Stata
Statistics/Data Analysis

_____

```
      name:  <unnamed>
       log:  /hdir/0/jhaber/Projects/charter_data/sorting-schools-2019/logs/robust_fil
> tscores_mi5_linear_101019.smcl
  log type:  smcl
 opened on:  18 Oct 2019, 11:56:06
```

```
1 . ** -------------------------------------------------------
2 . ** 3. RUN WITH FILTERED DATA
3 . ** -------------------------------------------------------
4 .
5 . *
6 . * 3A. RE-RUN LINEAR MIXED MODELS USING FILTERED DATA: PRECISE ACADEMIC DATA ONLY
7 . *
8 .
9 . mi xeq: drop if readlevel14 != 1 | mathlevel14 != 1

  m=0 data:
  -> drop if readlevel14 != 1 | mathlevel14 != 1
  (3,814 observations deleted)

  m=1 data:
  -> drop if readlevel14 != 1 | mathlevel14 != 1
  (3,616 observations deleted)

  m=2 data:
  -> drop if readlevel14 != 1 | mathlevel14 != 1
  (3,597 observations deleted)

  m=3 data:
  -> drop if readlevel14 != 1 | mathlevel14 != 1
  (3,600 observations deleted)

  m=4 data:
  -> drop if readlevel14 != 1 | mathlevel14 != 1
  (3,596 observations deleted)

  m=5 data:
  -> drop if readlevel14 != 1 | mathlevel14 != 1
  (3,599 observations deleted)

10.
11. * PT 1:
12. * 0. controls only
13. mi est, dots: mixed inquiry_full_log primary middle high lnage lnstudents urban pctp
  > dfs || cmoname: ,

  Imputations (5):
    ..... done
```

```
  Multiple-imputation estimates          Imputations      =          5
  Mixed-effects ML regression            Number of obs    =      1,982

  Group variable: cmoname                Number of groups =        243
                                         Obs per group:
                                                        min =          1
                                                        avg =        8.2
                                                        max =      1,123
                                         Average RVI      =     0.0000
                                         Largest FMI      =     0.0000
  DF adjustment:   Large sample          DF:      min     =   1.45e+63
                                                  avg     =   4.81e+63
                                                  max     =          .
  Model F test:        Equal FMI         F(   7, 1.9e+66) =       5.60
                                         Prob > F         =     0.0000
```

inquiry_full_log	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
primary	-.0107552	.0061582	-1.75	0.081	-.022825	.0013146
middle	-.0332203	.0090529	-3.67	0.000	-.0509637	-.0154769
high	-.0239121	.0123242	-1.94	0.052	-.0480671	.0002429
lnage	-.0035714	.0035717	-1.00	0.317	-.0105718	.003429
lnstudents	.0134679	.0054313	2.48	0.013	.0028227	.024113
urban	.0015822	.0052418	0.30	0.763	-.0086916	.0118559
pctpdfs	.1330414	.0481201	2.76	0.006	.0387276	.2273551
_cons	.0509707	.0370569	1.38	0.169	-.0216595	.1236009

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
cmoname: Identity				
sd(_cons)	.072932	.0062865	.0615953	.0863552
sd(Residual)	.1061569	.0017814	.1027222	.1097065

14. * 1. school poverty
15. mi est, dots: mixed inquiry_full_log povertyschool primary middle high lnage lnstude
  > nts urban pctpdfs || cmoname: ,

Imputations (**5**):
  ..... done

Multiple-imputation estimates   Imputations   =   5
Mixed-effects ML regression   Number of obs   =   1,982

Group variable: **cmoname**   Number of groups =   243
                                               Obs per group:
                                                       min =   1
                                                       avg =   8.2
                                                       max =   1,123
                                               Average RVI   =   0.0082
                                               Largest FMI   =   0.0644
DF adjustment: **Large sample**   DF: min   =   1,021.28
                                                       avg   = 983,844.51
                                                       max   = 3379160.50
Model F test: **Equal FMI**   F(8,239185.5) =   12.87
                                               Prob > F   =   0.0000

inquiry_full_log	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
povertyschool	-.0006774	.0000877	-7.73	0.000	-.0008495	-.0005054
primary	-.0113867	.0060658	-1.88	0.060	-.0232754	.000502
middle	-.0304697	.0089223	-3.42	0.001	-.047957	-.0129823
high	-.0240901	.0121349	-1.99	0.047	-.0478741	-.0003061
lnage	-.0027247	.0035249	-0.77	0.440	-.0096334	.004184
lnstudents	.0117626	.0053604	2.19	0.028	.0012565	.0222688
urban	.0118437	.0053266	2.22	0.026	.0014038	.0222836
pctpdfs	.1376789	.0474239	2.90	0.004	.0447296	.2306282
_cons	.0955853	.0369873	2.58	0.010	.0230911	.1680795

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
cmoname: Identity				
sd(_cons)	.072436	.0062408	.0611812	.0857612
sd(Residual)	.1044298	.0017585	.1010394	.1079339

```
16. * 2. school race
17. mi est, dots: mixed inquiry_full_log pocschoolprop primary middle high lnage lnstude
  > nts urban pctpdfs || cmoname: ,
```

    Imputations (**5**):
      ..... done

Multiple-imputation estimates	Imputations	=	**5**
Mixed-effects ML regression	Number of obs	=	**1,982**

Group variable: **cmoname**	Number of groups	=	**243**

    Obs per group:

	min =	**1**
	avg =	**8.2**
	max =	**1,123**
Average RVI	=	**0.0000**
Largest FMI	=	**0.0000**

DF adjustment:	**Large sample**	<u>DF</u>: min	=	**7.96e+61**
		avg	=	**2.20e+63**
		max	=	**.**
Model F test:	**Equal FMI**	F(**8, 6.7e+63**)	=	**12.71**
		Prob > F	=	**0.0000**

inquiry_full_log	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
pocschoolprop	-.0733778	.0093795	-7.82	0.000	-.0917612	-.0549943
primary	-.0068642	.0060867	-1.13	0.259	-.0187939	.0050656
middle	-.0253226	.0089737	-2.82	0.005	-.0429107	-.0077344
high	-.0229552	.0121413	-1.89	0.059	-.0467518	.0008414
lnage	-.0039964	.0035186	-1.14	0.256	-.0108927	.0028999
lnstudents	.0124509	.0053514	2.33	0.020	.0019624	.0229394
urban	.017236	.0055386	3.11	0.002	.0063805	.0280915
pctpdfs	.1276522	.0474098	2.69	0.007	.0347306	.2205738
_cons	.1016042	.037069	2.74	0.006	.0289503	.1742581

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
cmoname: Identity				
sd(_cons)	.0711991	.0062157	.0600018	.0844861
sd(Residual)	.1046141	.0017563	.1012277	.1081137

```
18. * 3. school district poverty
19. mi est, dots: mixed inquiry_full_log povertysd primary middle high lnage lnstudents
  > urban pctpdfs || cmoname: ,
```

    Imputations (**5**):
      ..... done

Multiple-imputation estimates	Imputations	=	**5**
Mixed-effects ML regression	Number of obs	=	**1,982**

Group variable: **cmoname**	Number of groups	=	**243**

    Obs per group:

	min =	**1**
	avg =	**8.2**
	max =	**1,123**
Average RVI	=	**0.0007**
Largest FMI	=	**0.0069**

DF adjustment:	**Large sample**	DF: min	=	**84,839.21**
		avg	=	**4.04e+11**
		max	=	**2.22e+12**
Model F test:	**Equal FMI**	F(**8, 3.2e+07**)	=	**8.30**
		Prob > F	=	**0.0000**

inquiry_full_log	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
povertysd	-.1906086	.0368116	-5.18	0.000	-.262759	-.1184582
primary	-.011304	.0061152	-1.85	0.065	-.0232896	.0006816
middle	-.0340242	.0089937	-3.78	0.000	-.0516517	-.0163968
high	-.0240511	.0122352	-1.97	0.049	-.0480316	-.0000705
lnage	-.0033001	.0035472	-0.93	0.352	-.0102524	.0036522
lnstudents	.0124316	.0053971	2.30	0.021	.0018534	.0230097
urban	.0118493	.0055666	2.13	0.033	.0009389	.0227597
pctpdfs	.136865	.0477764	2.86	0.004	.043225	.230505
_cons	.0818923	.0372815	2.20	0.028	.008822	.1549626

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
cmoname: Identity				
sd(_cons)	.0739613	.0062257	.0627126	.0872277
sd(Residual)	.1053014	.0017665	.1018954	.1088213

20. * 4. school district race
21. mi est, dots: mixed inquiry_full_log pocsd primary middle high lnage lnstudents urba
> n pctpdfs || cmoname: ,

Imputations (**5**):
  ..... done

Multiple-imputation estimates   Imputations   =   **5**
Mixed-effects ML regression   Number of obs   =   **1,982**

Group variable: **cmoname**   Number of groups =   **243**
                                       Obs per group:
                                                    min =   **1**
                                                    avg =   **8.2**
                                                    max =   **1,123**
                                       Average RVI   =   **0.0007**
                                       Largest FMI   =   **0.0073**
DF adjustment: **Large sample**   DF: min   = **75,192.01**
                                                avg   = **4.00e+10**
                                                max   = **2.96e+11**
Model F test: **Equal FMI**   F(**8, 2.9e+07**) =   **6.49**
                                       Prob > F   =   **0.0000**

inquiry_full_log	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
pocsd	-.050975	.014493	-3.52	0.000	-.0793813	-.0225687
primary	-.009681	.0061477	-1.57	0.115	-.0217303	.0023683
middle	-.0307102	.0090535	-3.39	0.001	-.0484548	-.0129657
high	-.0250553	.0122925	-2.04	0.042	-.0491482	-.0009625
lnage	-.003813	.0035617	-1.07	0.284	-.0107938	.0031677
lnstudents	.0145341	.0054229	2.68	0.007	.0039055	.0251627
urban	.0095697	.0057015	1.68	0.093	-.001605	.0207445
pctpdfs	.1291087	.0479946	2.69	0.007	.0350411	.2231763
_cons	.0588542	.03701	1.59	0.112	-.0136839	.1313924

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
cmoname: Identity				
sd(_cons)	.0720199	.0062827	.0607013	.0854492
sd(Residual)	.1058886	.0017775	.1024614	.1094305

```
22.
23. * PT 2:
24. * 0. controls only
25. mi est, dots: mixed povertyschoolprop primary middle high lnage lnstudents urban ||
  > geodistrict: ,

  Imputations (5):
    ..... done
```

Multiple-imputation estimates	Imputations	=	5
Mixed-effects ML regression	Number of obs	=	1,982

Group variable: **geodistrict**		Number of groups	=	660
		Obs per group:		
		min =		1
		avg =		3.0
		max =		121
		Average RVI	=	0.0513
		Largest FMI	=	0.1061
DF adjustment:	**Large sample**	DF: min	=	388.56
		avg	=	2,604.97
		max	=	5,950.42
Model F test:	**Equal FMI**	F(6, 9351.5)	=	10.04
		Prob > F	=	0.0000

povertyschoolprop	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
primary	-.0067693	.0143678	-0.47	0.638	-.0349449	.0214064
middle	.0334777	.0208775	1.60	0.109	-.0074573	.0744128
high	.0014881	.027765	0.05	0.957	-.0529536	.0559299
lnage	-.0139617	.0082558	-1.69	0.091	-.0301752	.0022519
lnstudents	-.0378257	.0125338	-3.02	0.003	-.0624051	-.0132462
urban	.0987909	.0170533	5.79	0.000	.0653604	.1322215
_cons	.7246512	.08506	8.52	0.000	.5578455	.8914569

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
geodistrict: Identity				
sd(_cons)	.2048125	.0097291	.1865993	.2248034
sd(Residual)	.2215537	.0044629	.2129508	.2305041

```
26. * 1. IBL
27. mi est, dots: mixed povertyschoolprop inquiry_full_log primary middle high lnage lns
  > tudents urban pctpdfs || geodistrict: ,

  Imputations (5):
    ..... done
```

Multiple-imputation estimates	Imputations	=	5
Mixed-effects ML regression	Number of obs	=	1,982

Group variable: **geodistrict**		Number of groups	=	660
		Obs per group:		
		min =		1
		avg =		3.0
		max =		121
		Average RVI	=	0.0653
		Largest FMI	=	0.1459
DF adjustment:	**Large sample**	DF: min	=	210.62
		avg	=	2,034.31
		max	=	5,896.41
Model F test:	**Equal FMI**	F(8, 7390.0)	=	12.43
		Prob > F	=	0.0000

povertyschoolprop	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
inquiry_full_log	-.3153741	.0528422	-5.97	0.000	-.4195414	-.2112069
primary	-.0064143	.0142232	-0.45	0.652	-.0343067	.0214782
middle	.0268155	.0207671	1.29	0.197	-.0139094	.0675404
high	-.0040723	.0275392	-0.15	0.882	-.0580758	.0499312
lnage	-.0143691	.0081678	-1.76	0.079	-.0304092	.001671
lnstudents	-.0308628	.0124377	-2.48	0.013	-.0552524	-.0064732
urban	.1015134	.0168886	6.01	0.000	.0684056	.1346213
pctpdfs	.0705195	.1193092	0.59	0.555	-.1635553	.3045944
_cons	.7281073	.0842544	8.64	0.000	.562874	.8933405

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
geodistrict: Identity				
sd(_cons)	.2029547	.0096822	.184831	.2228555
sd(Residual)	.2191996	.0044813	.2105494	.2282052

28. * 2. academic performance
29. mi est, dots: mixed povertyschoolprop readall14 mathall14 primary middle high lnage
> lnstudents urban readlevel14 mathlevel14 || geodistrict: ,

Imputations (**5**):
  ..... done

Multiple-imputation estimates   Imputations   =   **5**
Mixed-effects ML regression   Number of obs =   **1,982**

Group variable: **geodistrict**   Number of groups =   **660**
                                       Obs per group:
                                                      min =   **1**
                                                      avg =   **3.0**
                                                      max =   **121**
                                       Average RVI   =   **0.1299**
                                       Largest FMI   =   **0.4171**
DF adjustment: **Large sample**   DF: min   =   **28.13**
                                              avg   =   **965.10**
                                              max   = **1,778.00**
Model F test: **Equal FMI**   F(**8, 3562.2**) =   **77.98**
                                       Prob > F   =   **0.0000**

povertyschoolprop	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
readall14	-.7923956	.0665144	-11.91	0.000	-.9231464	-.6616448
mathall14	.1089926	.0627691	1.74	0.084	-.0145389	.232524
primary	-.0202277	.0127532	-1.59	0.113	-.0452617	.0048062
middle	.022511	.0181483	1.24	0.215	-.0130881	.0581101
high	.0204863	.0243078	0.84	0.399	-.0271886	.0681611
lnage	.0014761	.0072575	0.20	0.839	-.0127916	.0157438
lnstudents	-.0249719	.0109013	-2.29	0.022	-.0463555	-.0035884
urban	.0770312	.0155869	4.94	0.000	.0464585	.1076038
readlevel14	0	(omitted)				
mathlevel14	0	(omitted)				
_cons	1.000696	.0748899	13.36	0.000	.8537852	1.147607

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
geodistrict: Identity				
sd(_cons)	.2074866	.0089108	.1907163	.2257316
sd(Residual)	.1872307	.0045596	.1781217	.1968055

```
30. * 3. fully specified
31. mi est, dots: mixed povertyschoolprop inquiry_full_log readall14 mathall14 primary m
  > iddle high lnage lnstudents urban pctpdfs readlevel14 mathlevel14 || geodistrict: ,
```

Imputations (**5**):
    ..... done

Multiple-imputation estimates					Imputations	=	**5**
Mixed-effects ML regression					Number of obs	=	**1,982**

Group variable: **geodistrict**

	Number of groups	=	**660**
	Obs per group:		
	min =		**1**
	avg =		**3.0**
	max =		**121**
	Average RVI	=	**0.1357**
	Largest FMI	=	**0.4328**

DF adjustment: **Large sample**

DF:	min =	**26.16**
	avg =	**867.72**
	max =	**1,748.96**

Model F test: **Equal FMI**

F(**10, 3797.2**)	=	**65.06**
Prob > F	=	**0.0000**

povertyschoolprop	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
inquiry_full_log	-.2214784	.0471881	-4.69	0.000	-.3148683	-.1280885
readall14	-.7591745	.0662044	-11.47	0.000	-.8892737	-.6290754
mathall14	.0866459	.0622996	1.39	0.165	-.035911	.2092029
primary	-.0191334	.0126608	-1.51	0.131	-.0439851	.0057183
middle	.018793	.0181153	1.04	0.300	-.0167502	.0543361
high	.0150354	.0242235	0.62	0.535	-.0324814	.0625522
lnage	.0008874	.0071989	0.12	0.902	-.0132628	.0150377
lnstudents	-.0203708	.0108402	-1.88	0.060	-.0416318	.0008903
urban	.0799573	.0154947	5.16	0.000	.049566	.1103486
pctpdfs	.0046709	.1054794	0.04	0.965	-.2023127	.2116545
readlevel14	0	(omitted)				
mathlevel14	0	(omitted)				
_cons	.99754	.0744191	13.40	0.000	.8515476	1.143532

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
geodistrict: Identity				
sd(_cons)	.2064873	.008912	.1897134	.2247444
sd(Residual)	.1858615	.0045826	.1766793	.1955209

```
32.
33. * PT 3:
34. * 0. controls only
35. mi est, dots: mixed pocschoolprop primary middle high lnage lnstudents urban || stat
  > e: || geodistrict: ,
```

Imputations (**5**):
    ..... done

Multiple-imputation estimates		Imputations	=	**5**
Mixed-effects ML regression		Number of obs	=	**1,982**

Group Variable	No. of Groups	Observations per Group		
		Minimum	Average	Maximum
state	**36**	**1**	**55.1**	**415**
geodistrict	**660**	**1**	**3.0**	**121**

```
                                              Average RVI      =      0.0000
                                              Largest FMI      =      0.0000
DF adjustment:    Large sample                DF:     min      =           .
                                                      avg      =           .
                                                      max      =           .
Model F test:     Equal FMI                   F(    6,      .) =       16.49
                                              Prob > F         =      0.0000
```

pocschoolprop	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
primary	.0313046	.0120324	2.60	0.009	.0077215	.0548876
middle	.0635113	.0174964	3.63	0.000	.029219	.0978036
high	.0099473	.0233267	0.43	0.670	-.0357722	.0556669
lnage	-.0233458	.0068081	-3.43	0.001	-.0366895	-.0100021
lnstudents	-.0290584	.0104383	-2.78	0.005	-.0495171	-.0085996
urban	.0989649	.0148576	6.66	0.000	.0698445	.1280853
_cons	.7409372	.0761422	9.73	0.000	.5917013	.8901731

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
state: Identity				
sd(_cons)	.1582177	.0247165	.1164881	.2148961
geodistrict: Identity				
sd(_cons)	.1839148	.0088123	.1674292	.2020237
sd(Residual)	.1857085	.0036138	.178759	.1929282

```
36. * 1. IBL
37. mi est, dots: mixed pocschoolprop inquiry_full_log primary middle high lnage lnstude
  > nts urban pctpdfs || state: || geodistrict: ,

   Imputations (5):
     ..... done

   Multiple-imputation estimates              Imputations      =           5
   Mixed-effects ML regression                Number of obs    =       1,982
```

Group Variable	No. of Groups	Observations per Group		
		Minimum	Average	Maximum
state	**36**	**1**	**55.1**	**415**
geodistrict	**660**	**1**	**3.0**	**121**

```
                                              Average RVI      =      0.0000
                                              Largest FMI      =      0.0000
DF adjustment:    Large sample                DF:     min      =           .
                                                      avg      =           .
                                                      max      =           .
Model F test:     Equal FMI                   F(    8,      .) =       18.52
                                              Prob > F         =      0.0000
```

pocschoolprop	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
inquiry_full_log	-.2855527	.0417822	-6.83	0.000	-.3674443	-.2036611
primary	.0322012	.0118958	2.71	0.007	.0088859	.0555165
middle	.058531	.01732	3.38	0.001	.0245845	.0924776
high	.0066491	.0230685	0.29	0.773	-.0385642	.0518625
lnage	-.024124	.006732	-3.58	0.000	-.0373184	-.0109296
lnstudents	-.0222645	.010365	-2.15	0.032	-.0425795	-.0019494
urban	.1024793	.0146875	6.98	0.000	.0736922	.1312664
pctpdfs	.0747232	.0989067	0.76	0.450	-.1191304	.2685768
_cons	.7418043	.0754472	9.83	0.000	.5939304	.8896781

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
state: Identity				
sd(_cons)	**.1594119**	**.0249132**	**.1173528**	**.2165449**
geodistrict: Identity				
sd(_cons)	**.1811907**	**.0087355**	**.1648534**	**.1991469**
sd(Residual)	**.1836374**	**.003577**	**.1767587**	**.1907838**

38. * 2. academic performance
39. mi est, dots: mixed pocschoolprop readall14 mathall14 primary middle high lnage lnst
> udents urban readlevel14 mathlevel14 || state: || geodistrict: ,

Imputations (**5**):
  ..... done

Multiple-imputation estimates   Imputations   =   **5**
Mixed-effects ML regression   Number of obs   =   **1,982**

Group Variable	No. of Groups	Minimum	Average	Maximum
state	**36**	**1**	**55.1**	**415**
geodistrict	**660**	**1**	**3.0**	**121**

Average RVI   =   **0.0000**
Largest FMI   =   **0.0000**
DF adjustment: **Large sample**   DF: min = **2.65e+59**
                                               avg = **2.75e+59**
                                             max = **.**
Model F test: **Equal FMI**   F(8, .) = **91.77**
                                         Prob > F = **0.0000**

pocschoolprop	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
readall14	**-.7386733**	**.0571565**	**-12.92**	**0.000**	**-.850698**	**-.6266486**
mathall14	**.1126231**	**.0543693**	**2.07**	**0.038**	**.0060612**	**.2191851**
primary	**.0221022**	**.0106292**	**2.08**	**0.038**	**.0012693**	**.0429351**
middle	**.05649**	**.015307**	**3.69**	**0.000**	**.0264888**	**.0864912**
high	**.0368704**	**.0207335**	**1.78**	**0.075**	**-.0037665**	**.0775073**
lnage	**-.0056296**	**.0059961**	**-0.94**	**0.348**	**-.0173818**	**.0061226**
lnstudents	**-.0165127**	**.0091358**	**-1.81**	**0.071**	**-.0344186**	**.0013933**
urban	**.0749118**	**.0130171**	**5.75**	**0.000**	**.0493987**	**.1004249**
readlevel14	**0**	(omitted)				
mathlevel14	**0**	(omitted)				
_cons	**.9673004**	**.0689884**	**14.02**	**0.000**	**.8320855**	**1.102515**

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
state: Identity				
sd(_cons)	**.1660682**	**.0233201**	**.1261121**	**.2186836**
geodistrict: Identity				
sd(_cons)	**.1596755**	**.007884**	**.1449473**	**.1759002**
sd(Residual)	**.1623585**	**.0031894**	**.1562261**	**.1687316**

```
40. * 3. fully specified
41. mi est, dots: mixed pocschoolprop inquiry_full_log readall14 mathall14 primary middl
  > e high lnage lnstudents urban pctpdfs readlevel14 mathlevel14 || state: || geodistri
  > ct: ,

   Imputations (5):
     ..... done
```

Multiple-imputation estimates   Imputations   =   5
Mixed-effects ML regression   Number of obs   =   1,982

Group Variable	No. of Groups	Observations per Group Minimum	Average	Maximum
state	36	1	55.1	415
geodistrict	660	1	3.0	121

```
                                         Average RVI      =    0.0000
                                         Largest FMI      =    0.0000
DF adjustment:   Large sample            DF:      min     =  4.29e+57
                                                  avg     =  1.84e+59
                                                  max     =       .
Model F test:    Equal FMI               F(  10,       .) =    77.34
                                         Prob > F         =    0.0000
```

pocschoolprop	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
inquiry_full_log	-.1982082	.0369044	-5.37	0.000	-.2705395	-.125877
readall14	-.7061226	.0570248	-12.38	0.000	-.8178891	-.5943561
mathall14	.0920814	.0540847	1.70	0.089	-.0139227	.1980854
primary	.0232784	.0105497	2.21	0.027	.0026013	.0439554
middle	.053327	.015204	3.51	0.000	.0235276	.0831264
high	.0328244	.0205823	1.59	0.111	-.0075162	.0731649
lnage	-.0065396	.0059531	-1.10	0.272	-.0182074	.0051282
lnstudents	-.0121789	.0091019	-1.34	0.181	-.0300183	.0056606
urban	.0777842	.0129474	6.01	0.000	.0524078	.1031607
pctpdfs	.0350484	.0867951	0.40	0.686	-.1350668	.2051636
readlevel14	0	(omitted)				
mathlevel14	0	(omitted)				
_cons	.9628093	.0685583	14.04	0.000	.8284374	1.097181

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
state: Identity				
sd(_cons)	.1661116	.0234301	.1259904	.2190092
geodistrict: Identity				
sd(_cons)	.1592744	.0078402	.1446258	.1754067
sd(Residual)	.1609814	.0031643	.1548974	.1673043

```
42.
43. log close
       name:  <unnamed>
        log:  /hdir/0/jhaber/Projects/charter_data/sorting-schools-2019/logs/robust_fil
  > tscores_mi5_linear_101019.smcl
   log type:  smcl
  closed on:  18 Oct 2019, 11:58:05
```