if `x' == "Hispanic/Latino"
484 replace `x' = "AmInd" if `x' == "American Indian or Alaska Nat"
485 replace `x' = "Hawaiian" if `x' == "Native Hawaiian/Other Pacific"
486 replace `x' = "TwoRaces" if `x' == "Two or more races"
487 }
488 drop if ethnicity == "AmInd"
489 drop if ethnicity == "TwoRaces"
490 drop if ethnicity == "Asian"
491 drop if ethnicity == "Hawaiian"
492 reshape wide enroll_dist_16, i(district) j(ethnicity, s)
493 drop year region distname
494 rename enroll_dist_16* enroll_dist_*_16
495 foreach x of varlist enroll_* {
496 replace `x' = 0 if `x' == .
497 replace `x' = 2.5 if `x' == -9999999
498 }
499 save c_enroll_public_distinguished16, replace
500
501
502 use enroll_public_distinguished17, replace
503 drop if charter_status == "Open Enrollment Charter"
504 drop region charter_status regionx_propcase american_indian_or_alaska_nat asian
native_hawaiian_other_pacific two_or_more_races
505 rename distname_propcase distname
506 rename black_or_african_american enroll_dist_Black_17
507 rename hispanic_latino enroll_dist_Hispanic_17
508 rename white enroll_dist_White_17
509 drop year distname
510 foreach x of varlist enroll* {
511 replace `x' = 0 if `x' == .
512 replace `x' = 2.5 if `x' == -999
513 }
514 save c_enroll_public_distinguished17, replace
515
516
517 use enroll_public_ecodis15, replace
518 drop if charterstatus == " OPEN ENROLLMENT CHARTER"
519 drop charterstatus
520 rename districtnumber district
521 rename districtname distname
522 drop region countyname eligibleforfreemealscount-othereconomicallydisadvantagedco
noteconomicallydisadvantagedperc totalcount othereconomicallydisadvantagedpe
523 rename noteconomicallydisadvantageddcoun noecodis
524 replace noecodis = 2.5 if noecodis == -9999999
525 merge 1:1 district using c_enroll_public_grade15
526 drop _merge
527 gen enroll_HSest_ecodis_15 = (( enroll_total_district_15 - noecodis ) /
enroll_total_district_15 ) * enroll_HStotal_district_15
528 keep distname district enroll_HSest_ecodis_15
529 save c_enroll_public_ecodis15, replace
530
531
532 use enroll_public_ecodis16, replace
533 drop if charterstatus == " OPEN ENROLLMENT CHARTER"
534 drop charterstatus
535 rename districtnumber district
536 rename districtname distname
537 drop region countyname eligibleforfreemealscount-othereconomicallydisadvantagedco
noteconomicallydisadvantagedperc totalcount othereconomicallydisadvantagedpe
538 rename noteconomicallydisadvantageddcoun noecodis
539 replace noecodis = 2.5 if noecodis == -9999999
540 merge 1:1 district using c_enroll_public_grade16
541 drop _merge
542 gen enroll_HSest_ecodis_16 = (( enroll_total_district_16 - noecodis ) /
enroll_total_district_16 ) * enroll_HStotal_district_16
543 keep distname district enroll_HSest_ecodis_16
544 save c_enroll_public_ecodis16, replace
545

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546 use enroll_public_ecodis17, replace
547 drop if charterstatus == " OPEN ENROLLMENT CHARTER"
548 drop charterstatus
549 rename districtnumber district
550 rename districtname distname
551 drop region countyname eligibleforfreemealscount-othereconomicallydisadvantagedco
552 noteconomicallydisadvantagedperc totalcount othereconomicallydisadvantagedpe
553 rename noteconomicallydisadvantageddcoun noecodis
554 replace noecodis = 2.5 if noecodis == -9999999
555 merge 1:1 district using c enroll_public_gradel7
556 drop _merge
557 gen enroll_HSest_ecodis_17 = (( enroll_total_district_17 - noecodis ) /
enroll_total_district_17 ) * enroll_HStotal_district_17
558 keep distname district enroll_HSest_ecodis_17
559 save c_enroll_public_ecodis17, replace
560
561
562 use enroll_public_ecodis16, replace
563 drop if charterstatus == " OPEN ENROLLMENT CHARTER"
564 drop charterstatus
565 rename districtnumber district
566 rename districtname distname
567 drop region countyname eligibleforfreemealscount-othereconomicallydisadvantagedco
568 noteconomicallydisadvantagedperc totalcount othereconomicallydisadvantagedpe
569 rename noteconomicallydisadvantageddcoun noecodis
570 replace noecodis = 2.5 if noecodis == -9999999
571 merge 1:1 district using c_enroll_public_gradel6
572 drop _merge
573 gen enroll_HSest_ecodis_16 = (( enroll_total_district_16 - noecodis ) /
enroll_total_district_16 ) * enroll_HStotal_district_16
574 keep distname district enroll_HSest_ecodis_16
575 save c_enroll_public_ecodis16, replace
576
577 use enroll_public_ecodis17, replace
578 drop if charterstatus == " OPEN ENROLLMENT CHARTER"
579 drop charterstatus
580 rename districtnumber district
581 rename districtname distname
582 drop region countyname eligibleforfreemealscount-othereconomicallydisadvantagedco
583 noteconomicallydisadvantagedperc totalcount othereconomicallydisadvantagedpe
584 rename noteconomicallydisadvantageddcoun noecodis
585 replace noecodis = 2.5 if noecodis == -9999999
586 merge 1:1 district using c_enroll_public_gradel7
587 drop _merge
588 gen enroll_HSest_ecodis_17 = (( enroll_total_district_17 - noecodis ) /
enroll_total_district_17 ) * enroll_HStotal_district_17
589 keep distname district enroll_HSest_ecodis_17
590 save c_enroll_public_ecodis17, replace
591
592 use enroll_public_gradel5, clear
593 rename districtnumber district
594 rename districtname distname
595 drop if charterstatus == "OPEN ENROLLMENT CHARTER"
596 drop charterstatus
597 drop if gradelevelname == "Early Education"
598 rename gradelevelname grade
599 replace grade = "PK" if grade == "Pre-kindergarten"
600 replace grade = "K" if grade == "Kindergarten"
601 replace grade = "1" if grade == "Grade 1"
602 replace grade = "2" if grade == "Grade 2"
603 replace grade = "3" if grade == "Grade 3"
604 replace grade = "4" if grade == "Grade 4"
605 replace grade = "5" if grade == "Grade 5"
606 replace grade = "6" if grade == "Grade 6"
607 replace grade = "7" if grade == "Grade 7"
608 replace grade = "8" if grade == "Grade 8"
609 replace grade = "9" if grade == "Grade 9"
610 replace grade = "10" if grade == "Grade 10"

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611 replace grade = "11" if grade == "Grade 11"
612 replace grade = "12" if grade == "Grade 12"
613 reshape wide enrollmentbygradelevel, i(district) j(grade, s)
614 rename enrollmentbygradelevel* gr*
615 foreach x of varlist gr* {
616 replace `x' = 0 if `x' == .
617 replace `x' = 2.5 if `x' == -9999999
618 }
619 gen enroll_total_district_15 = grPK + grK + gr1 + gr2 + gr3 + gr4 + gr5 + gr6 + gr7 + gr8 +
gr9 + gr10 + gr11 + gr12
620 gen enroll_HStotal_district_15 = gr9 + gr10 + gr11 + gr12
621 drop gr* year-countyname
622 save c_enroll_public_gradel5, replace
623
624
625 use enroll_public_gradel6, clear
626 rename districtnumber district
627 rename districtname distname
628 drop if charterstatus == "OPEN ENROLLMENT CHARTER"
629 drop charterstatus
630 drop if gradelevelname == "Early Education"
631 rename gradelevelname grade
632 replace grade = "PK" if grade == "Pre-kindergarten"
633 replace grade = "K" if grade == "Kindergarten"
634 replace grade = "1" if grade == "Grade 1"
635 replace grade = "2" if grade == "Grade 2"
636 replace grade = "3" if grade == "Grade 3"
637 replace grade = "4" if grade == "Grade 4"
638 replace grade = "5" if grade == "Grade 5"
639 replace grade = "6" if grade == "Grade 6"
640 replace grade = "7" if grade == "Grade 7"
641 replace grade = "8" if grade == "Grade 8"
642 replace grade = "9" if grade == "Grade 9"
643 replace grade = "10" if grade == "Grade 10"
644 replace grade = "11" if grade == "Grade 11"
645 replace grade = "12" if grade == "Grade 12"
646 reshape wide enrollmentbygradelevel, i(district) j(grade, s)
647 rename enrollmentbygradelevel* gr*
648 foreach x of varlist gr* {
649 replace `x' = 0 if `x' == .
650 replace `x' = 2.5 if `x' == -9999999
651 }
652 gen enroll_total_district_16 = grPK + grK + gr1 + gr2 + gr3 + gr4 + gr5 + gr6 + gr7 + gr8 +
gr9 + gr10 + gr11 + gr12
653 gen enroll_HStotal_district_16 = gr9 + gr10 + gr11 + gr12
654 drop gr* year-countyname
655 save c_enroll_public_gradel6, replace
656
657
658 use enroll_public_gradel7, clear
659 rename districtnumber district
660 rename districtname distname
661 drop if charterstatus == "OPEN ENROLLMENT CHARTER"
662 drop charterstatus
663 drop if gradelevelname == "Early Education"
664 rename gradelevelname grade
665 replace grade = "PK" if grade == "Pre-kindergarten"
666 replace grade = "K" if grade == "Kindergarten"
667 replace grade = "1" if grade == "Grade 1"
668 replace grade = "2" if grade == "Grade 2"
669 replace grade = "3" if grade == "Grade 3"
670 replace grade = "4" if grade == "Grade 4"
671 replace grade = "5" if grade == "Grade 5"
672 replace grade = "6" if grade == "Grade 6"
673 replace grade = "7" if grade == "Grade 7"
674 replace grade = "8" if grade == "Grade 8"
675 replace grade = "9" if grade == "Grade 9"
676 replace grade = "10" if grade == "Grade 10"
677 replace grade = "11" if grade == "Grade 11"
678 replace grade = "12" if grade == "Grade 12"
679 reshape wide enrollmentbygradelevel, i(district) j(grade, s)

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680 rename enrollmentbygradelevel* gr*
681 foreach x of varlist gr* {
682   replace `x' = 0 if `x' == .
683   replace `x' = 2.5 if `x' == -9999999
684 }
685 gen enroll_total_district_17 = grPK + grK + gr1 + gr2 + gr3 + gr4 + gr5 + gr6 + gr7 + gr8 +
gr9 + gr10 + gr11 + gr12
686 gen enroll_HStotal_district_17 = gr9 + gr10 + gr11 + gr12
687 drop gr* year-countyname
688 save c_enroll_public_gradel17, replace
689
690
691 use enroll_public_gradegender15, clear
692 rename districtnumber district
693 rename districtname distname
694 drop if charterstatus == "OPEN ENROLLMENT CHARTER"
695 drop charterstatus region countyname
696 rename gradelevelname grade
697 drop if grade == "Early Education"
698 drop if grade == "Pre-kindergarten"
699 drop if grade == "Kindergarten"
700 drop if grade == "Grade 1"
701 drop if grade == "Grade 2"
702 drop if grade == "Grade 3"
703 drop if grade == "Grade 4"
704 drop if grade == "Grade 5"
705 drop if grade == "Grade 6"
706 drop if grade == "Grade 7"
707 drop if grade == "Grade 8"
708 replace grade = "9" if grade == "Grade 9"
709 replace grade = "10" if grade == "Grade 10"
710 replace grade = "11" if grade == "Grade 11"
711 replace grade = "12" if grade == "Grade 12"
712 rename gendername gender
713 rename gendercount enroll
714 gen j = gender+" "+grade
715 drop grade gender
716 reshape wide enroll, i(district) j(j, s)
717 rename enrollMale_* enroll_HStotal_Malegr*_15
718 rename enrollFemale_* enroll_HStotal_Femalegr*_15
719 foreach x of varlist enroll_* {
720   replace `x' = 0 if `x' == .
721   replace `x' = 2.5 if `x' == -9999999
722 }
723 gen enroll_HStotal_male_15 = enroll_HStotal_Malegr9_15 + enroll_HStotal_Malegr12_15 +
enroll_HStotal_Malegr11_15 + enroll_HStotal_Malegr10_15
724 gen enroll_HStotal_female_15 = enroll_HStotal_Femalegr9_15 + enroll_HStotal_Femalegr12_15 +
enroll_HStotal_Femalegr11_15 + enroll_HStotal_Femalegr10_15
725 drop enroll_HStotal_Femalegr10_15-enroll_HStotal_Malegr9_15
726 drop year distname
727 save c_enroll_public_gradegender15, replace
728
729
730 use enroll_public_gradegender16, clear
731 rename districtnumber district
732 rename districtname distname
733 drop if charterstatus == "OPEN ENROLLMENT CHARTER"
734 drop charterstatus region countyname
735 rename gradelevelname grade
736 drop if grade == "Early Education"
737 drop if grade == "Pre-kindergarten"
738 drop if grade == "Kindergarten"
739 drop if grade == "Grade 1"
740 drop if grade == "Grade 2"
741 drop if grade == "Grade 3"
742 drop if grade == "Grade 4"
743 drop if grade == "Grade 5"
744 drop if grade == "Grade 6"
745 drop if grade == "Grade 7"
746 drop if grade == "Grade 8"
747 replace grade = "9" if grade == "Grade 9"

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748 replace grade = "10" if grade == "Grade 10"
749 replace grade = "11" if grade == "Grade 11"
750 replace grade = "12" if grade == "Grade 12"
751 rename gendername gender
752 rename gendercount enroll
753 gen j = gender+"_"+grade
754 drop grade gender
755 reshape wide enroll, i(district) j(j, s)
756 rename enrollMale_* enroll_HStotal_Malegr*_16
757 rename enrollFemale_* enroll_HStotal_Femalegr*_16
758 foreach x of varlist enroll_* {
759 replace `x' = 0 if `x' == .
760 replace `x' = 2.5 if `x' == -9999999
761 }
762 gen enroll_HStotal_male_16 = enroll_HStotal_Malegr9_16 + enroll_HStotal_Malegr12_16 +
enroll_HStotal_Malegr11_16 + enroll_HStotal_Malegr10_16
763 gen enroll_HStotal_female_16 = enroll_HStotal_Femalegr9_16 + enroll_HStotal_Femalegr12_16 +
enroll_HStotal_Femalegr11_16 + enroll_HStotal_Femalegr10_16
764 drop enroll_HStotal_Femalegr10_16-enroll_HStotal_Malegr9_16
765 drop year distname
766 save c_enroll_public_gradegender16, replace
767
768
769 use enroll_public_gradegender17, clear
770 rename districtnumber district
771 rename districtname distname
772 drop if charterstatus == "OPEN ENROLLMENT CHARTER"
773 drop charterstatus region countyname
774 rename gradelevelname grade
775 drop if grade == "Early Education"
776 drop if grade == "Pre-kindergarten"
777 drop if grade == "Kindergarten"
778 drop if grade == "Grade 1"
779 drop if grade == "Grade 2"
780 drop if grade == "Grade 3"
781 drop if grade == "Grade 4"
782 drop if grade == "Grade 5"
783 drop if grade == "Grade 6"
784 drop if grade == "Grade 7"
785 drop if grade == "Grade 8"
786 replace grade = "9" if grade == "Grade 9"
787 replace grade = "10" if grade == "Grade 10"
788 replace grade = "11" if grade == "Grade 11"
789 replace grade = "12" if grade == "Grade 12"
790 rename gendername gender
791 rename gendercount enroll
792 gen j = gender+"_"+grade
793 drop grade gender
794 reshape wide enroll, i(district) j(j, s)
795 rename enrollMale_* enroll_HStotal_Malegr*_17
796 rename enrollFemale_* enroll_HStotal_Femalegr*_17
797 foreach x of varlist enroll_* {
798 replace `x' = 0 if `x' == .
799 replace `x' = 2.5 if `x' == -9999999
800 }
801 gen enroll_HStotal_male_17 = enroll_HStotal_Malegr9_17 + enroll_HStotal_Malegr12_17 +
enroll_HStotal_Malegr11_17 + enroll_HStotal_Malegr10_17
802 gen enroll_HStotal_female_17 = enroll_HStotal_Femalegr9_17 + enroll_HStotal_Femalegr12_17 +
enroll_HStotal_Femalegr11_17 + enroll_HStotal_Femalegr10_17
803 drop enroll_HStotal_Femalegr10_17-enroll_HStotal_Malegr9_17
804 drop year distname
805 save c_enroll_public_gradegender17, replace
806
807
808 use enroll_public_graderace15, clear
809 rename districtnumber district
810 rename districtname distname
811 drop if charterstatus == "OPEN ENROLLMENT CHARTER"
812 drop charterstatus region countyname
813 rename gradelevelname grade
814 drop if grade == "Early Education"

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815 drop if grade == "Pre-kindergarten"
816 drop if grade == "Kindergarten"
817 drop if grade == "Grade 1"
818 drop if grade == "Grade 2"
819 drop if grade == "Grade 3"
820 drop if grade == "Grade 4"
821 drop if grade == "Grade 5"
822 drop if grade == "Grade 6"
823 drop if grade == "Grade 7"
824 drop if grade == "Grade 8"
825 replace grade = "9" if grade == "Grade 9"
826 replace grade = "10" if grade == "Grade 10"
827 replace grade = "11" if grade == "Grade 11"
828 replace grade = "12" if grade == "Grade 12"
829 rename ethnicityname ethnicity
830 rename ethnicitycount enroll
831 foreach x of varlist ethnicity {
832   replace `x' = "Black" if `x' == "Black or African American"
833 }
834 keep if ethnicity == "White" | ethnicity == "Black" | ethnicity == "Hispanic"
835 gen j = ethnicity+"_"+grade
836 drop grade ethnicity
837 reshape wide enroll, i(district) j(j, s)
838 rename enrollBlack_* enroll_HStotal_Blackgr*_15
839 rename enrollWhite_* enroll_HStotal_Whitegr*_15
840 rename enrollHispanic_* enroll_HStotal_Hispanicgr*_15
841 foreach x of varlist enroll_* {
842   replace `x' = 0 if `x' == .
843   replace `x' = 2.5 if `x' == -9999999
844 }
845 gen enroll_HStotal_Black_15 = enroll_HStotal_Blackgr9_15 + enroll_HStotal_Blackgr12_15 +
enroll_HStotal_Blackgr11_15 + enroll_HStotal_Blackgr10_15
846 gen enroll_HStotal_White_15 = enroll_HStotal_Whitegr9_15 + enroll_HStotal_Whitegr12_15 +
enroll_HStotal_Whitegr11_15 + enroll_HStotal_Whitegr10_15
847 gen enroll_HStotal_Hispanic_15 = enroll_HStotal_Hispanicgr9_15 +
enroll_HStotal_Hispanicgr12_15 + enroll_HStotal_Hispanicgr11_15 +
enroll_HStotal_Hispanicgr10_15
848 drop enroll_HStotal_Blackgr10_15-enroll_HStotal_Whitegr9_15
849 drop year distname
850 save c_enroll_public_graderace15, replace
851
852
853 use enroll_public_graderace16, clear
854 rename districtnumber district
855 rename districtname distname
856 drop if charterstatus == "OPEN ENROLLMENT CHARTER"
857 drop charterstatus region countyname
858 rename gradelevelname grade
859 drop if grade == "Early Education"
860 drop if grade == "Pre-kindergarten"
861 drop if grade == "Kindergarten"
862 drop if grade == "Grade 1"
863 drop if grade == "Grade 2"
864 drop if grade == "Grade 3"
865 drop if grade == "Grade 4"
866 drop if grade == "Grade 5"
867 drop if grade == "Grade 6"
868 drop if grade == "Grade 7"
869 drop if grade == "Grade 8"
870 replace grade = "9" if grade == "Grade 9"
871 replace grade = "10" if grade == "Grade 10"
872 replace grade = "11" if grade == "Grade 11"
873 replace grade = "12" if grade == "Grade 12"
874 rename ethnicityname ethnicity
875 rename ethnicitycount enroll
876 foreach x of varlist ethnicity {
877   replace `x' = "Black" if `x' == "Black or African American"
878 }
879 keep if ethnicity == "White" | ethnicity == "Black" | ethnicity == "Hispanic"
880 gen j = ethnicity+"_"+grade
881 drop grade ethnicity

```

```

882 reshape wide enroll, i(district) j(j, s)
883 rename enrollBlack_* enroll_HStotal_Blackgr*_16
884 rename enrollWhite_* enroll_HStotal_Whitegr*_16
885 rename enrollHispanic_* enroll_HStotal_Hispanicgr*_16
886 foreach x of varlist enroll_* {
887 replace `x' = 0 if `x' == .
888 replace `x' = 2.5 if `x' == -9999999
889 }
890 gen enroll_HStotal_Black_16 = enroll_HStotal_Blackgr9_16 + enroll_HStotal_Blackgr12_16 +
enroll_HStotal_Blackgr11_16 + enroll_HStotal_Blackgr10_16
891 gen enroll_HStotal_White_16 = enroll_HStotal_Whitegr9_16 + enroll_HStotal_Whitegr12_16 +
enroll_HStotal_Whitegr11_16 + enroll_HStotal_Whitegr10_16
892 gen enroll_HStotal_Hispanic_16 = enroll_HStotal_Hispanicgr9_16 +
enroll_HStotal_Hispanicgr12_16 + enroll_HStotal_Hispanicgr11_16 +
enroll_HStotal_Hispanicgr10_16
893 drop enroll_HStotal_Blackgr10_16-enroll_HStotal_Whitegr9_16
894 drop year distname
895 save c_enroll_public_graderace16, replace
896
897
898 use enroll_public_graderace17, clear
899 rename districtnumber district
900 rename districtname distname
901 drop if charterstatus == "OPEN ENROLLMENT CHARTER"
902 drop charterstatus region countyname
903 rename gradelevelname grade
904 drop if grade == "Early Education"
905 drop if grade == "Pre-kindergarten"
906 drop if grade == "Kindergarten"
907 drop if grade == "Grade 1"
908 drop if grade == "Grade 2"
909 drop if grade == "Grade 3"
910 drop if grade == "Grade 4"
911 drop if grade == "Grade 5"
912 drop if grade == "Grade 6"
913 drop if grade == "Grade 7"
914 drop if grade == "Grade 8"
915 replace grade = "9" if grade == "Grade 9"
916 replace grade = "10" if grade == "Grade 10"
917 replace grade = "11" if grade == "Grade 11"
918 replace grade = "12" if grade == "Grade 12"
919 rename ethnicityname ethnicity
920 rename ethnicitycount enroll
921 foreach x of varlist ethnicity {
922 replace `x' = "Black" if `x' == "Black or African American"
923 }
924 keep if ethnicity == "White" | ethnicity == "Black" | ethnicity == "Hispanic"
925 gen j = ethnicity+"_"+grade
926 drop grade ethnicity
927 reshape wide enroll, i(district) j(j, s)
928 rename enrollBlack_* enroll_HStotal_Blackgr*_17
929 rename enrollWhite_* enroll_HStotal_Whitegr*_17
930 rename enrollHispanic_* enroll_HStotal_Hispanicgr*_17
931 foreach x of varlist enroll_* {
932 replace `x' = 0 if `x' == .
933 replace `x' = 2.5 if `x' == -9999999
934 }
935 gen enroll_HStotal_Black_17 = enroll_HStotal_Blackgr9_17 + enroll_HStotal_Blackgr12_17 +
enroll_HStotal_Blackgr11_17 + enroll_HStotal_Blackgr10_17
936 gen enroll_HStotal_White_17 = enroll_HStotal_Whitegr9_17 + enroll_HStotal_Whitegr12_17 +
enroll_HStotal_Whitegr11_17 + enroll_HStotal_Whitegr10_17
937 gen enroll_HStotal_Hispanic_17 = enroll_HStotal_Hispanicgr9_17 +
enroll_HStotal_Hispanicgr12_17 + enroll_HStotal_Hispanicgr11_17 +
enroll_HStotal_Hispanicgr10_17
938 drop enroll_HStotal_Blackgr10_17-enroll_HStotal_Whitegr9_17
939 drop year distname
940 save c_enroll_public_graderace17, replace
941
942
943 use enroll_public_lep15, replace
944 drop if charterstatus == "OPEN ENROLLMENT CHARTER"

```

```

945 drop charterstatus
946 rename districtnumber district
947 rename districtname distname
948 drop ee-v17
949 keep if category == "A. ELLs IDENTIFIED"
950 drop category
951 foreach x of varlist v* {
952 replace `x' = 0 if `x' == .
953 replace `x' = 2.5 if `x' == -9999999
954 }
955 gen enroll_total_lep_15=v18+v19+v20+v21
956 drop v18-v21
957 save c_enroll_public_lep_15, replace
958
959
960 use enroll_public_lep16, replace
961 drop if charterstatus == "OPEN ENROLLMENT CHARTER"
962 drop charterstatus
963 rename districtnumber district
964 rename districtname distname
965 drop ee-v17
966 keep if category == "A. ELLs IDENTIFIED"
967 drop category
968 foreach x of varlist v* {
969 replace `x' = 0 if `x' == .
970 replace `x' = 2.5 if `x' == -9999999
971 }
972 gen enroll_total_lep_16=v18+v19+v20+v21
973 drop v18-v21
974 save c_enroll_public_lep_16, replace
975
976
977 use enroll_public_lep17, replace
978 drop if charterstatus == "OPEN ENROLLMENT CHARTER"
979 drop charterstatus
980 rename districtnumber district
981 rename districtname distname
982 drop ee-v17
983 keep if category == "A. ELLs IDENTIFIED"
984 drop category
985 foreach x of varlist v* {
986 replace `x' = 0 if `x' == .
987 gen `x'_divide = ((`x'-1)/5)+1
988 gen `x'_5 = int(`x'_divide)
989 drop `x'_divide
990 replace `x'_5 = 1 if `x' == -9999999
991 drop `x'
992 rename `x'_5 `x'
993 }
994 gen enroll_total_lep_17=v18+v19+v20+v21
995 drop v18-v21
996 save c_enroll_public_lep_17, replace
997
998
999 use c_districttype, replace
1000 merge 1:1 district using c_enroll_public_grade15
1001 drop _merge
1002 merge 1:1 district using c_enroll_public_grade16
1003 drop _merge
1004 merge 1:1 district using c_enroll_public_grade17
1005 drop _merge
1006 merge 1:1 district using c_enroll_public_gradegender15
1007 drop _merge
1008 merge 1:1 district using c_enroll_public_gradegender16
1009 drop _merge
1010 merge 1:1 district using c_enroll_public_gradegender17
1011 drop _merge
1012 merge 1:1 district using c_enroll_public_graderace15
1013 drop _merge
1014 merge 1:1 district using c_enroll_public_graderace16
1015 drop _merge

```



```
1016 merge 1:1 district using c_enroll_public_graderace17
1017 drop _merge
1018 merge 1:1 district using c_enroll_public_lep_15
1019 drop _merge year
1020 merge 1:1 district using c_enroll_public_lep_16
1021 drop _merge year
1022 merge 1:1 district using c_enroll_public_lep_17
1023 drop _merge year
1024 merge 1:1 district using c_enroll_public_ecodis15
1025 drop _merge
1026 merge 1:1 district using c_enroll_public_ecodis16
1027 drop _merge
1028 merge 1:1 district using c_enroll_public_ecodis17
1029 drop _merge
1030 merge 1:1 district using c_enroll_combo15
1031 drop _merge year
1032 merge 1:1 district using c_enroll_public_combo15
1033 drop _merge
1034 merge 1:1 district using c_enroll_combo16
1035 drop _merge year
1036 merge 1:1 district using c_enroll_public_combo16
1037 drop _merge
1038 merge 1:1 district using c_enroll_combo17
1039 drop _merge
1040 merge 1:1 district using c_enroll_distinguished15
1041 drop _merge
1042 merge 1:1 district using c_enroll_public_distinguished15
1043 drop _merge
1044 merge 1:1 district using c_enroll_distinguished16
1045 drop _merge
1046 merge 1:1 district using c_enroll_public_distinguished16
1047 drop _merge
1048 merge 1:1 district using c_enroll_distinguished17
1049 drop _merge
1050 merge 1:1 district using c_enroll_public_distinguished17
1051 drop _merge
1052 drop if enroll_HStotal_district_15 == 0 & enroll_HStotal_district_16 == 0 &
enroll_HStotal_district_17 == 0
1053 foreach x of varlist enroll* {
1054 replace `x' = 0 if `x' == .
1055 }
1056 save c_enroll_final_wide, replace
1057
1058
1059 use c_districttype, replace
1060 merge 1:1 district using c_enroll_public_gradel5
1061 drop _merge
1062 merge 1:1 district using c_enroll_public_gradegender15
1063 drop _merge
1064 merge 1:1 district using c_enroll_public_graderace15
1065 drop _merge
1066 merge 1:1 district using c_enroll_public_lep_15
1067 drop _merge year
1068 merge 1:1 district using c_enroll_public_ecodis15
1069 drop _merge
1070 merge 1:1 district using c_enroll_combo15
1071 drop _merge year
1072 merge 1:1 district using c_enroll_public_combo15
1073 drop _merge
1074 merge 1:1 district using c_enroll_distinguished15
1075 drop _merge
1076 merge 1:1 district using c_enroll_public_distinguished15
1077 drop _merge
1078 gen year = 2015
1079 order year, a(urbanicity)
1080 rename *_15 *
1081 save c_enroll_long15, replace
1082
1083 use c_districttype, replace
1084 merge 1:1 district using c_enroll_public_gradel6
1085 drop _merge
```

```

1086 merge 1:1 district using c_enroll_public_gradegender16
1087 drop _merge
1088 merge 1:1 district using c_enroll_public_graderace16
1089 drop _merge
1090 merge 1:1 district using c_enroll_public_lep_16
1091 drop _merge year
1092 merge 1:1 district using c_enroll_public_ecodis16
1093 drop _merge
1094 merge 1:1 district using c_enroll_combo16
1095 drop _merge year
1096 merge 1:1 district using c_enroll_public_combo16
1097 drop _merge
1098 merge 1:1 district using c_enroll_distinguished16
1099 drop _merge
1100 merge 1:1 district using c_enroll_public_distinguished16
1101 drop _merge
1102 gen year = 2016
1103 order year, a(urbanicity)
1104 rename *_16 *
1105 save c_enroll_long16, replace
1106
1107 use c_districttype, replace
1108 merge 1:1 district using c_enroll_public_grade17
1109 drop _merge
1110 merge 1:1 district using c_enroll_public_gradegender17
1111 drop _merge
1112 merge 1:1 district using c_enroll_public_graderace17
1113 drop _merge
1114 merge 1:1 district using c_enroll_public_lep_17
1115 drop _merge year
1116 merge 1:1 district using c_enroll_public_ecodis17
1117 drop _merge
1118 merge 1:1 district using c_enroll_combo17
1119 drop _merge
1120 merge 1:1 district using c_enroll_distinguished17
1121 drop _merge
1122 merge 1:1 district using c_enroll_public_distinguished17
1123 drop _merge
1124 gen year = 2017
1125 order year, a(urbanicity)
1126 rename *_17 *
1127 save c_enroll_long17, replace
1128
1129 use c_enroll_long15, replace
1130 append using c_enroll_long16
1131 append using c_enroll_long17
1132 drop if enroll_HStotal_district == 0
1133 foreach x of varlist enroll* {
1134   replace `x' = 0 if `x' == .
1135 }
1136 save c_enroll_final_long, replace
1137
1138
1139 use c_enroll_final_long, replace
1140 gen p_enroll_fhsp_total = enroll_FHSP_total/enroll_HStotal_district
1141 gen p_enroll_fhspB_totalB = enroll_FHSP_Black/enroll_HStotal_Black
1142 gen p_enroll_fhspH_totalH = enroll_FHSP_Hispanic/enroll_HStotal_Hispanic
1143 gen p_enroll_fhspW_totalW = enroll_FHSP_White/enroll_HStotal_White
1144 gen p_enroll_fhspL_totalL = enroll_FHSP_LEP/enroll_HStotal_lep
1145 gen p_enroll_fhspE_totalE = enroll_FHSP_Eco/enroll_HStotal_eco
1146 gen p_enroll_fhspM_totalM = enroll_FHSP_Male/enroll_HStotal_male
1147 gen p_enroll_fhspF_totalF = enroll_FHSP_Female/enroll_HStotal_female
1148 gen p_enroll_Arts_fhsp = enroll_Arts/enroll_FHSP_total
1149 gen p_enroll_ArtsB_fhspB = enroll_Arts_Black/enroll_FHSP_Black
1150 gen p_enroll_ArtsH_fhspH = enroll_Arts_Hispanic/enroll_FHSP_Hispanic
1151 gen p_enroll_ArtsW_fhspW = enroll_Arts_White/enroll_FHSP_White
1152 gen p_enroll_ArtsL_fhspL = enroll_Arts_LEP/enroll_FHSP_LEP
1153 gen p_enroll_ArtsE_fhspE = enroll_Arts_Eco/enroll_FHSP_Eco
1154 gen p_enroll_ArtsM_fhspM = enroll_Arts_Male/enroll_FHSP_Male
1155 gen p_enroll_ArtsF_fhspF = enroll_Arts_Female/enroll_FHSP_Female
1156 gen p_enroll_Business_fhsp = enroll_Business/enroll_FHSP_total

```

1157 gen p_enroll_BusinessB_fhspB = enroll_Business_Black/enroll_FHSP_Black
1158 gen p_enroll_BusinessH_fhspH = enroll_Business_Hispanic/enroll_FHSP_Hispanic
1159 gen p_enroll_BusinessW_fhspW = enroll_Business_White/enroll_FHSP_White
1160 gen p_enroll_BusinessL_fhspL = enroll_Business_LEP/enroll_FHSP_LEP
1161 gen p_enroll_BusinessE_fhspE = enroll_Business_Eco/enroll_FHSP_Eco
1162 gen p_enroll_BusinessM_fhspM = enroll_Business_Male/enroll_FHSP_Male
1163 gen p_enroll_BusinessF_fhspF = enroll_Business_Female/enroll_FHSP_Female
1164 gen p_enroll_Public_fhsp = enroll_Public/enroll_FHSP_total
1165 gen p_enroll_PublicB_fhspB = enroll_Public_Black/enroll_FHSP_Black
1166 gen p_enroll_PublicH_fhspH = enroll_Public_Hispanic/enroll_FHSP_Hispanic
1167 gen p_enroll_PublicW_fhspW = enroll_Public_White/enroll_FHSP_White
1168 gen p_enroll_PublicL_fhspL = enroll_Public_LEP/enroll_FHSP_LEP
1169 gen p_enroll_PublicE_fhspE = enroll_Public_Eco/enroll_FHSP_Eco
1170 gen p_enroll_PublicM_fhspM = enroll_Public_Male/enroll_FHSP_Male
1171 gen p_enroll_PublicF_fhspF = enroll_Public_Female/enroll_FHSP_Female
1172 gen p_enroll_Multidisc_fhsp = enroll_Multidisc/enroll_FHSP_total
1173 gen p_enroll_MultidiscB_fhspB = enroll_Multidisc_Black/enroll_FHSP_Black
1174 gen p_enroll_MultidiscH_fhspH = enroll_Multidisc_Hispanic/enroll_FHSP_Hispanic
1175 gen p_enroll_MultidiscW_fhspW = enroll_Multidisc_White/enroll_FHSP_White
1176 gen p_enroll_MultidiscL_fhspL = enroll_Multidisc_LEP/enroll_FHSP_LEP
1177 gen p_enroll_MultidiscE_fhspE = enroll_Multidisc_Eco/enroll_FHSP_Eco
1178 gen p_enroll_MultidiscM_fhspM = enroll_Multidisc_Male/enroll_FHSP_Male
1179 gen p_enroll_MultidiscF_fhspF = enroll_Multidisc_Female/enroll_FHSP_Female
1180 gen p_enroll_STEM_fhsp = enroll_STEM/enroll_FHSP_total
1181 gen p_enroll_STEMB_fhspB = enroll_STEM_Black/enroll_FHSP_Black
1182 gen p_enroll_STEMH_fhspH = enroll_STEM_Hispanic/enroll_FHSP_Hispanic
1183 gen p_enroll_STEMW_fhspW = enroll_STEM_White/enroll_FHSP_White
1184 gen p_enroll_STEML_fhspL = enroll_STEM_LEP/enroll_FHSP_LEP
1185 gen p_enroll_STEME_fhspE = enroll_STEM_Eco/enroll_FHSP_Eco
1186 gen p_enroll_STEMM_fhspM = enroll_STEM_Male/enroll_FHSP_Male
1187 gen p_enroll_STEMF_fhspF = enroll_STEM_Female/enroll_FHSP_Female
1188 gen p_enroll_ComboSTEM_fhsp = enroll_ComboSTEM/enroll_FHSP_total
1189 gen p_enroll_ComboSTEMB_fhspB = enroll_ComboSTEM_Black/enroll_FHSP_Black
1190 gen p_enroll_ComboSTEMH_fhspH = enroll_ComboSTEM_Hispanic/enroll_FHSP_Hispanic
1191 gen p_enroll_ComboSTEMW_fhspW = enroll_ComboSTEM_White/enroll_FHSP_White
1192 gen p_enroll_ComboSTEML_fhspL = enroll_ComboSTEM_LEP/enroll_FHSP_LEP
1193 gen p_enroll_ComboSTEME_fhspE = enroll_ComboSTEM_Eco/enroll_FHSP_Eco
1194 gen p_enroll_ComboSTEMM_fhspM = enroll_ComboSTEM_Male/enroll_FHSP_Male
1195 gen p_enroll_ComboSTEMF_fhspF = enroll_ComboSTEM_Female/enroll_FHSP_Female
1196 gen p_enroll_ComboNoSTEM_fhsp = enroll_ComboNoSTEM/enroll_FHSP_total
1197 gen p_enroll_ComboNoSTEMB_fhspB = enroll_ComboNoSTEM_Black/enroll_FHSP_Black
1198 gen p_enroll_ComboNoSTEMH_fhspH = enroll_ComboNoSTEM_Hispanic/enroll_FHSP_Hispanic
1199 gen p_enroll_ComboNoSTEMW_fhspW = enroll_ComboNoSTEM_White/enroll_FHSP_White
1200 gen p_enroll_ComboNoSTEML_fhspL = enroll_ComboNoSTEM_LEP/enroll_FHSP_LEP
1201 gen p_enroll_ComboNoSTEME_fhspE = enroll_ComboNoSTEM_Eco/enroll_FHSP_Eco
1202 gen p_enroll_ComboNoSTEMM_fhspM = enroll_ComboNoSTEM_Male/enroll_FHSP_Male
1203 gen p_enroll_ComboNoSTEMF_fhspF = enroll_ComboNoSTEM_Female/enroll_FHSP_Female
1204 gen p_enroll_ArtsB_Arts = enroll_Arts_Black/enroll_Arts
1205 gen p_enroll_ArtsH_Arts = enroll_Arts_Hispanic/enroll_Arts
1206 gen p_enroll_ArtsW_Arts = enroll_Arts_White/enroll_Arts
1207 gen p_enroll_ArtsL_Arts = enroll_Arts_LEP/enroll_Arts
1208 gen p_enroll_ArtsE_Arts = enroll_Arts_Eco/enroll_Arts
1209 gen p_enroll_ArtsM_Arts = enroll_Arts_Male/enroll_Arts
1210 gen p_enroll_ArtsF_Arts = enroll_Arts_Female/enroll_Arts
1211 gen p_enroll_BusinessB_Business = enroll_Business_Black/enroll_Business
1212 gen p_enroll_BusinessH_Business = enroll_Business_Hispanic/enroll_Business
1213 gen p_enroll_BusinessW_Business = enroll_Business_White/enroll_Business
1214 gen p_enroll_BusinessL_Business = enroll_Business_LEP/enroll_Business
1215 gen p_enroll_BusinessE_Business = enroll_Business_Eco/enroll_Business
1216 gen p_enroll_BusinessM_Business = enroll_Business_Male/enroll_Business
1217 gen p_enroll_BusinessF_Business = enroll_Business_Female/enroll_Business
1218 gen p_enroll_PublicB_Public = enroll_Public_Black/enroll_Public
1219 gen p_enroll_PublicH_Public = enroll_Public_Hispanic/enroll_Public
1220 gen p_enroll_PublicW_Public = enroll_Public_White/enroll_Public
1221 gen p_enroll_PublicL_Public = enroll_Public_LEP/enroll_Public
1222 gen p_enroll_PublicE_Public = enroll_Public_Eco/enroll_Public
1223 gen p_enroll_PublicM_Public = enroll_Public_Male/enroll_Public
1224 gen p_enroll_PublicF_Public = enroll_Public_Female/enroll_Public
1225 gen p_enroll_MultidiscB_Multidisc = enroll_Multidisc_Black/enroll_Multidisc
1226 gen p_enroll_MultidiscH_Multidisc = enroll_Multidisc_Hispanic/enroll_Multidisc
1227 gen p_enroll_MultidiscW_Multidisc = enroll_Multidisc_White/enroll_Multidisc

```

1228 gen p_enroll_MultidiscL_Multidisc = enroll_Multidisc_LEP/enroll_Multidisc
1229 gen p_enroll_MultidiscE_Multidisc = enroll_Multidisc_Eco/enroll_Multidisc
1230 gen p_enroll_MultidiscM_Multidisc = enroll_Multidisc_Male/enroll_Multidisc
1231 gen p_enroll_MultidiscF_Multidisc = enroll_Multidisc_Female/enroll_Multidisc
1232 gen p_enroll_STEMB_STEM = enroll_STEM_Black/enroll_STEM
1233 gen p_enroll_STEMH_STEM = enroll_STEM_Hispanic/enroll_STEM
1234 gen p_enroll_STEMW_STEM = enroll_STEM_White/enroll_STEM
1235 gen p_enroll_STEML_STEM = enroll_STEM_LEP/enroll_STEM
1236 gen p_enroll_STEME_STEM = enroll_STEM_Eco/enroll_STEM
1237 gen p_enroll_STEMM_STEM = enroll_STEM_Male/enroll_STEM
1238 gen p_enroll_STEMF_STEM = enroll_STEM_Female/enroll_STEM
1239 gen p_enroll_CombostEMB_CombostEM = enroll_CombostEM_Black/enroll_CombostEM
1240 gen p_enroll_CombostEMH_CombostEM = enroll_CombostEM_Hispanic/enroll_CombostEM
1241 gen p_enroll_CombostEMW_CombostEM = enroll_CombostEM_White/enroll_CombostEM
1242 gen p_enroll_CombostEML_CombostEM = enroll_CombostEM_LEP/enroll_CombostEM
1243 gen p_enroll_CombostEME_CombostEM = enroll_CombostEM_Eco/enroll_CombostEM
1244 gen p_enroll_CombostEMM_CombostEM = enroll_CombostEM_Male/enroll_CombostEM
1245 gen p_enroll_CombostEMF_CombostEM = enroll_CombostEM_Female/enroll_CombostEM
1246 gen p_enroll_CNostEMB_CombostEM = enroll_CombostEM_Black/enroll_CombostEM
1247 gen p_enroll_CNostEMH_CombostEM = enroll_CombostEM_Hispanic/enroll_CombostEM
1248 gen p_enroll_CNostEMW_CombostEM = enroll_CombostEM_White/enroll_CombostEM
1249 gen p_enroll_CNostEML_CombostEM = enroll_CombostEM_LEP/enroll_CombostEM
1250 gen p_enroll_CNostEME_CombostEM = enroll_CombostEM_Eco/enroll_CombostEM
1251 gen p_enroll_CNostEMM_CombostEM = enroll_CombostEM_Male/enroll_CombostEM
1252 gen p_enroll_CNostEMF_CNostEM = enroll_CombostEM_Female/enroll_CombostEM
1253 gen p_enroll_disting_fhsp = enroll_dist_totalmf/enroll_FHSP_total
1254 gen p_enroll_distingB_fhspB = enroll_dist_Black/enroll_FHSP_Black
1255 gen p_enroll_distingH_fhspH = enroll_dist_Hispanic/enroll_FHSP_Hispanic
1256 gen p_enroll_distingW_fhspW = enroll_dist_White/enroll_FHSP_White
1257 gen p_enroll_distingL_fhspL = enroll_dist_lep/enroll_FHSP_LEP
1258 gen p_enroll_distingE_fhspE = enroll_dist_eco/enroll_FHSP_Eco
1259 gen p_enroll_distingM_fhspM = enroll_dist_male/enroll_FHSP_Male
1260 gen p_enroll_distingF_fhspF = enroll_dist_female/enroll_FHSP_Female
1261 gen p_enroll_distingB_disting = enroll_dist_Black/enroll_dist_totalmf
1262 gen p_enroll_distingH_disting = enroll_dist_Hispanic/enroll_dist_totalmf
1263 gen p_enroll_distingW_disting = enroll_dist_White/enroll_dist_totalmf
1264 gen p_enroll_distingL_disting = enroll_dist_lep/enroll_dist_totalmf
1265 gen p_enroll_distingE_disting = enroll_dist_eco/enroll_dist_totalmf
1266 gen p_enroll_distingM_disting = enroll_dist_male/enroll_dist_totalmf
1267 gen p_enroll_distingF_disting = enroll_dist_female/enroll_dist_totalmf
1268 gen p_enroll_SCS_disting = enroll_FHSP_STEMSTEMCOMBO/enroll_dist_totalmf
1269 gen p_enroll_SCSB_disting = enroll_STEMSTEMCombo_Black/enroll_dist_totalmf
1270 gen p_enroll_SCSH_disting = enroll_STEMSTEMCombo_Hisp/enroll_dist_totalmf
1271 gen p_enroll_SCSW_disting = enroll_STEMSTEMCombo_White/enroll_dist_totalmf
1272 gen p_enroll_SCSL_disting = enroll_STEMSTEMCombo_LEP/enroll_dist_totalmf
1273 gen p_enroll_SCSE_disting = enroll_STEMSTEMCombo_Eco/enroll_dist_totalmf
1274 gen p_enroll_SCSM_disting = enroll_STEMSTEMCombo_Male/enroll_dist_totalmf
1275 gen p_enroll_SCSF_disting = enroll_STEMSTEMCombo_Female/enroll_dist_totalmf
1276 gen p_enroll_SCSB_distingB = enroll_STEMSTEMCombo_Black/enroll_dist_Black
1277 gen p_enroll_SCSH_distingH = enroll_STEMSTEMCombo_Hisp/enroll_dist_Hispanic
1278 gen p_enroll_SCSW_distingW = enroll_STEMSTEMCombo_White/enroll_dist_White
1279 gen p_enroll_SCSL_distingL = enroll_STEMSTEMCombo_LEP/enroll_dist_lep
1280 gen p_enroll_SCSE_distingE = enroll_STEMSTEMCombo_Eco/enroll_dist_eco
1281 gen p_enroll_SCSM_distingM = enroll_STEMSTEMCombo_Male/enroll_dist_male
1282 gen p_enroll_SCSF_distingF = enroll_STEMSTEMCombo_Female/enroll_dist_female
1283 foreach x of varlist p_* {
1284   replace `x' = 1 if `x' > 1
1285 }
1286 save c_enroll_final_long_proportions, replace
1287
1288
1289 use c_enroll_final_long_proportions, replace
1290
1291 eststo clear
1292 eststo state2015: estpost tabstat offer* if year == 2015, statistics (mean) columns(
statistics)
1293 eststo urban2015: estpost tabstat offer* if year == 2015 & urbanicity == 1, statistics (mean
) columns(statistics)
1294 eststo suburban2015: estpost tabstat offer* if year == 2015 & urbanicity == 2, statistics (
mean) columns(statistics)
1295 eststo rural2015: estpost tabstat offer* if year == 2015 & urbanicity == 3, statistics (mean

```

```

) columns(statistics)
1296 eststo state2016: estpost tabstat offer* if year == 2016, statistics (mean) columns(
statistics)
1297 eststo urban2016: estpost tabstat offer* if year == 2016 & urbanicity == 1, statistics (mean
) columns(statistics)
1298 eststo suburban2016: estpost tabstat offer* if year == 2016 & urbanicity == 2, statistics (
mean) columns(statistics)
1299 eststo rural2016: estpost tabstat offer* if year == 2016 & urbanicity == 3, statistics (mean
) columns(statistics)
1300 eststo state2017: estpost tabstat offer* if year == 2017, statistics (mean) columns(
statistics)
1301 eststo urban2017: estpost tabstat offer* if year == 2017 & urbanicity == 1, statistics (mean
) columns(statistics)
1302 eststo suburban2017: estpost tabstat offer* if year == 2017 & urbanicity == 2, statistics (
mean) columns(statistics)
1303 eststo rural2017: estpost tabstat offer* if year == 2017 & urbanicity == 3, statistics (mean
) columns(statistics)
1304
1305 estout * using offersummary.csv, cells("mean") del(,) replace
1306
1307 *****Graduate Data*****
1308 use grad_combol5, replace
1309 drop if charter_status == "Open Enrollment Charter"
1310 drop charter_status
1311 rename endorse_combos endorse
1312 split endorse, p("/")
1313 drop endorse
1314 foreach x of varlist endorse* {
1315 replace `x' = "Arts" if `x' == "ART&HUMANITY"
1316 replace `x' = "Business" if `x' == "BUSN&INDUS"
1317 replace `x' = "None" if `x' == "NO ENDORSEMENT DECLARED"
1318 replace `x' = "Multidisc" if `x' == "MULTIDISCIPL"
1319 replace `x' = "Multidisc" if `x' == "MULT DISCIPL"
1320 replace `x' = "Public" if `x' == "PUBL SVCS"
1321 replace `x' = "Ineligible" if `x' == "INELIGIBLE FOR ENDORSEMENT"
1322 }
1323 gen endorsement = ""
1324 replace endorsement = "STEM" if endorse1 == "STEM" & endorse2 == "" & endorse3 == "" &
endorse4 == ""
1325 replace endorsement = "Arts" if endorse1 == "Arts" & endorse2 == "" & endorse3 == "" &
endorse4 == ""
1326 replace endorsement = "Business" if endorse1 == "Business" & endorse2 == "" & endorse3 == ""
& endorse4 == ""
1327 replace endorsement = "Multidisc" if endorse1 == "Multidisc" & endorse2 == "" & endorse3 ==
"" & endorse4 == ""
1328 replace endorsement = "Public" if endorse1 == "Public" & endorse2 == "" & endorse3 == "" &
endorse4 == ""
1329 replace endorsement = "None" if endorse1 == "None"
1330 replace endorsement = "None" if endorse1 == "Ineligible"
1331 replace endorsement = "ComboSTEM" if endorse1 == "STEM" & endorse2 != ""
1332 replace endorsement = "ComboNoSTEM" if endorse1 != "STEM" & endorse2 != ""
1333 rename fhsp_grad_* *_15
1334 drop endorse1-endorse4
1335 gen id= _n
1336 rename asian number1
1337 rename black_or_african_am number2
1338 rename hispanic_latino number3
1339 rename two_or_more_races number4
1340 rename white number5
1341 rename american_indian_or number6
1342 rename native_hawaiian_oth number7
1343 rename lep number8
1344 rename eco number9
1345 rename male number10
1346 rename female number11
1347 reshape long number, i(id) j(category)
1348 tostring(category), replace
1349 replace category = "Asian" if category == "1"
1350 replace category = "Black" if category == "2"
1351 replace category = "Hispanic" if category == "3"
1352 replace category = "TwoRace" if category == "4"

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1353 replace category = "White" if category == "5"
1354 replace category = "Native" if category == "6"
1355 replace category = "Pacific" if category == "7"
1356 replace category = "LEP" if category == "8"
1357 replace category = "Eco" if category == "9"
1358 replace category = "Male" if category == "10"
1359 replace category = "Female" if category == "11"
1360 gen j = endorse+"_"+category
1361 drop category endorse id
1362 sort district j
1363 replace number = 0 if number == .
1364 replace number = 2.5 if number == -99
1365 sort district j
1366 collapse(sum) number, by (year region distname district j )
1367 reshape wide number, i(district) j(j, s)
1368 rename number* grad*_15
1369 gen grad_STEMComboStem_Black_15 = grad_ComboSTEM_Black_15 + grad_STEM_Black_15
1370 gen grad_STEMComboStem_Hispanic_15 = grad_ComboSTEM_Hispanic_15 + grad_STEM_Hispanic_15
1371 gen grad_STEMComboStem_White_15 = grad_ComboSTEM_White_15 + grad_STEM_White_15
1372 gen grad_STEMComboStem_LEP_15 = grad_ComboSTEM_LEP_15 + grad_STEM_LEP_15
1373 gen grad_STEMComboStem_Eco_15 = grad_ComboSTEM_Eco_15 + grad_STEM_Eco_15
1374 gen grad_STEMComboStem_Male_15 = grad_ComboSTEM_Male_15 + grad_STEM_Male_15
1375 gen grad_STEMComboStem_Female_15 = grad_ComboSTEM_Female_15 + grad_STEM_Female_15
1376 gen grad_STEMComboStem_total_15 = grad_STEMComboStem_Male_15 + grad_STEMComboStem_Female_15
1377 gen grad_FHSP_Black_15 = grad_Arts_Black_15 + grad_Business_Black_15 +
grad_ComboNoSTEM_Black_15 + grad_ComboSTEM_Black_15 + grad_Multidisc_Black_15 +
grad_None_Black_15 + grad_Public_Black_15 + grad_STEM_Black_15
1378 gen grad_FHSP_Hispanic_15 = grad_Arts_Hispanic_15 + grad_Business_Hispanic_15 +
grad_ComboNoSTEM_Hispanic_15 + grad_ComboSTEM_Hispanic_15 + grad_Multidisc_Hispanic_15 +
grad_None_Hispanic_15 + grad_Public_Hispanic_15 + grad_STEM_Hispanic_15
1379 gen grad_FHSP_White_15 = grad_Arts_White_15 + grad_Business_White_15 +
grad_ComboNoSTEM_White_15 + grad_ComboSTEM_White_15 + grad_Multidisc_White_15 +
grad_None_White_15 + grad_Public_White_15 + grad_STEM_White_15
1380 gen grad_FHSP_LEP_15 = grad_Arts_LEP_15 + grad_Business_LEP_15 + grad_ComboNoSTEM_LEP_15 +
grad_ComboSTEM_LEP_15 + grad_Multidisc_LEP_15 + grad_None_LEP_15 + grad_Public_LEP_15 +
grad_STEM_LEP_15
1381 gen grad_FHSP_Eco_15 = grad_Arts_Eco_15 + grad_Business_Eco_15 + grad_ComboNoSTEM_Eco_15 +
grad_ComboSTEM_Eco_15 + grad_Multidisc_Eco_15 + grad_None_Eco_15 + grad_Public_Eco_15 +
grad_STEM_Eco_15
1382 gen grad_FHSP_Male_15 = grad_Arts_Male_15 + grad_Business_Male_15 + grad_ComboNoSTEM_Male_15
+ grad_ComboSTEM_Male_15 + grad_Multidisc_Male_15 + grad_None_Male_15 + grad_Public_Male_15
+ grad_STEM_Male_15
1383 gen grad_FHSP_Female_15 = grad_Arts_Female_15 + grad_Business_Female_15 +
grad_ComboNoSTEM_Female_15 + grad_ComboSTEM_Female_15 + grad_Multidisc_Female_15 +
grad_None_Female_15 + grad_Public_Female_15 + grad_STEM_Female_15
1384 foreach x of varlist grad_* {
1385 replace `x' = 0 if `x' == .
1386 }
1387 save c_grad_combo15, replace
1388
1389
1390 use grad_combo16, replace
1391 drop if charter_status == "Open Enrollment Charter"
1392 drop charter_status
1393 rename endorse_combos endorse
1394 split endorse, p("/")
1395 drop endorse
1396 foreach x of varlist endorse* {
1397 replace `x' = "Arts" if `x' == "ART&HUMANITY"
1398 replace `x' = "Business" if `x' == "BUSN&INDUS"
1399 replace `x' = "None" if `x' == "NO ENDORSEMENT DECLARED"
1400 replace `x' = "Multidisc" if `x' == "MULTIDISCIPL"
1401 replace `x' = "Multidisc" if `x' == "MULT DISCIPL"
1402 replace `x' = "Public" if `x' == "PUBL SVCS"
1403 replace `x' = "Ineligible" if `x' == "INELIGIBLE FOR ENDORSEMENT"
1404 }
1405 gen endorsement = ""
1406 replace endorsement = "STEM" if endorse1 == "STEM" & endorse2 == "" & endorse3 == "" &
endorse4 == "" & endorse5 == ""
1407 replace endorsement = "Arts" if endorse1 == "Arts" & endorse2 == "" & endorse3 == "" &
endorse4 == "" & endorse5 == ""

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1408 replace endorsement = "Business" if endorse1 == "Business" & endorse2 == "" & endorse3 == ""
      & endorse4 == "" & endorse5 == ""
1409 replace endorsement = "Multidisc" if endorse1 == "Multidisc" & endorse2 == "" & endorse3 ==
      "" & endorse4 == "" & endorse5 == ""
1410 replace endorsement = "Public" if endorse1 == "Public" & endorse2 == "" & endorse3 == "" &
      endorse4 == "" & endorse5 == ""
1411 replace endorsement = "None" if endorse1 == "None"
1412 replace endorsement = "None" if endorse1 == "Ineligible"
1413 replace endorsement = "ComboSTEM" if endorse1 == "STEM" & endorse2 != ""
1414 replace endorsement = "ComboNoSTEM" if endorse1 != "STEM" & endorse2 != ""
1415 rename fhsp grad * * 16
1416 drop endorse1-endorse5
1417 gen id= _n
1418 rename asian number1
1419 rename black_or_african_am number2
1420 rename hispanic_latino number3
1421 rename two_or_more_races number4
1422 rename white number5
1423 rename american_indian_or number6
1424 rename native_hawaiian_oth number7
1425 rename lep number8
1426 rename eco number9
1427 rename male number10
1428 rename female number11
1429 reshape long number, i(id) j(category)
1430 tostring(category), replace
1431 replace category = "Asian" if category == "1"
1432 replace category = "Black" if category == "2"
1433 replace category = "Hispanic" if category == "3"
1434 replace category = "TwoRace" if category == "4"
1435 replace category = "White" if category == "5"
1436 replace category = "Native" if category == "6"
1437 replace category = "Pacific" if category == "7"
1438 replace category = "LEP" if category == "8"
1439 replace category = "Eco" if category == "9"
1440 replace category = "Male" if category == "10"
1441 replace category = "Female" if category == "11"
1442 gen j = endorse+"_"+category
1443 drop category endorse id
1444 sort district j
1445 replace number = 0 if number == .
1446 replace number = 2.5 if number == -99
1447 sort district j
1448 collapse(sum) number, by (year region distname district j )
1449 reshape wide number, i(district) j(j, s)
1450 rename number* grad *_16
1451 gen grad_STEMComboStem_Black_16 = grad_ComboSTEM_Black_16 + grad_STEM_Black_16
1452 gen grad_STEMComboStem_Hispanic_16 = grad_ComboSTEM_Hispanic_16 + grad_STEM_Hispanic_16
1453 gen grad_STEMComboStem_White_16 = grad_ComboSTEM_White_16 + grad_STEM_White_16
1454 gen grad_STEMComboStem_LEP_16 = grad_ComboSTEM_LEP_16 + grad_STEM_LEP_16
1455 gen grad_STEMComboStem_Eco_16 = grad_ComboSTEM_Eco_16 + grad_STEM_Eco_16
1456 gen grad_STEMComboStem_Male_16 = grad_ComboSTEM_Male_16 + grad_STEM_Male_16
1457 gen grad_STEMComboStem_Female_16 = grad_ComboSTEM_Female_16 + grad_STEM_Female_16
1458 gen grad_STEMComboStem_total_16 = grad_STEMComboStem_Male_16 + grad_STEMComboStem_Female_16
1459 gen grad_FHSP_Black_16 = grad_Arts_Black_16 + grad_Business_Black_16 +
      grad_ComboNoSTEM_Black_16 + grad_ComboSTEM_Black_16 + grad_Multidisc_Black_16 +
      grad_None_Black_16 + grad_Public_Black_16 + grad_STEM_Black_16
1460 gen grad_FHSP_Hispanic_16 = grad_Arts_Hispanic_16 + grad_Business_Hispanic_16 +
      grad_ComboNoSTEM_Hispanic_16 + grad_ComboSTEM_Hispanic_16 + grad_Multidisc_Hispanic_16 +
      grad_None_Hispanic_16 + grad_Public_Hispanic_16 + grad_STEM_Hispanic_16
1461 gen grad_FHSP_White_16 = grad_Arts_White_16 + grad_Business_White_16 +
      grad_ComboNoSTEM_White_16 + grad_ComboSTEM_White_16 + grad_Multidisc_White_16 +
      grad_None_White_16 + grad_Public_White_16 + grad_STEM_White_16
1462 gen grad_FHSP_LEP_16 = grad_Arts_LEP_16 + grad_Business_LEP_16 + grad_ComboNoSTEM_LEP_16 +
      grad_ComboSTEM_LEP_16 + grad_Multidisc_LEP_16 + grad_None_LEP_16 + grad_Public_LEP_16 +
      grad_STEM_LEP_16
1463 gen grad_FHSP_Eco_16 = grad_Arts_Eco_16 + grad_Business_Eco_16 + grad_ComboNoSTEM_Eco_16 +
      grad_ComboSTEM_Eco_16 + grad_Multidisc_Eco_16 + grad_None_Eco_16 + grad_Public_Eco_16 +
      grad_STEM_Eco_16
1464 gen grad_FHSP_Male_16 = grad_Arts_Male_16 + grad_Business_Male_16 + grad_ComboNoSTEM_Male_16
      + grad_ComboSTEM_Male_16 + grad_Multidisc_Male_16 + grad_None_Male_16 + grad_Public_Male_16

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+ grad_STEM_Male_16
1465 gen grad_FHSP_Female_16 = grad_Arts_Female_16 + grad_Business_Female_16 +
grad_CombNoSTEM_Female_16 + grad_CombSTEM_Female_16 + grad_Multidisc_Female_16 +
grad_None_Female_16 + grad_Public_Female_16 + grad_STEM_Female_16
1466 foreach x of varlist grad_* {
1467 replace `x' = 0 if `x' == .
1468 }
1469 save c_grad_combo16, replace
1470
1471
1472 use grad_distinguished15, replace
1473 drop if charter_status == "Open Enrollment Charter"
1474 drop charter_status
1475 rename fhsp_dist_achieve_*_grads grad_dist*_15
1476 foreach x of varlist grad_* {
1477 replace `x' = 0 if `x' == .
1478 replace `x' = 2.5 if `x' == -99
1479 }
1480 drop year region
1481 save c_grad_distinguished15, replace
1482
1483
1484 use grad_distinguished16, replace
1485 drop if charter_status == "Open Enrollment Charter"
1486 drop charter_status
1487 rename fhsp_dist_achieve_*_grads grad_dist*_16
1488 foreach x of varlist grad_* {
1489 replace `x' = 0 if `x' == .
1490 replace `x' = 2.5 if `x' == -99
1491 }
1492 drop year region
1493 save c_grad_distinguished16, replace
1494
1495
1496 use grad_public_combo15, replace
1497 rename endorsementcombinations endorse
1498 drop year scope agg_level region distname_number_propcase
1499 split endorse, p("/")
1500 drop endorse
1501 foreach x of varlist endorse* {
1502 replace `x' = "Arts" if `x' == "Arts & Humanities"
1503 replace `x' = "Business" if `x' == "Business & Industry"
1504 replace `x' = "None" if `x' == "No Endorsement Declared"
1505 replace `x' = "Multidisc" if `x' == "Multidisciplinary Studies"
1506 replace `x' = "Public" if `x' == "Public Services"
1507 replace `x' = "None" if `x' == "Ineligible For Endorsement"
1508 }
1509 gen endorsement = ""
1510 replace endorsement = "STEM" if endorse1 == "STEM" & endorse2 == "" & endorse3 == "" &
endorse4 == ""
1511 replace endorsement = "Arts" if endorse1 == "Arts" & endorse2 == "" & endorse3 == "" &
endorse4 == ""
1512 replace endorsement = "Business" if endorse1 == "Business" & endorse2 == "" & endorse3 == ""
& endorse4 == ""
1513 replace endorsement = "Multidisc" if endorse1 == "Multidisc" & endorse2 == "" & endorse3 ==
"" & endorse4 == ""
1514 replace endorsement = "Public" if endorse1 == "Public" & endorse2 == "" & endorse3 == "" &
endorse4 == ""
1515 replace endorsement = "None" if endorse1 == "None"
1516 replace endorsement = "ComboSTEM" if endorse1 == "STEM" & endorse2 != ""
1517 replace endorsement = "ComboNoSTEM" if endorse1 != "STEM" & endorse2 != ""
1518 rename fhspstudentscount grad
1519 drop endorse1-endorse4
1520 foreach x of varlist grad {
1521 replace `x' = 0 if `x' == .
1522 replace `x' = 2.5 if `x' == -9999999
1523 }
1524 collapse(sum) grad, by (district endorse)
1525 reshape wide grad, i(district) j(endorse, s)
1526 rename grad* grad*_15
1527 foreach x of varlist grad_* {

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1528 replace `x' = 0 if `x' == .
1529 }
1530 gen grad_fhsp_total_15 = grad_Arts_15 + grad_Business_15 + grad_ComboNoSTEM_15 +
grad_ComboSTEM_15 + grad_Multidisc_15 + grad_None_15 + grad_Public_15 + grad_STEM_15
1531 save c_grad_public_combol5, replace
1532
1533
1534 use grad_public_combol6, replace
1535 drop if charterstatus == "Open Enrollment Charter"
1536 drop charterstatus
1537 rename endorsementcombinations endorse
1538 drop year regionnumber regionname districtname
1539 split endorse, p("/")
1540 drop endorse
1541 foreach x of varlist endorse* {
1542 replace `x' = "Arts" if `x' == "Arts & Humanities"
1543 replace `x' = "Business" if `x' == "Business & Industry"
1544 replace `x' = "None" if `x' == "No Endorsement Declared"
1545 replace `x' = "Multidisc" if `x' == "Multidisciplinary Studies"
1546 replace `x' = "Public" if `x' == "Public Services"
1547 replace `x' = "None" if `x' == "Ineligible For Endorsement"
1548 }
1549 gen endorsement = ""
1550 replace endorsement = "STEM" if endorse1 == "STEM" & endorse2 == "" & endorse3 == "" &
endorse4 == "" & endorse5 == ""
1551 replace endorsement = "Arts" if endorse1 == "Arts" & endorse2 == "" & endorse3 == "" &
endorse4 == "" & endorse5 == ""
1552 replace endorsement = "Business" if endorse1 == "Business" & endorse2 == "" & endorse3 == ""
& endorse4 == "" & endorse5 == ""
1553 replace endorsement = "Multidisc" if endorse1 == "Multidisc" & endorse2 == "" & endorse3 ==
"" & endorse4 == "" & endorse5 == ""
1554 replace endorsement = "Public" if endorse1 == "Public" & endorse2 == "" & endorse3 == "" &
endorse4 == "" & endorse5 == ""
1555 replace endorsement = "None" if endorse1 == "None"
1556 replace endorsement = "ComboSTEM" if endorse1 == "STEM" & endorse2 != ""
1557 replace endorsement = "ComboNoSTEM" if endorse1 != "STEM" & endorse2 != ""
1558 rename fhspstudentscount grad
1559 drop endorse1-endorse5
1560 foreach x of varlist grad {
1561 replace `x' = 0 if `x' == .
1562 replace `x' = 2.5 if `x' == -9999999
1563 }
1564 collapse(sum) grad, by (district endorse)
1565 drop if endorsement == ""
1566 reshape wide grad, i(district) j(endorse, s)
1567 rename grad* grad*_16
1568 foreach x of varlist grad_* {
1569 replace `x' = 0 if `x' == .
1570 }
1571 gen grad_fhsp_total_16 = grad_Arts_16 + grad_Business_16 + grad_ComboNoSTEM_16 +
grad_ComboSTEM_16 + grad_Multidisc_16 + grad_None_16 + grad_Public_16 + grad_STEM_16
1572 save c_grad_public_combol6, replace
1573
1574
1575 use grad_public_distinguished15, replace
1576 drop year scope_agg_level region
1577 drop distname_number_propcase
1578 rename fhspgraduatesdistinguishedlevelo grad_dist_15
1579 foreach x of varlist ethnicity {
1580 replace `x' = "Black" if `x' == "Black or African American"
1581 replace `x' = "Hispanic" if `x' == "Hispanic/Latino"
1582 replace `x' = "AmInd" if `x' == "American Indian or Alaska Nat"
1583 replace `x' = "Hawaiian" if `x' == "Native Hawaiian/Other Pacific"
1584 replace `x' = "TwoRaces" if `x' == "Two or more races"
1585 }
1586 drop if ethnicity == "AmInd"
1587 drop if ethnicity == "TwoRaces"
1588 drop if ethnicity == "Asian"
1589 drop if ethnicity == "Hawaiian"
1590 drop if ethnicity == ""
1591 reshape wide grad_dist_15, i(district) j(ethnicity, s)

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1592 rename grad_dist_15* grad_dist*_15
1593 foreach x of varlist grad_* {
1594   replace `x' = 0 if `x' == .
1595   replace `x' = 2.5 if `x' == -9999999
1596 }
1597 save c_grad_public_distinguished15, replace
1598
1599
1600 use grad_public_distinguished16, replace
1601 drop if charterstatus == "Open Enrollment Charter"
1602 drop charterstatus year regionnumber districtname
1603 rename fhsppgraduatesdistinguishedlevel0 grad_dist_16
1604 foreach x of varlist ethnicity {
1605   replace `x' = "Black" if `x' == "Black or African American"
1606   replace `x' = "Hispanic" if `x' == "Hispanic/Latino"
1607   replace `x' = "AmInd" if `x' == "American Indian or Alaska Nat"
1608   replace `x' = "Hawaiian" if `x' == "Native Hawaiian/Other Pacific"
1609   replace `x' = "TwoRaces" if `x' == "Two or more races"
1610 }
1611 drop if ethnicity == "AmInd"
1612 drop if ethnicity == "TwoRaces"
1613 drop if ethnicity == "Asian"
1614 drop if ethnicity == "Hawaiian"
1615 drop if ethnicity == ""
1616 reshape wide grad_dist_16, i(district) j(ethnicity, s)
1617 rename grad_dist_16* grad_dist*_16
1618 foreach x of varlist grad_* {
1619   replace `x' = 0 if `x' == .
1620   replace `x' = 2.5 if `x' == -9999999
1621 }
1622 save c_grad_public_distinguished16, replace
1623
1624
1625 use grad_tapr_regular_15, replace
1626 foreach x of varlist grad_* {
1627   replace `x' = 0 if `x' == .
1628   replace `x' = 2.5 if `x' == -99
1629 }
1630 save c_grad_tapr_regular_district15, replace
1631
1632
1633 use grad_tapr_regular_16, replace
1634 foreach x of varlist grad_* {
1635   replace `x' = 0 if `x' == .
1636   replace `x' = 2.5 if `x' == -99
1637 }
1638 save c_grad_tapr_regular_district16, replace
1639
1640
1641 use c_districttype, replace
1642 merge 1:1 district using c_grad_tapr_regular_district15
1643 drop if _merge == 2
1644 drop _merge
1645 merge 1:1 district using c_grad_tapr_regular_district16
1646 drop if _merge == 2
1647 drop _merge
1648 merge 1:1 district using c_grad_combo15
1649 drop _merge year
1650 merge 1:1 district using c_grad_public_combo15
1651 drop if _merge == 2
1652 drop _merge
1653 merge 1:1 district using c_grad_combo16
1654 drop _merge year
1655 merge 1:1 district using c_grad_public_combo16
1656 drop _merge
1657 merge 1:1 district using c_grad_distinguished15
1658 drop _merge
1659 merge 1:1 district using c_grad_public_distinguished15
1660 drop if _merge == 2
1661 drop _merge
1662 merge 1:1 district using c_grad_distinguished16

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1663 drop _merge
1664 merge 1:1 district using c_grad_public_distinguished16
1665 drop _merge
1666 drop if grad_total_15 == 0 & grad_total_16 == 0
1667 foreach x of varlist grad* {
1668 replace `x' = 0 if `x' == .
1669 }
1670 save c_grad_final_wide, replace
1671
1672
1673 use c_districttype, replace
1674 merge 1:1 district using c_grad_tapr_regular_district15
1675 drop if _merge == 2
1676 drop _merge
1677 merge 1:1 district using c_grad_combo15
1678 drop _merge year
1679 merge 1:1 district using c_grad_public_combo15
1680 drop if _merge == 2
1681 drop _merge
1682 merge 1:1 district using c_grad_distinguished15
1683 drop _merge
1684 merge 1:1 district using c_grad_public_distinguished15
1685 drop if _merge == 2
1686 drop _merge
1687 gen year = 2015
1688 order year, a(urbanicity)
1689 rename *_15 *
1690 save c_grad_long15, replace
1691
1692 use c_districttype, replace
1693 merge 1:1 district using c_grad_tapr_regular_district16
1694 drop if _merge == 2
1695 drop _merge
1696 merge 1:1 district using c_grad_combo16
1697 drop _merge year
1698 merge 1:1 district using c_grad_public_combo16
1699 drop _merge
1700 merge 1:1 district using c_grad_distinguished16
1701 drop _merge
1702 merge 1:1 district using c_grad_public_distinguished16
1703 drop _merge
1704 gen year = 2016
1705 order year, a(urbanicity)
1706 rename *_16 *
1707 save c_grad_long16, replace
1708
1709 use c_grad_long15, replace
1710 append using c_grad_long16
1711 drop if grad_total == 0
1712 foreach x of varlist grad* {
1713 replace `x' = 0 if `x' == .
1714 }
1715 save c_grad_final_long, replace
1716
1717
1718 use c_grad_final_long, replace
1719 gen p_grad_fhsp_total = grad_fhsp_total/grad_total
1720 gen p_grad_fhspB_totalB = grad_FHSP_Black/grad_black
1721 gen p_grad_fhspH_totalH = grad_FHSP_Hispanic/grad_hispanic
1722 gen p_grad_fhspW_totalW = grad_FHSP_White/grad_white
1723 gen p_grad_fhspL_totalL = grad_FHSP_LEP/grad_lep
1724 gen p_grad_fhspE_totalE = grad_FHSP_Eco/grad_eco
1725 gen p_grad_Arts_fhsp = grad_Arts/grad_fhsp_total
1726 gen p_grad_ArtsB_fhspB = grad_Arts_Black/grad_FHSP_Black
1727 gen p_grad_ArtsH_fhspH = grad_Arts_Hispanic/grad_FHSP_Hispanic
1728 gen p_grad_ArtsW_fhspW = grad_Arts_White/grad_FHSP_White
1729 gen p_grad_ArtsL_fhspL = grad_Arts_LEP/grad_FHSP_LEP
1730 gen p_grad_ArtsE_fhspE = grad_Arts_Eco/grad_FHSP_Eco
1731 gen p_grad_ArtsM_fhspM = grad_Arts_Male/grad_FHSP_Male
1732 gen p_grad_ArtsF_fhspF = grad_Arts_Female/grad_FHSP_Female
1733 gen p_grad_Business_fhsp = grad_Business/grad_fhsp_total

```

1734 gen p_grad_BusinessB_fhspB = grad_Business_Black/grad_FHSP_Black
1735 gen p_grad_BusinessH_fhspH = grad_Business_Hispanic/grad_FHSP_Hispanic
1736 gen p_grad_BusinessW_fhspW = grad_Business_White/grad_FHSP_White
1737 gen p_grad_BusinessL_fhspL = grad_Business_LEP/grad_FHSP_LEP
1738 gen p_grad_BusinessE_fhspE = grad_Business_Eco/grad_FHSP_Eco
1739 gen p_grad_BusinessM_fhspM = grad_Business_Male/grad_FHSP_Male
1740 gen p_grad_BusinessF_fhspF = grad_Business_Female/grad_FHSP_Female
1741 gen p_grad_Public_fhsp = grad_Public/grad_fhsp_total
1742 gen p_grad_PublicB_fhspB = grad_Public_Black/grad_FHSP_Black
1743 gen p_grad_PublicH_fhspH = grad_Public_Hispanic/grad_FHSP_Hispanic
1744 gen p_grad_PublicW_fhspW = grad_Public_White/grad_FHSP_White
1745 gen p_grad_PublicL_fhspL = grad_Public_LEP/grad_FHSP_LEP
1746 gen p_grad_PublicE_fhspE = grad_Public_Eco/grad_FHSP_Eco
1747 gen p_grad_PublicM_fhspM = grad_Public_Male/grad_FHSP_Male
1748 gen p_grad_PublicF_fhspF = grad_Public_Female/grad_FHSP_Female
1749 gen p_grad_Multidisc_fhsp = grad_Multidisc/grad_fhsp_total
1750 gen p_grad_MultidiscB_fhspB = grad_Multidisc_Black/grad_FHSP_Black
1751 gen p_grad_MultidiscH_fhspH = grad_Multidisc_Hispanic/grad_FHSP_Hispanic
1752 gen p_grad_MultidiscW_fhspW = grad_Multidisc_White/grad_FHSP_White
1753 gen p_grad_MultidiscL_fhspL = grad_Multidisc_LEP/grad_FHSP_LEP
1754 gen p_grad_MultidiscE_fhspE = grad_Multidisc_Eco/grad_FHSP_Eco
1755 gen p_grad_MultidiscM_fhspM = grad_Multidisc_Male/grad_FHSP_Male
1756 gen p_grad_MultidiscF_fhspF = grad_Multidisc_Female/grad_FHSP_Female
1757 gen p_grad_STEM_fhsp = grad_STEM/grad_fhsp_total
1758 gen p_grad_STEMB_fhspB = grad_STEM_Black/grad_FHSP_Black
1759 gen p_grad_STEMH_fhspH = grad_STEM_Hispanic/grad_FHSP_Hispanic
1760 gen p_grad_STEMW_fhspW = grad_STEM_White/grad_FHSP_White
1761 gen p_grad_STEML_fhspL = grad_STEM_LEP/grad_FHSP_LEP
1762 gen p_grad_STEME_fhspE = grad_STEM_Eco/grad_FHSP_Eco
1763 gen p_grad_STEMM_fhspM = grad_STEM_Male/grad_FHSP_Male
1764 gen p_grad_STEMF_fhspF = grad_STEM_Female/grad_FHSP_Female
1765 gen p_grad_ComboSTEM_fhsp = grad_ComboSTEM/grad_fhsp_total
1766 gen p_grad_ComboSTEMB_fhspB = grad_ComboSTEM_Black/grad_FHSP_Black
1767 gen p_grad_ComboSTEMH_fhspH = grad_ComboSTEM_Hispanic/grad_FHSP_Hispanic
1768 gen p_grad_ComboSTEMW_fhspW = grad_ComboSTEM_White/grad_FHSP_White
1769 gen p_grad_ComboSTEML_fhspL = grad_ComboSTEM_LEP/grad_FHSP_LEP
1770 gen p_grad_ComboSTEME_fhspE = grad_ComboSTEM_Eco/grad_FHSP_Eco
1771 gen p_grad_ComboSTEMM_fhspM = grad_ComboSTEM_Male/grad_FHSP_Male
1772 gen p_grad_ComboSTEMF_fhspF = grad_ComboSTEM_Female/grad_FHSP_Female
1773 gen p_grad_ComboNoSTEM_fhsp = grad_ComboNoSTEM/grad_fhsp_total
1774 gen p_grad_ComboNoSTEMB_fhspB = grad_ComboNoSTEM_Black/grad_FHSP_Black
1775 gen p_grad_ComboNoSTEMH_fhspH = grad_ComboNoSTEM_Hispanic/grad_FHSP_Hispanic
1776 gen p_grad_ComboNoSTEMW_fhspW = grad_ComboNoSTEM_White/grad_FHSP_White
1777 gen p_grad_ComboNoSTEML_fhspL = grad_ComboNoSTEM_LEP/grad_FHSP_LEP
1778 gen p_grad_ComboNoSTEME_fhspE = grad_ComboNoSTEM_Eco/grad_FHSP_Eco
1779 gen p_grad_ComboNoSTEMM_fhspM = grad_ComboNoSTEM_Male/grad_FHSP_Male
1780 gen p_grad_ComboNoSTEMF_fhspF = grad_ComboNoSTEM_Female/grad_FHSP_Female
1781 gen p_grad_ArtsB_Arts = grad_Arts_Black/grad_Arts
1782 gen p_grad_ArtsH_Arts = grad_Arts_Hispanic/grad_Arts
1783 gen p_grad_ArtsW_Arts = grad_Arts_White/grad_Arts
1784 gen p_grad_ArtsL_Arts = grad_Arts_LEP/grad_Arts
1785 gen p_grad_ArtsE_Arts = grad_Arts_Eco/grad_Arts
1786 gen p_grad_ArtsM_Arts = grad_Arts_Male/grad_Arts
1787 gen p_grad_ArtsF_Arts = grad_Arts_Female/grad_Arts
1788 gen p_grad_BusinessB_Business = grad_Business_Black/grad_Business
1789 gen p_grad_BusinessH_Business = grad_Business_Hispanic/grad_Business
1790 gen p_grad_BusinessW_Business = grad_Business_White/grad_Business
1791 gen p_grad_BusinessL_Business = grad_Business_LEP/grad_Business
1792 gen p_grad_BusinessE_Business = grad_Business_Eco/grad_Business
1793 gen p_grad_BusinessM_Business = grad_Business_Male/grad_Business
1794 gen p_grad_BusinessF_Business = grad_Business_Female/grad_Business
1795 gen p_grad_PublicB_Public = grad_Public_Black/grad_Public
1796 gen p_grad_PublicH_Public = grad_Public_Hispanic/grad_Public
1797 gen p_grad_PublicW_Public = grad_Public_White/grad_Public
1798 gen p_grad_PublicL_Public = grad_Public_LEP/grad_Public
1799 gen p_grad_PublicE_Public = grad_Public_Eco/grad_Public
1800 gen p_grad_PublicM_Public = grad_Public_Male/grad_Public
1801 gen p_grad_PublicF_Public = grad_Public_Female/grad_Public
1802 gen p_grad_MultidiscB_Multidisc = grad_Multidisc_Black/grad_Multidisc
1803 gen p_grad_MultidiscH_Multidisc = grad_Multidisc_Hispanic/grad_Multidisc
1804 gen p_grad_MultidiscW_Multidisc = grad_Multidisc_White/grad_Multidisc

```

1805 gen p_grad_MultidiscL_Multidisc = grad_Multidisc_LEP/grad_Multidisc
1806 gen p_grad_MultidiscE_Multidisc = grad_Multidisc_Eco/grad_Multidisc
1807 gen p_grad_MultidiscM_Multidisc = grad_Multidisc_Male/grad_Multidisc
1808 gen p_grad_MultidiscF_Multidisc = grad_Multidisc_Female/grad_Multidisc
1809 gen p_grad_STEMB_STEM = grad_STEM_Black/grad_STEM
1810 gen p_grad_STEMH_STEM = grad_STEM_Hispanic/grad_STEM
1811 gen p_grad_STEMW_STEM = grad_STEM_White/grad_STEM
1812 gen p_grad_STEML_STEM = grad_STEM_LEP/grad_STEM
1813 gen p_grad_STEME_STEM = grad_STEM_Eco/grad_STEM
1814 gen p_grad_STEMM_STEM = grad_STEM_Male/grad_STEM
1815 gen p_grad_STEMF_STEM = grad_STEM_Female/grad_STEM
1816 gen p_grad_ComboSTEMB_ComboSTEM = grad_ComboSTEM_Black/grad_ComboSTEM
1817 gen p_grad_ComboSTEMH_ComboSTEM = grad_ComboSTEM_Hispanic/grad_ComboSTEM
1818 gen p_grad_ComboSTEMW_ComboSTEM = grad_ComboSTEM_White/grad_ComboSTEM
1819 gen p_grad_ComboSTEML_ComboSTEM = grad_ComboSTEM_LEP/grad_ComboSTEM
1820 gen p_grad_ComboSTEME_ComboSTEM = grad_ComboSTEM_Eco/grad_ComboSTEM
1821 gen p_grad_ComboSTEMM_ComboSTEM = grad_ComboSTEM_Male/grad_ComboSTEM
1822 gen p_grad_ComboSTEMF_ComboSTEM = grad_ComboSTEM_Female/grad_ComboSTEM
1823 gen p_grad_ComboNoSTEMB_ComboNoSTEM = grad_ComboNoSTEM_Black/grad_ComboNoSTEM
1824 gen p_grad_ComboNoSTEMH_ComboNoSTEM = grad_ComboNoSTEM_Hispanic/grad_ComboNoSTEM
1825 gen p_grad_ComboNoSTEMW_ComboNoSTEM = grad_ComboNoSTEM_White/grad_ComboNoSTEM
1826 gen p_grad_ComboNoSTEML_ComboNoSTEM = grad_ComboNoSTEM_LEP/grad_ComboNoSTEM
1827 gen p_grad_ComboNoSTEME_ComboNoSTEM = grad_ComboNoSTEM_Eco/grad_ComboNoSTEM
1828 gen p_grad_ComboNoSTEMM_ComboNoSTEM = grad_ComboNoSTEM_Male/grad_ComboNoSTEM
1829 gen p_grad_ComboNoSTEMF_ComboNoSTEM = grad_ComboNoSTEM_Female/grad_ComboNoSTEM
1830 gen p_grad_disting_fhsp = grad_disting/grad_fhsp_total
1831 gen p_grad_distingB_fhspB = grad_dist_Black/grad_FHSP_Black
1832 gen p_grad_distingH_fhspH = grad_dist_Hispanic/grad_FHSP_Hispanic
1833 gen p_grad_distingW_fhspW = grad_dist_White/grad_FHSP_White
1834 gen p_grad_distingL_fhspL = grad_dist_lep/grad_FHSP_LEP
1835 gen p_grad_distingE_fhspE = grad_dist_eco/grad_FHSP_Eco
1836 gen p_grad_distingM_fhspM = grad_dist_male/grad_FHSP_Male
1837 gen p_grad_distingF_fhspF = grad_dist_female/grad_FHSP_Female
1838 gen p_grad_distingB_disting = grad_dist_Black/grad_disting
1839 gen p_grad_distingH_disting = grad_dist_Hispanic/grad_disting
1840 gen p_grad_distingW_disting = grad_dist_White/grad_disting
1841 gen p_grad_distingL_disting = grad_dist_lep/grad_disting
1842 gen p_grad_distingE_disting = grad_dist_eco/grad_disting
1843 gen p_grad_distingM_disting = grad_dist_male/grad_disting
1844 gen p_grad_distingF_disting = grad_dist_female/grad_disting
1845 gen p_grad_SCS_disting = grad_STEMComboStem_total/grad_disting
1846 gen p_grad_SCSB_disting = grad_STEMComboStem_Black/grad_disting
1847 gen p_grad_SCSH_disting = grad_STEMComboStem_Hispanic/grad_disting
1848 gen p_grad_SCSW_disting = grad_STEMComboStem_White/grad_disting
1849 gen p_grad_SCSL_disting = grad_STEMComboStem_LEP/grad_disting
1850 gen p_grad_SCSE_disting = grad_STEMComboStem_Eco/grad_disting
1851 gen p_grad_SCSM_disting = grad_STEMComboStem_Male/grad_disting
1852 gen p_grad_SCSF_disting = grad_STEMComboStem_Female/grad_disting
1853 gen p_grad_SCSB_distingB = grad_STEMComboStem_Black/grad_dist_Black
1854 gen p_grad_SCSH_distingH = grad_STEMComboStem_Hispanic/grad_dist_Hispanic
1855 gen p_grad_SCSW_distingW = grad_STEMComboStem_White/grad_dist_White
1856 gen p_grad_SCSL_distingL = grad_STEMComboStem_LEP/grad_dist_lep
1857 gen p_grad_SCSE_distingE = grad_STEMComboStem_Eco/grad_dist_eco
1858 gen p_grad_SCSM_distingM = grad_STEMComboStem_Male/grad_dist_male
1859 gen p_grad_SCSF_distingF = grad_STEMComboStem_Female/grad_dist_female
1860 foreach x of varlist p_* {
1861   replace `x' = 1 if `x' > 1
1862 }
1863 save c_grad_final_long_proportions, replace
1864
1865
1866

```

APPENDIX D: Stata Code Files for Data Analysis

```

1  cd "C:\Users\kla86\Desktop"
2
3  /*****
4  This code calculates, stores, and exports the summary statistics for further formatting.
5  *****/
6  use c_grad_final_long_proportions, replace
7
8  eststo clear
9  eststo state2015: estpost tabstat p_* if year == 2015, statistics (mean sd p50 min max count
10 ) columns(statistics)
11 eststo urban2015: estpost tabstat p_* if year == 2015 & urbanicity == 1, statistics (mean sd
12 p50 min max count) columns(statistics)
13 eststo suburban2015: estpost tabstat p_* if year == 2015 & urbanicity == 2, statistics (mean
14 sd p50 min max count) columns(statistics)
15 eststo rural2015: estpost tabstat p_* if year == 2015 & urbanicity == 3, statistics (mean sd
16 p50 min max count) columns(statistics)
17
18 eststo state2016: estpost tabstat p_* if year == 2016, statistics (mean sd p50 min max count
19 ) columns(statistics)
20 eststo urban2016: estpost tabstat p_* if year == 2016 & urbanicity == 1, statistics (mean sd
21 p50 min max count) columns(statistics)
22 eststo suburban2016: estpost tabstat p_* if year == 2016 & urbanicity == 2, statistics (mean
23 sd p50 min max count) columns(statistics)
24 eststo rural2016: estpost tabstat p_* if year == 2016 & urbanicity == 3, statistics (mean sd
25 p50 min max count) columns(statistics)
26
27 estout * using gradsummary.csv, cells("mean sd p50 min max count") del(,) replace
28
29 use c_enroll_final_long_proportions, replace
30
31 eststo clear
32 eststo state2015: estpost tabstat p_* offer* if year == 2015, statistics (mean sd p50 min
33 max count) columns(statistics)
34 eststo urban2015: estpost tabstat p_* offer* if year == 2015 & urbanicity == 1, statistics (
35 mean sd p50 min max count) columns(statistics)
36 eststo suburban2015: estpost tabstat p_* offer* if year == 2015 & urbanicity == 2,
37 statistics (mean sd p50 min max count) columns(statistics)
38 eststo rural2015: estpost tabstat p_* offer* if year == 2015 & urbanicity == 3, statistics (
39 mean sd p50 min max count) columns(statistics)
40 eststo state2016: estpost tabstat p_* offer* if year == 2016, statistics (mean sd p50 min
41 max count) columns(statistics)
42 eststo urban2016: estpost tabstat p_* offer* if year == 2016 & urbanicity == 1, statistics (
43 mean sd p50 min max count) columns(statistics)
44 eststo suburban2016: estpost tabstat p_* offer* if year == 2016 & urbanicity == 2,
45 statistics (mean sd p50 min max count) columns(statistics)
46 eststo rural2016: estpost tabstat p_* offer* if year == 2016 & urbanicity == 3, statistics (
47 mean sd p50 min max count) columns(statistics)
48 eststo state2017: estpost tabstat p_* offer* if year == 2017, statistics (mean sd p50 min
49 max count) columns(statistics)
50 eststo urban2017: estpost tabstat p_* offer* if year == 2017 & urbanicity == 1, statistics (
51 mean sd p50 min max count) columns(statistics)
52 eststo suburban2017: estpost tabstat p_* offer* if year == 2017 & urbanicity == 2,
53 statistics (mean sd p50 min max count) columns(statistics)
54 eststo rural2017: estpost tabstat p_* offer* if year == 2017 & urbanicity == 3, statistics (
55 mean sd p50 min max count) columns(statistics)
56
57 estout * using enrollsummary.csv, cells("mean sd p50 min max count") del(,) replace
58
59 **EVEN MORE CLEANING!!**
60
61 use c_enroll_final_long_proportions, replace
62 gen per = enroll_dist_totalmf / enroll_FHSP_total
63 bysort year: sum per, d
64 /*Given that some variables are not integers because of the 2.5, we need to rounddown these
65 totals*/
66 replace enroll_FHSP_total = int(enroll_FHSP_total)
67 replace enroll_HStotal_district = int(enroll_HStotal_district)
68 /*After rounding, etc., some districts show more students in FHSP than in the district.
69 Change these
70 values to 100%*/
71 replace enroll_FHSP_total = enroll_HStotal_district if enroll_HStotal_district <

```

```

50 enroll_FHSP_total
51 replace enroll_dist_totalmf = enroll_FHSP_total if enroll_FHSP_total < enroll_dist_totalmf
52 /*Create proportions of minority, ecodis and LEP students. Some districts show proportions
53 less than 0%
54 or greater than 100%. Adjust these variables so no fall outside of [0-1] range.*/
54 gen perc_minority = (enroll_HStotal_Black + enroll_HStotal_Hispanic) /
55 enroll_HStotal_district
56 replace perc_minority = 1 if perc_minority > 1
57 gen perc_black = (enroll_HStotal_Black) / enroll_HStotal_district
58 replace perc_black = 1 if perc_black > 1
59 gen perc_white = (enroll_HStotal_White) / enroll_HStotal_district
60 replace perc_white = 1 if perc_white > 1
61 gen perc_hispanic = (enroll_HStotal_Hispanic) / enroll_HStotal_district
62 replace perc_hispanic = 1 if perc_hispanic > 1
63 gen perc_ecodis = enroll_HSest_ecodis / enroll_HStotal_district
64 replace perc_ecodis = 0 if perc_ecodis < 0
65 replace perc_ecodis = 1 if perc_ecodis > 1
66 gen perc_lep = enroll_total_lep / enroll_HStotal_district
67 replace perc_lep = 1 if perc_lep > 1
68 gen perc_male = enroll_HStotal_male / enroll_HStotal_district
69 replace perc_male = 1 if perc_male > 1
70 foreach x of varlist perc_* {
71 egen m`x' = mean(`x')
72 gen c`x' = `x' - m`x'
73 }
74 /*Testing for multicollinearity*/
75 pwcorr perc_black perc_hispanic perc_ecodis perc_lep, sig
76 /*Also conduct EFA only between minority and ecodis given analysis suggests LEP might be
77 separate*/
78 factor perc_minority perc_ecodis
79 rot
80 predict disadv, bartlett
81
82 gen wave = .
83 replace wave = 0 if year == 2015
84 replace wave = 1 if year == 2016
85 replace wave = 2 if year == 2017
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109 melogit, or
110 estat ic //AIC = 42251.54 ; BIC = 42305.38
111
112 /* 5 */
113 melogit enroll_FHSP_total c.wave##(i.urbanicity c.cperc_black) || district: wave, binomial(
enroll_HStotal_district) vce(robust) cov(uns) dnumerical
114 melogit, or
115 estat ic //AIC = 42234.08 ; BIC = 42299.89
116
117 /* 6 */
118 melogit enroll_FHSP_total c.wave##i.urbanicity c.cperc_black || district: wave, binomial(
enroll_HStotal_district) vce(robust) cov(uns) dnumerical
119 melogit, or
120 estat ic //AIC = 42226.17; BIC = 42285.99
121
122 /* 7 */
123 melogit enroll_FHSP_total c.wave##(i.urbanicity c.cperc_black c.cperc_hispanic) || district:
wave, binomial(enroll_HStotal_district) vce(robust) cov(uns) dnumerical
124 melogit, or
125 estat ic //AIC = 42229.16 ; BIC = 42306.93 -- higher, and hispanic n.s.
126
127 /* 8 */
128 melogit enroll_FHSP_total c.wave##i.urbanicity c.cperc_black c.cperc_hispanic || district:
wave, binomial(enroll_HStotal_district) vce(robust) cov(uns) dnumerical
129 melogit, or
130 estat ic //AIC = 42222.16 ; BIC = 42306.93 -- AIC lower, BIC higher, % black and % hisp n.s.
131
132 /* 9 */
133 melogit enroll_FHSP_total c.wave##(i.urbanicity c.cperc_hispanic) c.cperc_black || district:
wave, binomial(enroll_HStotal_district) vce(robust) cov(uns) dnumerical
134 melogit, or
135 estat ic //AIC = 42231 ; BIC = 42303, higher, and hisp and black n.s.
136
137 /* 10 */
138 melogit enroll_FHSP_total c.wave##(i.urbanicity c.cperc_black) c.cperc_hispanic || district:
wave, binomial(enroll_HStotal_district) vce(robust) cov(uns) dnumerical
139 melogit, or
140 estat ic //AIC = 42223; BIC = 42295, AIC lower, BIC higher, hisp close to sig
141
142 /* 11 */
143 melogit enroll_FHSP_total c.wave##(i.urbanicity c.cperc_black c.cperc_ecodis) || district:
wave, binomial(enroll_HStotal_district) vce(robust) cov(uns) dnumerical
144 melogit, or
145 estat ic //AIC = 42239.98 ; BIC = 42317.75 -- AIC and BIC higher and ecodis n.s.
146
147 /* 12 */
148 melogit enroll_FHSP_total c.wave##i.urbanicity c.cperc_black c.cperc_ecodis || district:
wave, binomial(enroll_HStotal_district) vce(robust) cov(uns) dnumerical
149 melogit, or
150 estat ic //AIC = 42234 ; BIC = 42300 both higher, black ecodis n.s
151
152 /* 13 */
153 melogit enroll_FHSP_total c.wave##i.urbanicity c.cperc_black c.cperc_ecodis c.cperc_hispanic
|| district: wave, binomial(enroll_HStotal_district) vce(robust) cov(uns) dnumerical
154 melogit, or
155 estat ic //AIC = 42227 ; BIC = 42299 black, ecodis, hisp n.s.
156
157 /* 14 */
158 melogit enroll_FHSP_total c.wave##(i.urbanicity c.cperc_ecodis) c.cperc_black || district:
wave, binomial(enroll_HStotal_district) vce(robust) cov(uns) dnumerical
159 melogit, or
160 estat ic //AIC = 42224; BIC = 42296, % black pvalue .002
161
162 /* 15 */
163 melogit enroll_FHSP_total c.wave##(i.urbanicity c.cperc_ecodis) c.cperc_black c.
cperc_hispanic || district: wave, binomial(enroll_HStotal_district) vce(robust) cov(uns)
dnumerical
164 melogit, or
165 estat ic //AIC = 42225; BIC = 42303 both higher
166
167 /* 16 */

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168 melogit enroll_FHSP_total c.wave##(i.urbanicity c.cperc_black) c.cperc_ecodis || district:
wave, binomial(enroll_HStotal_district) vce(robust) cov(uns) dnumerical
169 melogit, or
170 estat ic //AIC = 42234; BIC = 42306 both higher
171
172 /* 17 */
173 melogit enroll_FHSP_total c.wave##i.urbanicity c.cperc_ecodis || district: wave, binomial(
enroll_HStotal_district) vce(robust) cov(uns) dnumerical
174 melogit, or
175 estat ic //AIC = 42252; BIC = 42312 both higher
176
177 /* 18 */
178 melogit enroll_FHSP_total c.wave##(i.urbanicity c.cperc_ecodis) || district: wave, binomial(
enroll_HStotal_district) vce(robust) cov(uns) dnumerical
179 melogit, or
180 estat ic //AIC = 42251; BIC = 42316 both higher
181
182 /* 19 */
183 melogit enroll_FHSP_total c.wave##(i.urbanicity c.cperc_hispanic) || district: wave,
binomial(enroll_HStotal_district) vce(robust) cov(uns) dnumerical
184 melogit, or
185 estat ic //AIC = 42240; BIC = 42306 both higher
186
187 /* 20 */
188 melogit enroll_FHSP_total c.wave##i.urbanicity c.cperc_hispanic || district: wave, binomial(
enroll_HStotal_district) vce(robust) cov(uns) dnumerical
189 melogit, or
190 estat ic //AIC = 42232; BIC = 42292 both higher
191
192 /* 21 */
193 melogit enroll_FHSP_total c.wave##(i.urbanicity c.cperc_hispanic) c.cperc_ecodis || district
: wave, binomial(enroll_HStotal_district) vce(robust) cov(uns) dnumerical
194 melogit, or
195 estat ic //AIC = 42248; BIC = 42320
196
197 /* 22 */
198 melogit enroll_FHSP_total c.wave##(i.urbanicity c.cperc_black) c.cperc_hispanic c.cperc_male
|| district: wave, binomial(enroll_HStotal_district) vce(robust) cov(uns) dnumerical
199 melogit, or
200 estat ic //AIC =42235; BIC = 42313
201
202 /* 23 */
203 melogit enroll_FHSP_total c.wave##(i.urbanicity c.cperc_black c.cperc_male) c.cperc_hispanic
|| district: wave, binomial(enroll_HStotal_district) vce(robust) cov(uns) dnumerical
204 melogit, or
205 estat ic //AIC = 42197 ; BIC = 42280 Lowest AIC and BIC yet.
206
207 /* 24 */
208 melogit enroll_FHSP_total c.wave##(i.urbanicity c.cperc_black c.cperc_male) || district:
wave, binomial(enroll_HStotal_district) vce(robust) cov(uns) dnumerical
209 melogit, or
210 estat ic //AIC = 42209 ; BIC = 42287 too high
211
212 /* 25 */
213 melogit enroll_FHSP_total c.wave##(i.urbanicity c.cperc_black c.cperc_male c.cperc_lep) c.
cperc_hispanic || district: wave, binomial(enroll_HStotal_district) vce(robust) cov(uns)
dnumerical
214 melogit, or
215 estat ic //AIC = 42201 ; BIC = 42297 too high
216
217 /* 26 */
218 melogit enroll_FHSP_total c.wave##(i.urbanicity c.cperc_black c.cperc_male) c.cperc_lep c.
cperc_hispanic || district: wave, binomial(enroll_HStotal_district) vce(robust) cov(uns)
dnumerical
219 melogit, or
220 estat ic //AIC = 42199 ; BIC = 42289 doesn't add any significance
221
222 /* 27 */
223 melogit enroll_FHSP_total c.wave##i.urbanicity##c.cperc_black##c.cperc_male || district:
wave, binomial(enroll_HStotal_district) vce(robust) cov(uns) dnumerical
224 melogit, or

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282 melogit, or
283 estat icc //ICC = .7019087
284 estat ic //AIC = 577683 ; BIC = 577695
285
286 melogit enroll_dist_totalmf || district: wave, binomial(enroll_FHSP_total) vce(robust) cov(
uns) dnumerical
287 melogit, or
288 estat ic //never converged
289
290 melogit enroll_dist_totalmf wave || district:, binomial(enroll_FHSP_total) vce(robust) cov(
uns) dnumerical
291 melogit, or
292 estat ic // AIC = 408228.5 BIC = 408246.4
293
294 melogit enroll_dist_totalmf urbanicity wave || district:, binomial(enroll_FHSP_total) vce(
robust) cov(uns) dnumerical
295 melogit, or
296 estat ic // AIC = 408230 BIC = 408254 - Urbanicity n.s.
297
298 melogit enroll_dist_totalmf i.urbanicity c.wave#i.urbanicity || district:, binomial(
enroll_FHSP_total) vce(robust) cov(uns) dnumerical
299 melogit, or
300 estat ic // doesn't converge
301
302 melogit enroll_dist_totalmf wave c.wave#i.urbanicity || district:, binomial(
enroll_FHSP_total) vce(robust) cov(uns) dnumerical
303 melogit, or
304 estat ic // AIC = 407646 BIC = 407670 - wave sig, urb n.s.
305
306 melogit enroll_dist_totalmf c.wave##c.cperc_black || district:, binomial(enroll_FHSP_total)
vce(robust) cov(uns) dnumerical
307 melogit, or
308 estat ic // AIC = 407357 BIC = 407386 - lower, black n.s.
309
310 melogit enroll_dist_totalmf wave c.cperc_black || district:, binomial(enroll_FHSP_total) vce
(robust) cov(uns) dnumerical
311 melogit, or
312 estat ic // AIC = 407646 BIC = 407670 - lower, black n.s
313
314 melogit enroll_dist_totalmf wave c.cperc_black c.cperc_hisp|| district:, binomial(
enroll_FHSP_total) vce(robust) cov(uns) dnumerical
315 melogit, or
316 estat ic // AIC = 407593 BIC = 407623 - lower, black and hisp n.s.
317
318 melogit enroll_dist_totalmf wave c.cperc_black c.cperc_hisp c.cperc_ecodis|| district:,
binomial(enroll_FHSP_total) vce(robust) cov(uns) dnumerical
319 melogit, or
320 estat ic // AIC = 407441 BIC = 407477, all n.s.
321
322 melogit enroll_dist_totalmf wave c.cperc_ecodis|| district:, binomial(enroll_FHSP_total) vce
(robust) cov(uns) dnumerical
323 melogit, or
324 estat ic // AIC = 408020 BIC = 408044 - higher
325
326 melogit enroll_dist_totalmf wave c.cperc_hisp|| district:, binomial(enroll_FHSP_total) vce(
robust) cov(uns) dnumerical
327 melogit, or
328 estat ic // AIC = 408227 BIC = 408251 - higher
329
330 melogit enroll_dist_totalmf wave c.cperc_hisp c.cperc_ecodis|| district:, binomial(
enroll_FHSP total) vce(robust) cov(uns) dnumerical
331 melogit, or
332 estat ic // AIC = 408022 BIC = 408052, hisp and ecodis n.s.
333
334 melogit enroll_dist_totalmf wave c.cperc_male|| district:, binomial(enroll_FHSP_total) vce(
robust) cov(uns) dnumerical
335 melogit, or
336 estat ic // doesn't converge
337
338 melogit enroll_dist_totalmf wave c.cperc_lep|| district:, binomial(enroll_FHSP_total) vce(
robust) cov(uns) dnumerical

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339 melogit, or
340 estat ic // AIC = 395551 BIC = 395575
341
342 melogit enroll_dist_totalmf wave c.cperc_white|| district:, binomial(enroll_FHSP_total) vce(
robust) cov(uns) dnumerical
343 melogit, or
344 estat ic // AIC = 407190 BIC = 407214 - lower but white n.s.
345
346 melogit enroll_dist_totalmf wave c.cperc_black##c.perc_hisp|| district:, binomial(
enroll_FHSP_total) vce(robust) cov(uns) dnumerical
347 melogit, or
348 estat ic // doesn't converge
349
350 /*****
*****
351 *****/
352 Enrolled in Distinguished Individual Logits by Year
353 *****/
354 *****/
355
356 glm enroll_dist_totalmf i.urbanicity if year == 2017 & enroll_FHSP_total > 0, f(b
enroll_FHSP_total) vce(robust) eform
357 //urb n.s.
358 glm enroll_dist_totalmf c.perc_lep if year == 2017 & enroll_FHSP_total > 0, f(b
enroll_FHSP_total) vce(robust) eform
359 //lep N.S.
360 glm enroll_dist_totalmf c.perc_hisp if year == 2017 & enroll_FHSP_total > 0, f(b
enroll_FHSP_total) vce(robust) eform
361 //hisp N.S.
362 glm enroll_dist_totalmf c.perc_black if year == 2017 & enroll_FHSP_total > 0, f(b
enroll_FHSP_total) vce(robust) eform
363 //black N.S.
364 glm enroll_dist_totalmf c.perc_ecodis if year == 2017 & enroll_FHSP_total > 0, f(b
enroll_FHSP_total) vce(robust) eform
365 //ecodis N.S.
366 glm enroll_dist_totalmf c.perc_male if year == 2017 & enroll_FHSP_total > 0, f(b
enroll_FHSP_total) vce(robust) eform
367 //ecodis N.S.
368
369 glm enroll_dist_totalmf i.urbanicity if year == 2016 & enroll_FHSP_total > 0, f(b
enroll_FHSP_total) vce(robust) eform
370 //urb n.s.
371 glm enroll_dist_totalmf c.perc_lep if year == 2016 & enroll_FHSP_total > 0, f(b
enroll_FHSP_total) vce(robust) eform
372 //lep N.S.
373 glm enroll_dist_totalmf c.perc_hisp if year == 2016 & enroll_FHSP_total > 0, f(b
enroll_FHSP_total) vce(robust) eform
374 //hisp N.S.
375 glm enroll_dist_totalmf c.perc_black if year == 2016 & enroll_FHSP_total > 0, f(b
enroll_FHSP_total) vce(robust) eform
376 //black N.S.
377 glm enroll_dist_totalmf c.perc_ecodis if year == 2016 & enroll_FHSP_total > 0, f(b
enroll_FHSP_total) vce(robust) eform
378 //ecodis N.S.
379 glm enroll_dist_totalmf c.perc_male if year == 2016 & enroll_FHSP_total > 0, f(b
enroll_FHSP_total) vce(robust) eform
380 //ecodis N.S.
381
382 glm enroll_dist_totalmf i.urbanicity if year == 2015 & enroll_FHSP_total > 0, f(b
enroll_FHSP_total) vce(robust) eform
383 //urb n.s.
384 glm enroll_dist_totalmf c.perc_lep if year == 2015 & enroll_FHSP_total > 0, f(b
enroll_FHSP_total) vce(robust) eform
385 //lep N.S.
386 glm enroll_dist_totalmf c.perc_hisp if year == 2015 & enroll_FHSP_total > 0, f(b
enroll_FHSP_total) vce(robust) eform
387 //hisp N.S.
388 glm enroll_dist_totalmf c.perc_black if year == 2015 & enroll_FHSP_total > 0, f(b
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389 enroll_FHSP_total) vce(robust) eform
390 //black N.S.
391 glm enroll_dist_totalmf c.perc_ecodis if year == 2015 & enroll_FHSP_total > 0, f(b
392 enroll_FHSP_total) vce(robust) eform
393 //ecodis N.S.
394
395 /*****
396 *****/
397 District Offerings Total Poisson
398 *****/
399 *****/
400
401 mepoisson offer_total || district:, vce(robust) cov(uns)
402
403 mepoisson offer_total || district: wave, vce(robust) cov(uns)
404 //doesn't converge
405
406 mepoisson offer_total wave || district:, vce(robust) cov(uns)
407 //doesn't converge
408
409 poisson offer_total wave, vce(cluster district) irr
410 estat ic
411
412 poisson offer_total wave i.urbanicity, vce(cluster district) irr
413 estat ic //psuedo r2 higher, AIC BIC lower rural sig
414
415 poisson offer_total wave i.urbanicity cperc_black, vce(cluster district) irr
416 estat ic //psuedo r2 same, AIC BIC higher black n.s.
417
418 poisson offer_total wave i.urbanicity cperc_hisp, vce(cluster district) irr
419 estat ic //psuedo r2 same, AIC BIC higher hisp n.s.
420
421 poisson offer_total wave i.urbanicity cperc_ecodis, vce(cluster district) irr
422 estat ic //psuedo r2 same, AIC BIC higher hisp n.s.
423
424 poisson offer_total wave i.urbanicity cperc_lep, vce(cluster district) irr
425 estat ic //psuedo r2 same, AIC BIC higher lep n.s.
426
427 poisson offer_total wave i.urbanicity cperc_male, vce(cluster district) irr
428 estat ic //psuedo r2 same, AIC BIC higher lep n.s.
429
430 //final model!!!
431 poisson offer_total c.wave##i.urbanicity, vce(cluster district) irr
432 estat ic //psuedo r2 higher, AIC BIC lower rural sig, wave#rural sig
433
434 poisson offer_total ibn.urbanicity#ibn.wave, vce(cluster district) nocons irr
435 estat ic
436
437 /*****
438 *****/
439 District Offerings by Endorsement Logits
440 *****/
441 *****/
442
443 logit offer_stem i.urbanicity##c.wave, vce(cluster district) or
444 logit offer_multidisc i.urbanicity##c.wave, vce(cluster district) or
445 logit offer_arts i.urbanicity##c.wave, vce(cluster district) or
446 logit offer_business i.urbanicity##c.wave, vce(cluster district) or
447 logit offer_public i.urbanicity##c.wave, vce(cluster district) or
448

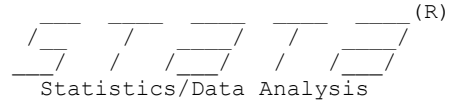
```

```

449 bysort urbanicity: sum perc_black perc_hisp perc_white perc_lep perc_eco
450
451
452
453
454 *****Graduate Data*****
455 use c_grad_final_long_proportions, replace
456
457 /*Given that some variables are not integers because of the 2.5, we need to rounddown these
totals*/
458 replace grad fhsp total = int(grad fhsp total)
459 replace grad_total = int(grad_total)
460 /*After rounding, etc., some districts show more students in FHSP than in the district.
Change these
values to 100%*/
461 replace grad_fhsp_total = grad_total if grad_total < grad_fhsp_total
462 drop if grad_total == 0
463
464 /*Create proportions of minority, ecodis and LEP students.*/
465 gen perc_minority = (grad_black + grad_hispanic) / grad_total
466 gen perc_black = grad_black / grad_total
467 gen perc_hispanic = grad_hispanic / grad_total
468 gen perc_ecodis = grad_eco / grad_total
469 gen perc_lep = grad_lep / grad_total
470 foreach x of varlist perc_* {
471 egen m`x' = mean(`x')
472 gen c`x' = `x' - m`x'
473 }
474
475
476 gen wave = .
477 replace wave = 0 if year == 2015
478 replace wave = 1 if year == 2016
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495

```

APPENDIX E: Stata Output of Data Analysis



Project: Dissertation
 (Std. Err. adjusted for **978** clusters in district)

enroll_dist_totalmf	Odds Ratio	Robust		z	P> z	[95% Conf. Interval]	
		Std. Err.					
wave	2.83922	.3891704		7.61	0.000	2.170327	3.714264
cperc_white	.0007048	.0044619		-1.15	0.252	2.88e-09	172.5555
_cons	.2887961	.056339		-6.37	0.000	.1970321	.4232975
district							
var(_cons)	14.35287	8.136892				4.724741	43.60133

1 . estat ic // AIC = 407190 BIC = 407214 - lower but white n.s.

Akaike's information criterion and Bayesian information criterion

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	2,929	.	-203591	4	407190.1	407214

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#).

2 .
end of do-file

3 . do "C:\Users\kla86\AppData\Local\Temp\48\STD00000000.tmp"

4 . melogit enroll_dist_totalmf wave c.cperc_lep|| district:, binomial(enroll_FHSP_total) vce(r
> obust) cov(uns) dnumerical

Fitting fixed-effects model:

```
Iteration 0: log likelihood = -997280.35
Iteration 1: log likelihood = -950388.53
Iteration 2: log likelihood = -950038.38
Iteration 3: log likelihood = -950038.38
```

Refining starting values:

```
Grid node 0: log likelihood = -230078.91
```

Fitting full model:

```
Iteration 0: log pseudolikelihood = -230078.91 (not concave)
Iteration 1: log pseudolikelihood = -221684.87
Iteration 2: log pseudolikelihood = -198730.88
Iteration 3: log pseudolikelihood = -198529.16
Iteration 4: log pseudolikelihood = -198374.55
Iteration 5: log pseudolikelihood = -198252.91
Iteration 6: log pseudolikelihood = -198155.55
Iteration 7: log pseudolikelihood = -198076.7
Iteration 8: log pseudolikelihood = -198012.51
Iteration 9: log pseudolikelihood = -197960.28
Iteration 10: log pseudolikelihood = -197917.88
Iteration 11: log pseudolikelihood = -197883.72
Iteration 12: log pseudolikelihood = -197856.42
Iteration 13: log pseudolikelihood = -197834.86
Iteration 14: log pseudolikelihood = -197818.07
Iteration 15: log pseudolikelihood = -197805.17
Iteration 16: log pseudolikelihood = -197795.43
Iteration 17: log pseudolikelihood = -197788.21
Iteration 18: log pseudolikelihood = -197782.96
Iteration 19: log pseudolikelihood = -197779.21
Iteration 20: log pseudolikelihood = -197776.6
Iteration 21: log pseudolikelihood = -197774.81
```

Iteration 22: log pseudolikelihood = -197772.71
 Iteration 23: log pseudolikelihood = -197771.91
 Iteration 24: log pseudolikelihood = -197771.65
 Iteration 25: log pseudolikelihood = -197771.57
 Iteration 26: log pseudolikelihood = -197771.59
 Iteration 27: log pseudolikelihood = -197771.59

Mixed-effects logistic regression
 Binomial variable: **enroll_FHS~1**
 Group variable: **district**
 Number of obs = 2,929
 Number of groups = 978
 Obs per group:
 min = 1
 avg = 3.0
 max = 3

Integration method: **mvaghermite**
 Integration pts. = 7
 Wald chi2(2) = 114.83
 Prob > chi2 = 0.0000
 Log pseudolikelihood = -197771.59
 (Std. Err. adjusted for 978 clusters in district)

enroll_dist_totalmf	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
wave	1.327296	.1240233	10.70	0.000	1.084215	1.570377
cperc_lep	7.890974	1.924143	4.10	0.000	4.119724	11.66223
_cons	-1.494251	.1783608	-8.38	0.000	-1.843831	-1.14467
district						
var(_cons)	9.632644	.6410157			8.45476	10.97463

5 . melogit, or

Mixed-effects logistic regression
 Binomial variable: **enroll_FHS~1**
 Group variable: **district**
 Number of obs = 2,929
 Number of groups = 978
 Obs per group:
 min = 1
 avg = 3.0
 max = 3

Integration method: **mvaghermite**
 Integration pts. = 7
 Wald chi2(2) = 114.83
 Prob > chi2 = 0.0000
 Log pseudolikelihood = -197771.59
 (Std. Err. adjusted for 978 clusters in district)

enroll_dist_totalmf	Odds Ratio	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
wave	3.770834	.4676712	10.70	0.000	2.957117	4.808462
cperc_lep	2673.047	5143.325	4.10	0.000	61.54224	116102.1
_cons	.2244167	.0400271	-8.38	0.000	.1582101	.318329
district						
var(_cons)	9.632644	.6410157			8.45476	10.97463


```
6 . estat ic // AIC = 395551 BIC = 395575
```

Akaike's information criterion and Bayesian information criterion

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	2,929	.	-197771.6	4	395551.2	395575.1

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#).

```
7 .
```

```
8 . melogit enroll_dist_totalmf wave c.perc_white|| district:, binomial(enroll_FHSP_total) vce  
> (robust) cov(uns) dnumerical
```

Fitting fixed-effects model:

```
Iteration 0: log likelihood = -996000.17  
Iteration 1: log likelihood = -947587.41  
Iteration 2: log likelihood = -947252.91  
Iteration 3: log likelihood = -947252.91
```

Refining starting values:

```
Grid node 0: log likelihood = -229435.33
```

Fitting full model:

```
Iteration 0: log pseudolikelihood = -229435.33 (not concave)  
Iteration 1: log pseudolikelihood = -214712  
Iteration 2: log pseudolikelihood = -207683.54  
Iteration 3: log pseudolikelihood = -206398.51  
Iteration 4: log pseudolikelihood = -205584.56  
Iteration 5: log pseudolikelihood = -205054.57  
Iteration 6: log pseudolikelihood = -204697.27  
Iteration 7: log pseudolikelihood = -204564.11  
Iteration 8: log pseudolikelihood = -204450.3  
Iteration 9: log pseudolikelihood = -204352.03  
Iteration 10: log pseudolikelihood = -204266.72  
Iteration 11: log pseudolikelihood = -204192.02  
Iteration 12: log pseudolikelihood = -204126.25  
Iteration 13: log pseudolikelihood = -204068.07  
Iteration 14: log pseudolikelihood = -204016.28  
Iteration 15: log pseudolikelihood = -203970.1  
Iteration 16: log pseudolikelihood = -203928.73  
Iteration 17: log pseudolikelihood = -203891.58  
Iteration 18: log pseudolikelihood = -203858.24  
Iteration 19: log pseudolikelihood = -203828.22  
Iteration 20: log pseudolikelihood = -203801.22  
Iteration 21: log pseudolikelihood = -203776.97  
Iteration 22: log pseudolikelihood = -203755.08  
Iteration 23: log pseudolikelihood = -203735.43  
Iteration 24: log pseudolikelihood = -203717.83  
Iteration 25: log pseudolikelihood = -203702.07  
Iteration 26: log pseudolikelihood = -203687.98  
Iteration 27: log pseudolikelihood = -203675.42  
Iteration 28: log pseudolikelihood = -203664.26  
Iteration 29: log pseudolikelihood = -203654.35  
Iteration 30: log pseudolikelihood = -203645.6  
Iteration 31: log pseudolikelihood = -203637.88  
Iteration 32: log pseudolikelihood = -203631.1  
Iteration 33: log pseudolikelihood = -203625.17  
Iteration 34: log pseudolikelihood = -203619.99  
Iteration 35: log pseudolikelihood = -203615.5  
Iteration 36: log pseudolikelihood = -203611.61  
Iteration 37: log pseudolikelihood = -203605.29  
Iteration 38: log pseudolikelihood = -203600.69
```

Iteration 39: log pseudolikelihood = -203597.4
 Iteration 40: log pseudolikelihood = -203595.11
 Iteration 41: log pseudolikelihood = -203593.55
 Iteration 42: log pseudolikelihood = -203592.51
 Iteration 43: log pseudolikelihood = -203591.84
 Iteration 44: log pseudolikelihood = -203591.42
 Iteration 45: log pseudolikelihood = -203591.17
 Iteration 46: log pseudolikelihood = -203590.94
 Iteration 47: log pseudolikelihood = -203590.92
 Iteration 48: log pseudolikelihood = -203590.94
 Iteration 49: log pseudolikelihood = -203591.02
 Iteration 50: log pseudolikelihood = -203591.04
 Iteration 51: log pseudolikelihood = -203591.05

Mixed-effects logistic regression
 Binomial variable: **enroll_FHS~1**
 Group variable: **district**
 Number of obs = 2,929
 Number of groups = 978
 Obs per group:
 min = 1
 avg = 3.0
 max = 3

Integration method: **mvaghermite**
 Integration pts. = 7
 Wald chi2(2) = 90.57
 Prob > chi2 = 0.0000
 Log pseudolikelihood = -203591.05
 (Std. Err. adjusted for 978 clusters in district)

enroll_dist_totalmf	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
wave	1.043529	.1370695	7.61	0.000	.774878	1.312181
cperc_white	-7.25762	6.330902	-1.15	0.252	-19.66596	5.150719
_cons	-1.242034	.1950823	-6.37	0.000	-1.624389	-.8596801
district						
var(_cons)	14.35287	8.136892			4.724741	43.60133

9 . melogit, or

Mixed-effects logistic regression
 Binomial variable: **enroll_FHS~1**
 Group variable: **district**
 Number of obs = 2,929
 Number of groups = 978
 Obs per group:
 min = 1
 avg = 3.0
 max = 3

Integration method: **mvaghermite**
 Integration pts. = 7
 Wald chi2(2) = 90.57
 Prob > chi2 = 0.0000
 Log pseudolikelihood = -203591.05
 (Std. Err. adjusted for 978 clusters in district)

enroll_dist_totalmf	Odds Ratio	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
wave	2.83922	.3891704	7.61	0.000	2.170327	3.714264
cperc_white	.0007048	.0044619	-1.15	0.252	2.88e-09	172.5555
_cons	.2887961	.056339	-6.37	0.000	.1970321	.4232975
district						
var(_cons)	14.35287	8.136892			4.724741	43.60133

10 . estat ic // AIC = 407190 BIC = 407214 - lower but white n.s.

Akaike's information criterion and Bayesian information criterion

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	2,929	.	-203591	4	407190.1	407214

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#).

11 .
end of do-file

12 . do "C:\Users\kla86\AppData\Local\Temp\48\STD00000000.tmp"

13 . glm enroll_dist_totalmf i.urbanicity if year == 2017 & enroll_FHSP_total > 0, f(b enroll_FHSP_total) vce(robust) eform

Iteration 0: log pseudolikelihood = -382676.92
 Iteration 1: log pseudolikelihood = -380941.24
 Iteration 2: log pseudolikelihood = -380940.29
 Iteration 3: log pseudolikelihood = -380940.29

Generalized linear models		No. of obs	=	974
Optimization	: ML	Residual df	=	971
		Scale parameter	=	1
Deviance	= 757654.6049	(1/df) Deviance	=	780.2828
Pearson	= 690672.7566	(1/df) Pearson	=	711.3005

Variance function: $V(u) = u*(1-u/enroll_FHSP_total)$ [Binomial]
 Link function : $g(u) = \ln(u/(enroll_FHSP_total-u))$ [Logit]

Log pseudolikelihood = -380940.285	<u>AIC</u>	=	782.2244
	<u>BIC</u>	=	750972.8

enroll_dist_totalmf	Odds Ratio	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
urbanicity						
2	.7154855	.2573816	-0.93	0.352	.3535071	1.448117
3	.7229994	.2261679	-1.04	0.300	.391621	1.334781
_cons	3.032748	.8976038	3.75	0.000	1.697875	5.4171

14 . //urb n.s.

15 . glm enroll_dist_totalmf c.perc_lep if year == 2017 & enroll_FHSP_total > 0, f(b enroll_FHSP_total) vce(robust) eform

Iteration 0: log pseudolikelihood = -382312.21
 Iteration 1: log pseudolikelihood = -378286.84
 Iteration 2: log pseudolikelihood = -378282.28
 Iteration 3: log pseudolikelihood = -378282.28

Generalized linear models		No. of obs	=	974
Optimization	: ML	Residual df	=	972
		Scale parameter	=	1
Deviance	= 752338.6037	(1/df) Deviance	=	774.0109
Pearson	= 687742.8923	(1/df) Pearson	=	707.5544

Variance function: $V(u) = u*(1-u/enroll_FHSP_total)$ [Binomial]
 Link function : $g(u) = \ln(u/(enroll_FHSP_total-u))$ [Logit]

enroll_dist_totalmf	Odds Ratio	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
perc_black	.2385392	.2598845	-1.32	0.188	.0281962	2.018039
_cons	2.926971	.493851	6.37	0.000	2.10281	4.074147

```

20 . //black N.S.
21 . glm enroll_dist_totalmf c.perc_ecodis if year == 2017 & enroll_FHSP_total > 0, f(b enroll_F
> HSP_total) vce(robust) eform

```

```

Iteration 0: log pseudolikelihood = -381717.72
Iteration 1: log pseudolikelihood = -379213.66
Iteration 2: log pseudolikelihood = -379207.35
Iteration 3: log pseudolikelihood = -379207.35

```

```

Generalized linear models              No. of obs      =           974
Optimization      : ML                 Residual df    =           972
                                                Scale parameter =           1
Deviance          = 754188.7393        (1/df) Deviance =       775.9143
Pearson          = 688263.8801        (1/df) Pearson  =       708.0904

```

```

Variance function: V(u) = u*(1-u/enroll_FHSP_total) [Binomial]
Link function      : g(u) = ln(u/(enroll_FHSP_total-u)) [Logit]

```

```

Log pseudolikelihood = -379207.3522      AIC           =       778.664
                                                BIC           =       747500

```

enroll_dist_totalmf	Odds Ratio	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
perc_ecodis	.4038411	.2791804	-1.31	0.190	.1041752	1.565513
_cons	4.122028	1.795708	3.25	0.001	1.755076	9.681127

```

22 . //ecodis N.S.
23 . glm enroll_dist_totalmf c.perc_male if year == 2017 & enroll_FHSP_total > 0, f(b enroll_FHS
> P_total) vce(robust) eform

```

```

Iteration 0: log pseudolikelihood = -383723.56
Iteration 1: log pseudolikelihood = -382869.26
Iteration 2: log pseudolikelihood = -382869.04
Iteration 3: log pseudolikelihood = -382869.04

```

```

Generalized linear models              No. of obs      =           974
Optimization      : ML                 Residual df    =           972
                                                Scale parameter =           1
Deviance          = 761512.1246        (1/df) Deviance =       783.4487
Pearson          = 693547.0394        (1/df) Pearson  =       713.5258

```

```

Variance function: V(u) = u*(1-u/enroll_FHSP_total) [Binomial]
Link function      : g(u) = ln(u/(enroll_FHSP_total-u)) [Logit]

```

```

Log pseudolikelihood = -382869.0449      AIC           =       786.1828
                                                BIC           =       754823.4

```

enroll_dist_totalmf	Odds Ratio	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
perc_male	.0028409	.0114108	-1.46	0.144	1.08e-06	7.45318
_cons	49.11552	103.6016	1.85	0.065	.7865773	3066.875

```

24 . //ecodis N.S.
25 .
26 . glm enroll_dist_totalmf i.urbanicity if year == 2016 & enroll_FHSP_total > 0, f(b enroll_FH
> SP_total) vce(robust) eform

```

```

Iteration 0: log pseudolikelihood = -348030.26
Iteration 1: log pseudolikelihood = -344008.18
Iteration 2: log pseudolikelihood = -343968.32
Iteration 3: log pseudolikelihood = -343968.32

```

```

Generalized linear models          No. of obs      =          974
Optimization      :  ML              Residual df    =          971
                                      Scale parameter =           1
Deviance          =  684349.3615      (1/df) Deviance =  704.7882
Pearson           =  574840.9667      (1/df) Pearson  =  592.0092

```

```

Variance function: V(u) = u*(1-u/enroll_FHSP_total) [Binomial]
Link function      : g(u) = ln(u/(enroll_FHSP_total-u)) [Logit]

```

```

Log pseudolikelihood = -343968.3192      AIC          =  706.3066
                                      BIC          =  677667.5

```

enroll_dist_totalmf	Odds Ratio	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
urbanicity						
2	.7330281	.2708383	-0.84	0.401	.3553201	1.512243
3	.8776026	.2841726	-0.40	0.687	.4652369	1.655472
_cons	2.227158	.6894893	2.59	0.010	1.214042	4.085716

```

27 . //urb n.s.
28 . glm enroll_dist_totalmf c.perc_lep if year == 2016 & enroll_FHSP_total > 0, f(b enroll_FHSP
> _total) vce(robust) eform

```

```

Iteration 0: log pseudolikelihood = -348905.33
Iteration 1: log pseudolikelihood = -345189.09
Iteration 2: log pseudolikelihood = -345160.15
Iteration 3: log pseudolikelihood = -345160.15

```

```

Generalized linear models          No. of obs      =          974
Optimization      :  ML              Residual df    =          972
                                      Scale parameter =           1
Deviance          =  686733.0265      (1/df) Deviance =  706.5155
Pearson           =  575711.5918      (1/df) Pearson  =  592.2959

```

```

Variance function: V(u) = u*(1-u/enroll_FHSP_total) [Binomial]
Link function      : g(u) = ln(u/(enroll_FHSP_total-u)) [Logit]

```

```

Log pseudolikelihood = -345160.1517      AIC          =  708.7519
                                      BIC          =  680044.3

```

enroll_dist_totalmf	Odds Ratio	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
perc_lep	.2828579	.5741915	-0.62	0.534	.0052925	15.1174
_cons	2.055863	.3935327	3.77	0.000	1.412724	2.991788

```

29 . //lep N.S.
30 . glm enroll_dist_totalmf c.perc_hisp if year == 2016 & enroll_FHSP_total > 0, f(b enroll_FHS
> P_total) vce(robust) eform

```

```

Iteration 0: log pseudolikelihood = -347308.05
Iteration 1: log pseudolikelihood = -345747.66
Iteration 2: log pseudolikelihood = -345745.71
Iteration 3: log pseudolikelihood = -345745.71

```

```

Generalized linear models          No. of obs      =          974
Optimization      :  ML              Residual df    =          972
                                      Scale parameter =           1
Deviance          =  687904.1343      (1/df) Deviance =       707.7203
Pearson           =  575921.4579      (1/df) Pearson  =       592.5118

```

```

Variance function:  V(u) = u*(1-u/enroll_FHSP_total) [Binomial]
Link function      :  g(u) = ln(u/(enroll_FHSP_total-u)) [Logit]

```

```

Log pseudolikelihood = -345745.7056      AIC          =       709.9542
                                      BIC          =       681215.4

```

enroll_dist_totalmf	Robust		z	P> z	[95% Conf. Interval]	
	Odds Ratio	Std. Err.				
perc_hispanic	1.09169	.5290765	0.18	0.856	.4222535	2.822446
_cons	1.787135	.4787595	2.17	0.030	1.057127	3.021257

```

31 . //hisp N.S.
32 . glm enroll_dist_totalmf c.perc_black if year == 2016 & enroll_FHSP_total > 0, f(b enroll_FH
> SP_total) vce(robust) eform

```

```

Iteration 0: log pseudolikelihood = -344341.45
Iteration 1: log pseudolikelihood = -342865.19
Iteration 2: log pseudolikelihood = -342864.67
Iteration 3: log pseudolikelihood = -342864.67

```

```

Generalized linear models          No. of obs      =          974
Optimization      :  ML              Residual df    =          972
                                      Scale parameter =           1
Deviance          =  682142.0554      (1/df) Deviance =       701.7922
Pearson           =  574748.0363      (1/df) Pearson  =       591.3046

```

```

Variance function:  V(u) = u*(1-u/enroll_FHSP_total) [Binomial]
Link function      :  g(u) = ln(u/(enroll_FHSP_total-u)) [Logit]

```

```

Log pseudolikelihood = -342864.6661      AIC          =       704.0383
                                      BIC          =       675453.3

```

enroll_dist_totalmf	Robust		z	P> z	[95% Conf. Interval]	
	Odds Ratio	Std. Err.				
perc_black	.2263792	.2546437	-1.32	0.187	.0249665	2.052649
_cons	2.257449	.3918492	4.69	0.000	1.606446	3.172269

```

33 . //black N.S.
34 . glm enroll_dist_totalmf c.perc_ecodis if year == 2016 & enroll_FHSP_total > 0, f(b enroll_F
> HSP_total) vce(robust) eform

```

```

Iteration 0: log pseudolikelihood = -347751.41
Iteration 1: log pseudolikelihood = -345222.93
Iteration 2: log pseudolikelihood = -345219.39
Iteration 3: log pseudolikelihood = -345219.39

```

```

Generalized linear models          No. of obs      =          974
Optimization      :  ML              Residual df    =          972
                                      Scale parameter =           1
Deviance          =  686851.5064      (1/df) Deviance =  706.6374
Pearson           =  575887.2747      (1/df) Pearson  =  592.4766

```

```

Variance function: V(u) = u*(1-u/enroll_FHSP_total) [Binomial]
Link function      : g(u) = ln(u/(enroll_FHSP_total-u)) [Logit]

```

```

Log pseudolikelihood = -345219.3916      AIC           =  708.8735
                                      BIC           =  680162.8

```

enroll_dist_totalmf	Robust		z	P> z	[95% Conf. Interval]	
	Odds Ratio	Std. Err.				
perc_ecodis	.6956467	.4640926	-0.54	0.586	.1881566	2.571923
_cons	2.301432	.9539999	2.01	0.044	1.021302	5.186114

```

35 . //ecodis N.S.
36 . glm enroll_dist_totalmf c.perc_male if year == 2016 & enroll_FHSP_total > 0, f(b enroll_FHS
> P_total) vce(robust) eform

```

```

Iteration 0: log pseudolikelihood = -347108.4
Iteration 1: log pseudolikelihood = -345724.24
Iteration 2: log pseudolikelihood = -345722.99
Iteration 3: log pseudolikelihood = -345722.99

```

```

Generalized linear models          No. of obs      =          974
Optimization      :  ML              Residual df    =          972
                                      Scale parameter =           1
Deviance          =  687858.6982      (1/df) Deviance =  707.6736
Pearson           =  575883.4926      (1/df) Pearson  =  592.4727

```

```

Variance function: V(u) = u*(1-u/enroll_FHSP_total) [Binomial]
Link function      : g(u) = ln(u/(enroll_FHSP_total-u)) [Logit]

```

```

Log pseudolikelihood = -345722.9875      AIC           =  709.9076
                                      BIC           =  681170

```

enroll_dist_totalmf	Robust		z	P> z	[95% Conf. Interval]	
	Odds Ratio	Std. Err.				
perc_male	.17771	.6668153	-0.46	0.645	.0001137	277.7452
_cons	4.524398	8.903968	0.77	0.443	.0955884	214.1493


```

37 . //ecodis N.S.
38 .
39 . glm enroll_dist_totalmf i.urbanicity if year == 2015 & enroll_FHSP_total > 0, f(b enroll_FH
> SP_total) vce(robust) eform

```

```

Iteration 0: log pseudolikelihood = -270686.33
Iteration 1: log pseudolikelihood = -215378.68
Iteration 2: log pseudolikelihood = -213416.13
Iteration 3: log pseudolikelihood = -213415.9
Iteration 4: log pseudolikelihood = -213415.9

```

```

Generalized linear models          No. of obs      =          971
Optimization      :  ML              Residual df    =          968
                                          Scale parameter =           1
Deviance          =  424463.8254      (1/df) Deviance =  438.4957
Pearson           =  330235.2123      (1/df) Pearson  =  341.1521

```

```

Variance function: V(u) = u*(1-u/enroll_FHSP_total) [Binomial]
Link function      : g(u) = ln(u/(enroll_FHSP_total-u)) [Logit]

```

```

Log pseudolikelihood = -213415.904      AIC              =  439.5858
                                          BIC              =  417805.6

```

enroll_dist_totalmf	Robust					
	Odds Ratio	Std. Err.	z	P> z	[95% Conf. Interval]	
urbanicity						
2	.6228724	.24134	-1.22	0.222	.2914674	1.331092
3	.7562342	.2665565	-0.79	0.428	.3789883	1.508992
_cons	1.069743	.3491678	0.21	0.836	.5642147	2.028218

```

40 . //urb n.s.
41 . glm enroll_dist_totalmf c.perc_lep if year == 2015 & enroll_FHSP_total > 0, f(b enroll_FHSP
> _total) vce(robust) eform

```

```

Iteration 0: log pseudolikelihood = -267964.76
Iteration 1: log pseudolikelihood = -216739.67
Iteration 2: log pseudolikelihood = -215724.89
Iteration 3: log pseudolikelihood = -215724.61
Iteration 4: log pseudolikelihood = -215724.61

```

```

Generalized linear models          No. of obs      =          971
Optimization      :  ML              Residual df    =          969
                                          Scale parameter =           1
Deviance          =  429081.2368      (1/df) Deviance =  442.8083
Pearson           =  331161.9473      (1/df) Pearson  =  341.7564

```

```

Variance function: V(u) = u*(1-u/enroll_FHSP_total) [Binomial]
Link function      : g(u) = ln(u/(enroll_FHSP_total-u)) [Logit]

```

```

Log pseudolikelihood = -215724.6097      AIC              =  444.3391
                                          BIC              =  422416.1

```

enroll_dist_totalmf	Robust					
	Odds Ratio	Std. Err.	z	P> z	[95% Conf. Interval]	
perc_lep	1.710459	4.213896	0.22	0.828	.01368	213.864
_cons	.7809763	.1505715	-1.28	0.200	.5352134	1.13959

```
42 . //lep N.S.
43 . glm enroll_dist_totalmf c.perc_hisp if year == 2015 & enroll_FHSP_total > 0, f(b enroll_FHS
> P_total) vce(robust) eform
```

```
Iteration 0: log pseudolikelihood = -269788.62
Iteration 1: log pseudolikelihood = -215824.67
Iteration 2: log pseudolikelihood = -214927
Iteration 3: log pseudolikelihood = -214926.77
Iteration 4: log pseudolikelihood = -214926.77
```

```
Generalized linear models          No. of obs      =          971
Optimization      : ML              Residual df    =          969
                                      Scale parameter =           1
Deviance          = 427485.5619      (1/df) Deviance = 441.1616
Pearson           = 330923.9293      (1/df) Pearson  = 341.5108
```

```
Variance function: V(u) = u*(1-u/enroll_FHSP_total) [Binomial]
Link function      : g(u) = ln(u/(enroll_FHSP_total-u)) [Logit]
```

```
Log pseudolikelihood = -214926.7722      AIC              = 442.6957
                                      BIC              = 420820.5
```

enroll_dist_totalmf	Robust					
	Odds Ratio	Std. Err.	z	P> z	[95% Conf. Interval]	
perc_hispanic	1.634109	.8105031	0.99	0.322	.6181486	4.319855
_cons	.6371723	.1670317	-1.72	0.086	.3811697	1.065112

```
44 . //hisp N.S.
45 . glm enroll_dist_totalmf c.perc_black if year == 2015 & enroll_FHSP_total > 0, f(b enroll_FH
> SP_total) vce(robust) eform
```

```
Iteration 0: log pseudolikelihood = -268769.11
Iteration 1: log pseudolikelihood = -216835.53
Iteration 2: log pseudolikelihood = -215769.53
Iteration 3: log pseudolikelihood = -215768.88
Iteration 4: log pseudolikelihood = -215768.88
```

```
Generalized linear models          No. of obs      =          971
Optimization      : ML              Residual df    =          969
                                      Scale parameter =           1
Deviance          = 429169.7801      (1/df) Deviance = 442.8997
Pearson           = 331173.4465      (1/df) Pearson  = 341.7683
```

```
Variance function: V(u) = u*(1-u/enroll_FHSP_total) [Binomial]
Link function      : g(u) = ln(u/(enroll_FHSP_total-u)) [Logit]
```

```
Log pseudolikelihood = -215768.8813      AIC              = 444.4302
                                      BIC              = 422504.7
```

enroll_dist_totalmf	Robust					
	Odds Ratio	Std. Err.	z	P> z	[95% Conf. Interval]	
perc_black	.8844784	1.015978	-0.11	0.915	.0930965	8.40313
_cons	.8228556	.1444179	-1.11	0.267	.5833521	1.160691

```
46 . //black N.S.
47 . glm enroll_dist_totalmf c.perc_ecodis if year == 2015 & enroll_FHSP_total > 0, f(b enroll_F
> HSP_total) vce(robust) eform
```

```
Iteration 0: log pseudolikelihood = -278359.64
Iteration 1: log pseudolikelihood = -218264.66
Iteration 2: log pseudolikelihood = -215415.64
Iteration 3: log pseudolikelihood = -215407.92
Iteration 4: log pseudolikelihood = -215407.92
```

```
Generalized linear models          No. of obs      =          971
Optimization      : ML              Residual df    =          969
                                      Scale parameter =           1
Deviance          = 428447.8549      (1/df) Deviance = 442.1546
Pearson           = 331220.2622      (1/df) Pearson  = 341.8166
```

```
Variance function: V(u) = u*(1-u/enroll_FHSP_total) [Binomial]
Link function      : g(u) = ln(u/(enroll_FHSP_total-u)) [Logit]
```

```
Log pseudolikelihood = -215407.9187      AIC          = 443.6868
                                      BIC          = 421782.8
```

enroll_dist_totalmf	Robust					
	Odds Ratio	Std. Err.	z	P> z	[95% Conf. Interval]	
perc_ecodis	1.487258	1.054824	0.56	0.576	.3704075	5.971631
_cons	.6455012	.2722785	-1.04	0.299	.2823919	1.475509

```
48 . //ecodis N.S.
49 . glm enroll_dist_totalmf c.perc_male if year == 2015 & enroll_FHSP_total > 0, f(b enroll_FHS
> P_total) vce(robust) eform
```

```
Iteration 0: log pseudolikelihood = -267349.96
Iteration 1: log pseudolikelihood = -216020.44
Iteration 2: log pseudolikelihood = -215301.38
Iteration 3: log pseudolikelihood = -215301.33
Iteration 4: log pseudolikelihood = -215301.33
```

```
Generalized linear models          No. of obs      =          971
Optimization      : ML              Residual df    =          969
                                      Scale parameter =           1
Deviance          = 428234.6858      (1/df) Deviance = 441.9347
Pearson           = 330942.4287      (1/df) Pearson  = 341.5299
```

```
Variance function: V(u) = u*(1-u/enroll_FHSP_total) [Binomial]
Link function      : g(u) = ln(u/(enroll_FHSP_total-u)) [Logit]
```

```
Log pseudolikelihood = -215301.3342      AIC          = 443.4672
                                      BIC          = 421569.6
```

enroll_dist_totalmf	Robust					
	Odds Ratio	Std. Err.	z	P> z	[95% Conf. Interval]	
perc_male	.0031184	.0125348	-1.44	0.151	1.18e-06	8.230416
_cons	15.6028	32.96084	1.30	0.193	.2483385	980.3051

```

50 . //ecodis N.S.
51 .
    end of do-file

52 . do "C:\Users\kla86\AppData\Local\Temp\48\STD00000000.tmp"

53 . mepoisson offer_total || district:, vce(robust) cov(uns)

```

Fitting fixed-effects model:

```

Iteration 0:  log likelihood =  -5651.5519
Iteration 1:  log likelihood =  -5621.0357
Iteration 2:  log likelihood =    -5621
Iteration 3:  log likelihood =    -5621

```

Refining starting values:

```

Grid node 0:  log likelihood =  -6329.981

```

Fitting full model:

```

Iteration 0:  log pseudolikelihood =  -6329.981  (not concave)
Iteration 1:  log pseudolikelihood =  -5968.2334  (not concave)
Iteration 2:  log pseudolikelihood =  -5654.8457
Iteration 3:  log pseudolikelihood =  -5621.6161
Iteration 4:  log pseudolikelihood =  -5620.9972
Iteration 5:  log pseudolikelihood =  -5620.9909
Iteration 6:  log pseudolikelihood =  -5620.9909

```

```

Mixed-effects Poisson regression          Number of obs      =      2,919
Group variable:      district           Number of groups   =      978

```

```

Obs per group:
    min =      1
    avg =      3.0
    max =      3

```

```

Integration method:  mvaghermite       Integration pts.   =      7

```

```

Log pseudolikelihood =  -5620.9909        Wald chi2( 0)      =      .
                                         Prob > chi2        =      .
                                         (Std. Err. adjusted for 978 clusters in district)

```

offer_total	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
_cons	1.404451	.0113752	123.47	0.000	1.382156	1.426746
district var(_cons)	.0005044	.0049262			2.46e-12	103577.5

```

54 .
55 . mepoisson offer_total || district: wave, vce(robust) cov(uns)

```

Fitting fixed-effects model:

```

Iteration 0:  log likelihood =  -5651.5519
Iteration 1:  log likelihood =  -5621.0357
Iteration 2:  log likelihood =    -5621
Iteration 3:  log likelihood =    -5621

```

Refining starting values:

```

Grid node 0:  log likelihood =  -7284.9271

```



```
Iteration 400: log pseudolikelihood = -6095.8327 (not concave)
Iteration 401: log pseudolikelihood = -6095.8327 (not concave)
Iteration 402: log pseudolikelihood = -6095.8327 (not concave)
Iteration 403: log pseudolikelihood = -6095.8327 (not concave)
Iteration 404: log pseudolikelihood = -6095.8327 (not concave)
```

—Break—

r(1);

end of do-file

—Break—

r(1);

56 . do "C:\Users\kla86\AppData\Local\Temp\48\STD00000000.tmp"

57 . poisson offer_total wave, vce(cluster district) irr

```
Iteration 0: log pseudolikelihood = -5579.0746
Iteration 1: log pseudolikelihood = -5579.0746
```

```
Poisson regression          Number of obs   =          2,919
                          Wald chi2( 1)         =          254.64
                          Prob > chi2          =          0.0000
Log pseudolikelihood = -5579.0746          Pseudo R2       =          0.0075
```

(Std. Err. adjusted for 978 clusters in district)

offer_total	IRR	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
wave	1.108498	.0071554	15.96	0.000	1.094562	1.122612
_cons	3.662205	.051912	91.57	0.000	3.561859	3.765377

58 . estat ic

Akaike's information criterion and Bayesian information criterion

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	2,919	-5621	-5579.075	2	11162.15	11174.11

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#).

59 .
end of do-file

60 . do "C:\Users\kla86\AppData\Local\Temp\48\STD00000000.tmp"

61 . poisson offer_total wave i.urbanicity, vce(cluster district) irr

```
Iteration 0: log pseudolikelihood = -5535.3934
Iteration 1: log pseudolikelihood = -5535.3934
```

```
Poisson regression          Number of obs   =          2,919
                          Wald chi2( 3)         =          367.79
                          Prob > chi2          =          0.0000
Log pseudolikelihood = -5535.3934          Pseudo R2       =          0.0152
```

(Std. Err. adjusted for 978 clusters in district)

offer_total	IRR	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
wave	1.108499	.0071441	15.98	0.000	1.094584	1.12259
urbanicity						
2	.970677	.0216142	-1.34	0.181	.9292252	1.013978
3	.8133907	.0181328	-9.27	0.000	.7786164	.8497182
_cons	4.24691	.0902965	68.02	0.000	4.073569	4.427627

62 . estat ic //psuedo r2 higher, AIC BIC lower rural sig

Akaike's information criterion and Bayesian information criterion

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	2,919	-5621	-5535.393	4	11078.79	11102.7

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#).

63 .

64 . poisson offer_total wave i.urbanicity cperc_black, vce(cluster district) irr

Iteration 0: log pseudolikelihood = **-5535.3756**
 Iteration 1: log pseudolikelihood = **-5535.3756**

Poisson regression

Number of obs	=	2,919
Wald chi2(4)	=	368.68
Prob > chi2	=	0.0000
Pseudo R2	=	0.0152

Log pseudolikelihood = **-5535.3756**

(Std. Err. adjusted for 978 clusters in district)

offer_total	IRR	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
wave	1.108515	.0071401	15.99	0.000	1.094608	1.122598
urbanicity						
2	.9711692	.0217625	-1.31	0.192	.9294386	1.014773
3	.8141765	.0185923	-9.00	0.000	.7785397	.8514446
cperc_black	1.015782	.0885183	0.18	0.857	.8562965	1.204971
_cons	4.243473	.0916425	66.93	0.000	4.067606	4.426945

65 . estat ic //psuedo r2 same, AIC BIC higher black n.s.

Akaike's information criterion and Bayesian information criterion

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	2,919	-5621	-5535.376	5	11080.75	11110.65

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#).

```
66 .
67 . poisson offer_total wave i.urbanicity cperc_hisp, vce(cluster district) irr
```

```
Iteration 0: log pseudolikelihood = -5534.3199
Iteration 1: log pseudolikelihood = -5534.3199
```

```
Poisson regression          Number of obs   =          2,919
                          Wald chi2(    4)   =          374.56
                          Prob > chi2      =          0.0000
Log pseudolikelihood = -5534.3199          Pseudo R2      =          0.0154
```

(Std. Err. adjusted for 978 clusters in district)

offer_total	IRR	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
wave	1.108149	.0071417	15.93	0.000	1.094239	1.122235
urbanicity						
2	.9769959	.02171	-1.05	0.295	.9353584	1.020487
3	.8208834	.0189131	-8.57	0.000	.784639	.8588021
cperc_hispanic	1.051744	.0315772	1.68	0.093	.9916392	1.115491
_cons	4.214037	.0918713	65.98	0.000	4.037766	4.398004

```
68 . estat ic //psuedo r2 same, AIC BIC higher hisp n.s.
```

Akaike's information criterion and Bayesian information criterion

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	2,919	-5621	-5534.32	5	11078.64	11108.53

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#).

```
69 .
70 . poisson offer_total wave i.urbanicity cperc_ecodis, vce(cluster district) irr
```

```
Iteration 0: log pseudolikelihood = -5535.3865
Iteration 1: log pseudolikelihood = -5535.3865
```

```
Poisson regression          Number of obs   =          2,919
                          Wald chi2(    4)   =          368.09
                          Prob > chi2      =          0.0000
Log pseudolikelihood = -5535.3865          Pseudo R2      =          0.0152
```

(Std. Err. adjusted for 978 clusters in district)

offer_total	IRR	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
wave	1.108544	.0071469	15.98	0.000	1.094625	1.122641
urbanicity						
2	.9702607	.0216278	-1.35	0.176	.9287836	1.01359
3	.8133007	.0181646	-9.25	0.000	.7784668	.8496933
cperc_ecodis	.9943146	.0462752	-0.12	0.902	.9076305	1.089278
_cons	4.247504	.0906114	67.80	0.000	4.07357	4.428864

71 . estat ic //psuedo r2 same, AIC BIC higher hisp n.s.

Akaike's information criterion and Bayesian information criterion

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	2,919	-5621	-5535.387	5	11080.77	11110.67

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#).

72 .

73 . poisson offer_total wave i.urbanicity cperc_lep, vce(cluster district) irr

Iteration 0: log pseudolikelihood = -5535.3577
Iteration 1: log pseudolikelihood = -5535.3577

Poisson regression

Number of obs	=	2,919
Wald chi2(4)	=	368.27
Prob > chi2	=	0.0000
Pseudo R2	=	0.0152

Log pseudolikelihood = -5535.3577

(Std. Err. adjusted for 978 clusters in district)

offer_total	IRR	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
wave	1.107688	.0079963	14.17	0.000	1.092126	1.123472
urbanicity						
2	.9698549	.0217759	-1.36	0.173	.9281004	1.013488
3	.8123425	.0188715	-8.95	0.000	.7761845	.850185
cperc_lep	.9487908	.1985152	-0.25	0.802	.6296133	1.429773
_cons	4.254661	.0970776	63.46	0.000	4.068584	4.449248

74 . estat ic //psuedo r2 same, AIC BIC higher lep n.s.

Akaike's information criterion and Bayesian information criterion

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	2,919	-5621	-5535.358	5	11080.72	11110.61

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#).

75 .

76 . poisson offer_total wave i.urbanicity cperc_male, vce(cluster district) irr

Iteration 0: log pseudolikelihood = -5535.3062
Iteration 1: log pseudolikelihood = -5535.3062

Poisson regression

Number of obs	=	2,919
Wald chi2(4)	=	368.30
Prob > chi2	=	0.0000
Pseudo R2	=	0.0152

Log pseudolikelihood = -5535.3062

(Std. Err. adjusted for 978 clusters in district)

offer_total	IRR	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
wave	1.108543	.007135	16.01	0.000	1.094647	1.122616
urbanicity						
2	.9701196	.0216909	-1.36	0.175	.9285244	1.013578
3	.8129476	.0182267	-9.24	0.000	.7779975	.8494678
cperc_male	1.087612	.2745146	0.33	0.739	.6631772	1.783686
_cons	4.248996	.0908336	67.67	0.000	4.074644	4.430809

77 . estat ic //psuedo r2 same, AIC BIC higher lep n.s.

Akaike's information criterion and Bayesian information criterion

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	2,919	-5621	-5535.306	5	11080.61	11110.51

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#).

78 .

79 . //final model!//

80 . poisson offer_total c.wave##i.urbanicity, vce(cluster district) irr

Iteration 0: log pseudolikelihood = -5532.2812

Iteration 1: log pseudolikelihood = -5532.2812

Poisson regression

Number of obs = 2,919

Wald chi2(5) = 433.95

Prob > chi2 = 0.0000

Log pseudolikelihood = -5532.2812

Pseudo R2 = 0.0158

(Std. Err. adjusted for 978 clusters in district)

offer_total	IRR	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
wave	1.069525	.0249615	2.88	0.004	1.021704	1.119585
urbanicity						
2	.9747588	.045772	-0.54	0.586	.8890519	1.068728
3	.766354	.0354165	-5.76	0.000	.6999899	.8390099
urbanicity#c.wave						
2	.9960345	.0252131	-0.16	0.875	.9478236	1.046698
3	1.057597	.0262721	2.25	0.024	1.007338	1.110363
_cons	4.410605	.1866099	35.08	0.000	4.05961	4.791946

```

81 . estat ic //psuedo r2 higher, AIC BIC lower rural sig, wave#rural sig
Akaike's information criterion and Bayesian information criterion

```

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	2,919	-5621	-5532.281	6	11076.56	11112.44

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#).

```

82 .
83 . poisson offer_total ibn.urbanicity#ibn.wave, vce(cluster district) nocons irr

```

```

Iteration 0: log pseudolikelihood = -5576.2184
Iteration 1: log pseudolikelihood = -5526.0668
Iteration 2: log pseudolikelihood = -5525.9718
Iteration 3: log pseudolikelihood = -5525.9718

```

Poisson regression

Number of obs	=	2,919
Wald chi2(9)	=	229350.14
Prob > chi2	=	0.0000

Log pseudolikelihood = **-5525.9718**

(Std. Err. adjusted for **978** clusters in district)

offer_total	Robust		z	P> z	[95% Conf. Interval]	
	IRR	Std. Err.				
urbanicity#wave						
1 0	4.346154	.208802	30.58	0.000	3.955586	4.775285
1 1	4.846154	.095758	79.87	0.000	4.662059	5.037518
1 2	4.980769	.0190547	419.69	0.000	4.943562	5.018256
2 0	4.25	.0940524	65.38	0.000	4.069601	4.438395
2 1	4.677686	.060883	118.53	0.000	4.559867	4.798549
2 2	4.829876	.0415202	183.19	0.000	4.749179	4.911943
3 0	3.275405	.0677092	57.39	0.000	3.14535	3.410838
3 1	4.032353	.0497933	112.92	0.000	3.935931	4.131137
3 2	4.220264	.044343	137.04	0.000	4.134242	4.308076

```

84 . estat ic

```

Akaike's information criterion and Bayesian information criterion

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	2,919	.	-5525.972	9	11069.94	11123.75

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#).

```

85 .
end of do-file

```

```

86 . do "C:\Users\kla86\AppData\Local\Temp\48\STD00000000.tmp"

```



```
91 . logit offer_public i.urbanicity##c.wave, vce(cluster district) or
```

```
Iteration 0: log pseudolikelihood = -1776.5403
Iteration 1: log pseudolikelihood = -1628.2913
Iteration 2: log pseudolikelihood = -1617.1375
Iteration 3: log pseudolikelihood = -1616.1504
Iteration 4: log pseudolikelihood = -1616.1228
Iteration 5: log pseudolikelihood = -1616.1227
```

```
Logistic regression          Number of obs    =      2,919
                             Wald chi2(      5)      =      197.98
                             Prob > chi2          =      0.0000
Log pseudolikelihood = -1616.1227      Pseudo R2      =      0.0903
```

(Std. Err. adjusted for 978 clusters in district)

offer_public	Odds Ratio	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
urbanicity						
2	.7080006	.3127834	-0.78	0.434	.2978423	1.682988
3	.1860624	.077549	-4.03	0.000	.0822027	.4211445
wave	5.604402	2.526123	3.82	0.000	2.316645	13.55811
urbanicity#c.wave						
2	.3342255	.1556399	-2.35	0.019	.1341707	.8325713
3	.2581007	.1167351	-2.99	0.003	.1063661	.6262894
_cons	6.155099	2.523427	4.43	0.000	2.755911	13.74691

```
92 .
```

```
93 . bysort urbanicity: sum perc_black perc_hisp perc_white perc_lep perc_eco
```

```
-> urbanicity = 1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
perc_black	156	.1279404	.1192514	0	.5924765
perc_hispa~c	156	.5381857	.2497	.1483736	.9977801
perc_white	156	.2886599	.2044834	.0013058	.742588
perc_lep	156	.0547626	.0557836	.0019223	.2684467
perc_ecodis	156	.6063806	.1966598	.0981894	.9589393

```
-> urbanicity = 2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
perc_black	726	.0971724	.1357621	0	1
perc_hispa~c	726	.4098766	.2804876	.0467593	1
perc_white	726	.4494184	.2825031	.001601	1
perc_lep	726	.0393661	.0629057	0	1
perc_ecodis	726	.5319674	.2271009	0	1

```
-> urbanicity = 3
```

Variable	Obs	Mean	Std. Dev.	Min	Max
perc_black	2,047	.0663941	.0994768	0	.8301887
perc_hispa~c	2,047	.3566009	.2606274	0	1
perc_white	2,047	.5571345	.2515298	0	1
perc_lep	2,047	.0290904	.0469599	0	1
perc_ecodis	2,047	.5866719	.169516	0	1

```

94 .
95 .
end of do-file

96 . do "C:\Users\kla86\AppData\Local\Temp\48\STD00000000.tmp"

97 . use c_grad_final_long_proportions, replace

98 .
end of do-file

99 . do "C:\Users\kla86\AppData\Local\Temp\48\STD00000000.tmp"

100 . /*Given that some variables are not integers because of the 2.5, we need to rounddown these
> totals*/
101 . replace grad_fhsp_total = int(grad_fhsp_total)
(529 real changes made)

102 . replace grad_total = int(grad_total)
(0 real changes made)

103 . /*After rounding, etc., some districts show more students in FHSP than in the district. Cha
> nge these
> values to 100%*/
104 . replace grad_fhsp_total = grad_total if grad_total < grad_fhsp_total
(52 real changes made)

105 . drop if grad_total == 0
(1 observation deleted)

106 .
107 . /*Create proportions of minority, ecodis and LEP students.*/
108 . gen perc_minority = (grad_black + grad_hispanic) / grad_total

109 . gen perc_black = grad_black / grad_total

110 . gen perc_hispanic = grad_hispanic / grad_total

111 . gen perc_ecodis = grad_eco / grad_total

112 . gen perc_lep = grad_lep / grad_total

113 . foreach x of varlist perc_* {
2. egen m`x' = mean(`x')
3. gen c`x' = `x' - m`x'
4. }

```

```

114 .
115 . gen wave = .
      (1,944 missing values generated)

116 . replace wave = 0 if year == 2015
      (973 real changes made)

117 . replace wave = 1 if year == 2016
      (971 real changes made)

118 .
      end of do-file

119 . do "C:\Users\kla86\AppData\Local\Temp\48\STD00000000.tmp"

120 . glm grad_fhsp_total i.urbanicity if year == 2016 & grad_fhsp_total > 0, f(b grad_fhsp_total
      > ) vce(robust) eform

```

```

Iteration 0: log pseudolikelihood = -205.37865
Iteration 1: log pseudolikelihood = -5.710e-06
Iteration 2: log pseudolikelihood = -5.710e-06

```

```

Generalized linear models          No. of obs    =          571
Optimization      : ML              Residual df    =          568
                                      Scale parameter =           1
Deviance          =    .00001142      (1/df) Deviance =    2.01e-08
Pearson           =    5.71000e-06      (1/df) Pearson  =    1.01e-08

```

```

Variance function: V(u) = u*(1-u/grad_fhsp_total) [Binomial]
Link function      : g(u) = ln(u/(grad_fhsp_total-u)) [Logit]

```

```

Log pseudolikelihood = -5.71000e-06          AIC          =    .0105079
                                      BIC          =   -3605.317

```

grad_fhsp_total	Odds Ratio	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
urbanicity						
2	.618179	.1016065	-2.93	0.003	.4479269	.8531421
3	.3792178	.0583214	-6.30	0.000	.28053	.5126232
_cons	1.62e+17	2.34e+16	274.28	0.000	1.22e+17	2.15e+17

```

121 . //urb n.s.
122 .
      end of do-file

123 . do "C:\Users\kla86\AppData\Local\Temp\48\STD00000000.tmp"

124 . glm grad_disting i.urbanicity if year == 2016 & grad_disting > 0, f(b grad_disting) vce(rob
      > ust) eform

```

```

Iteration 0: log pseudolikelihood = -128.48928
Iteration 1: log pseudolikelihood = -3.770e-06
Iteration 2: log pseudolikelihood = -3.770e-06

```

```

Generalized linear models          No. of obs    =          377
Optimization      : ML              Residual df    =          374
                                      Scale parameter =           1
Deviance          =    7.54000e-06      (1/df) Deviance =    2.02e-08
Pearson           =    3.77000e-06      (1/df) Pearson  =    1.01e-08

```

```

Variance function: V(u) = u*(1-u/grad_disting) [Binomial]
Link function      : g(u) = ln(u/(grad_disting-u)) [Logit]

```

Log pseudolikelihood = **-3.77000e-06**

AIC = **.0159151**
BIC = **-2218.66**

grad_disting	Odds Ratio	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
urbanicity						
2	.6740522	.1433705	-1.85	0.064	.4442663	1.022689
3	.5367298	.105344	-3.17	0.002	.3653342	.7885353
_cons	1.16e+17	2.16e+16	211.32	0.000	8.06e+16	1.67e+17

125 .
end of do-file

126 .