STATA
Statistics/Data Analysis

_____

```
      name:  <unnamed>
       log:  /hdir/0/jhaber/Projects/charter_data/sorting-schools-2019/logs/robust_fil
> tibl_mi5_linear_101019.smcl
  log type:  smcl
 opened on:  18 Oct 2019, 12:05:17
```

```
1 . *
2 . * 3B. RE-RUN LINEAR MIXED MODELS USING FILTERED DATA: REMOVING HUGE WEBSITE OUTLIERS
3 . *
4 .
5 . mi xeq: drop if inquiry_full_count > 10000

  m=0 data:
  -> drop if inquiry_full_count > 10000
  (2 observations deleted)

  m=1 data:
  -> drop if inquiry_full_count > 10000
  (2 observations deleted)

  m=2 data:
  -> drop if inquiry_full_count > 10000
  (2 observations deleted)

  m=3 data:
  -> drop if inquiry_full_count > 10000
  (2 observations deleted)

  m=4 data:
  -> drop if inquiry_full_count > 10000
  (2 observations deleted)

  m=5 data:
  -> drop if inquiry_full_count > 10000
  (2 observations deleted)

6 .
7 . * PT 1:
8 . * 0. controls only
9 . 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   =     5,782

  Group variable: cmoname                  Number of groups =       377
                                           Obs per group:
                                                        min =         1
                                                        avg =      15.3
                                                        max =     3,735
                                           Average RVI     =    0.0000
                                           Largest FMI     =    0.0000
  DF adjustment:   Large sample            DF:     min     =         .
                                                   avg     =         .
                                                   max     =         .
  Model F test:        Equal FMI           F(    7,      .) =     11.68
                                           Prob > F        =    0.0000
```

inquiry_full_log	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
primary	.0014208	.0039309	0.36	0.718	-.0062835	.0091252
middle	-.0169357	.0058751	-2.88	0.004	-.0284506	-.0054208
high	-.013106	.0047089	-2.78	0.005	-.0223351	-.0038768
lnage	-.0036657	.0016232	-2.26	0.024	-.0068472	-.0004843
lnstudents	.0096262	.0016952	5.68	0.000	.0063036	.0129487
urban	.0004637	.0030814	0.15	0.880	-.0055757	.0065031
pctpdfs	.115662	.0317715	3.64	0.000	.053391	.177933
_cons	.0624877	.0115932	5.39	0.000	.0397655	.0852099

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
cmoname: Identity				
sd(_cons)	.076517	.0043073	.068524	.0854424
sd(Residual)	.1076522	.0010317	.1056489	.1096934

```
10. * 1. school poverty
11. 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	=	5,782

Group variable: **cmoname**	Number of groups	=	377
	Obs per group:		
	min =		1
	avg =		15.3
	max =		3,735
	Average RVI	=	0.0099
	Largest FMI	=	0.0803
DF adjustment: **Large sample**	DF: min	=	666.02
	avg	=	1338059.40
	max	=	9206127.75
Model F test: **Equal FMI**	F(8,153265.7)	=	30.24
	Prob > F	=	0.0000

inquiry_full_log	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
povertyschool	-.0006181	.0000507	-12.19	0.000	-.0007177	-.0005185
primary	.0007688	.0038806	0.20	0.843	-.006837	.0083747
middle	-.0148142	.0058005	-2.55	0.011	-.0261831	-.0034454
high	-.0133243	.0046495	-2.87	0.004	-.0224371	-.0042115
lnage	-.0033981	.0016024	-2.12	0.034	-.0065388	-.0002574
lnstudents	.0084193	.0016774	5.02	0.000	.0051316	.011707
urban	.0084679	.003116	2.72	0.007	.0023605	.0145754
pctpdfs	.1125769	.0313971	3.59	0.000	.0510394	.1741144
_cons	.1026824	.011911	8.62	0.000	.0793372	.1260276

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
cmoname: Identity				
sd(_cons)	.0770838	.0042916	.0691151	.0859712
sd(Residual)	.1060899	.0010194	.1041106	.1081068

```
12. * 2. school race
13. 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 | = | **5,782** |

Group variable: **cmoname**

	Number of groups	=	**377**
	Obs per group:		
	min =		**1**
	avg =		**15.3**
	max =		**3,735**
	Average RVI	=	**0.0000**
	Largest FMI	=	**0.0000**
DF adjustment: **Large sample**	<u>DF</u>: min	=	**1.58e+60**
	avg	=	**2.37e+61**
	max	=	**.**
Model F test: **Equal FMI**	F(**8, 3.4e+62**)	=	**33.99**
	Prob > F	=	**0.0000**

inquiry_full_log	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
pocschoolprop	**-.0735417**	**.0053706**	**-13.69**	**0.000**	**-.0840678**	**-.0630155**
primary	**.006617**	**.003887**	**1.70**	**0.089**	**-.0010013**	**.0142354**
middle	**-.0083454**	**.0058156**	**-1.43**	**0.151**	**-.0197438**	**.003053**
high	**-.0075412**	**.0046519**	**-1.62**	**0.105**	**-.0166587**	**.0015764**
lnage	**-.0057802**	**.0016049**	**-3.60**	**0.000**	**-.0089258**	**-.0026347**
lnstudents	**.0129052**	**.0016855**	**7.66**	**0.000**	**.0096018**	**.0162086**
urban	**.0188113**	**.0033152**	**5.67**	**0.000**	**.0123136**	**.0253089**
pctpdfs	**.1144227**	**.0312671**	**3.66**	**0.000**	**.0531403**	**.1757051**
_cons	**.0872679**	**.0115577**	**7.55**	**0.000**	**.0646151**	**.1099206**

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
cmoname: Identity				
sd(_cons)	**.0756316**	**.0042534**	**.0677382**	**.0844449**
sd(Residual)	**.1059288**	**.0010153**	**.1039574**	**.1079376**

```
14. * 3. school district poverty
15. 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 | = | **5,782** |

Group variable: **cmoname**

	Number of groups	=	**377**
	Obs per group:		
	min =		**1**
	avg =		**15.3**
	max =		**3,735**
	Average RVI	=	**0.0005**
	Largest FMI	=	**0.0041**
DF adjustment: **Large sample**	DF: min	=	**242,495.21**
	avg	=	**1.41e+09**
	max	=	**6.69e+09**
Model F test: **Equal FMI**	F(**8, 7.6e+07**)	=	**21.78**
	Prob > F	=	**0.0000**

inquiry_full_log	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
povertysd	-.2099805	.0220083	-9.54	0.000	-.2531161	-.1668448
primary	.000972	.0039	0.25	0.803	-.0066718	.0086158
middle	-.0175813	.0058288	-3.02	0.003	-.0290054	-.0061571
high	-.0122416	.0046724	-2.62	0.009	-.0213994	-.0030838
lnage	-.0034836	.0016106	-2.16	0.031	-.0066403	-.0003268
lnstudents	.0099901	.0016823	5.94	0.000	.0066929	.0132874
urban	.0115367	.0032695	3.53	0.000	.0051286	.0179447
pctpdfs	.113554	.0315191	3.60	0.000	.0517778	.1753302
_cons	.0867546	.0117995	7.35	0.000	.063628	.1098811

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
cmoname: Identity				
sd(_cons)	.0770462	.0042864	.0690868	.0859226
sd(Residual)	.1067459	.001023	.1047596	.1087698

```
16. * 4. school district race
17. 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   =   5,782

Group variable: **cmoname**   Number of groups =   377
                                             Obs per group:
                                                         min =   1
                                                         avg =   15.3
                                                         max =   3,735
                                             Average RVI   =   0.0003
                                             Largest FMI   =   0.0031
DF adjustment: **Large sample**   DF: min   = 417,797.97
                                                     avg   =   1.91e+10
                                                     max   =   7.78e+10
Model F test: **Equal FMI**   F(8, **1.5e+08**) =   11.95
                                             Prob > F   =   0.0000

inquiry_full_log	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
pocsd	-.0320088	.0086572	-3.70	0.000	-.0489766	-.0150411
primary	.0022392	.0039325	0.57	0.569	-.0054684	.0099468
middle	-.0154744	.0058816	-2.63	0.009	-.0270021	-.0039468
high	-.0125658	.0047056	-2.67	0.008	-.0217887	-.0033429
lnage	-.0041374	.0016263	-2.54	0.011	-.007325	-.0009498
lnstudents	.0106943	.0017177	6.23	0.000	.0073276	.014061
urban	.005203	.0033342	1.56	0.119	-.0013319	.0117378
pctpdfs	.1142222	.031737	3.60	0.000	.0520189	.1764255
_cons	.0657162	.0116107	5.66	0.000	.0429597	.0884728

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
cmoname: Identity				
sd(_cons)	.076332	.0043059	.0683423	.0852557
sd(Residual)	.1075303	.0010306	.1055291	.1095693

```
 18.
 19. * PT 2:
 20. * 0. controls only
 21. 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	=	**5,782**
Group variable: **geodistrict**	Number of groups	=	**1,481**
	Obs per group:		
	min =	**1**
	avg =	**3.9**
	max =	**251**
	Average RVI	=	**0.0675**
	Largest FMI	=	**0.1353**
DF adjustment: **Large sample**	DF: min	=	**243.37**
	avg	=	**3,182.55**
	max	=	**13,333.54**
Model F test: **Equal FMI**	F(**6, 3278.0**)	=	**10.99**
	Prob > F	=	**0.0000**

povertyschoolprop	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
primary	-.0046992	.0095651	-0.49	0.623	-.0234795	.014081
middle	.0323756	.0140665	2.30	0.022	.0047748	.0599763
high	-.0094568	.0114294	-0.83	0.408	-.0319098	.0129962
lnage	.0014497	.0040025	0.36	0.717	-.0064079	.0093073
lnstudents	-.0169852	.0044082	-3.85	0.000	-.0256684	-.0083021
urban	.0695266	.0108721	6.39	0.000	.0482152	.0908381
_cons	.5704851	.026189	21.78	0.000	.51902	.6219501

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
geodistrict: Identity				
sd(_cons)	.1900764	.0064047	.1779279	.2030543
sd(Residual)	.2390775	.0026042	.234023	.2442413

```
 22. * 1. IBL
 23. 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	=	**5,782**
Group variable: **geodistrict**	Number of groups	=	**1,481**
	Obs per group:		
	min =	**1**
	avg =	**3.9**
	max =	**251**
	Average RVI	=	**0.0807**
	Largest FMI	=	**0.1866**
DF adjustment: **Large sample**	DF: min	=	**131.56**
	avg	=	**2,573.35**
	max	=	**12,210.99**
Model F test: **Equal FMI**	F(**8, 3354.3**)	=	**19.98**
	Prob > F	=	**0.0000**

povertyschoolprop	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
inquiry_full_log	-.2997598	.0309707	-9.68	0.000	-.3605688	-.2389508
primary	-.0034917	.0094935	-0.37	0.713	-.0221318	.0151484
middle	.0285961	.0140113	2.04	0.042	.0010983	.0560938
high	-.0119526	.0113513	-1.05	0.293	-.0342535	.0103483
lnage	.0005526	.0039809	0.14	0.890	-.0072641	.0083692
lnstudents	-.013423	.0044098	-3.04	0.003	-.0221159	-.0047302
urban	.0717768	.0107491	6.68	0.000	.0507064	.0928472
pctpdfs	.064273	.0837196	0.77	0.444	-.1013377	.2298838
_cons	.5931248	.025965	22.84	0.000	.5421193	.6441302

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
geodistrict: Identity				
sd(_cons)	.1855023	.0063379	.1734858	.1983511
sd(Residual)	.2375901	.0025733	.2325968	.2426907

```
24. * 2. academic performance
25. 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	=	5,782
Group variable: **geodistrict**		Number of groups	=	1,481
		Obs per group:		
		min =		1
		avg =		3.9
		max =		251
		Average RVI	=	0.2168
		Largest FMI	=	0.3669
DF adjustment: **Large sample**		DF: min	=	36.13
		avg	=	929.73
		max	=	6,999.31
Model F test: **Equal FMI**		F(10, 808.3)	=	90.89
		Prob > F	=	0.0000

povertyschoolprop	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
readall14	-.441271	.0283747	-15.55	0.000	-.4977396	-.3848024
mathall14	-.0669782	.0302286	-2.22	0.033	-.1282773	-.0056791
primary	.0029693	.0088408	0.34	0.737	-.014383	.0203217
middle	.0395626	.0130513	3.03	0.002	.0139625	.0651627
high	.0035954	.0119084	0.30	0.764	-.0202402	.0274309
lnage	.0083948	.0039492	2.13	0.036	.0005706	.0162191
lnstudents	.0002115	.0050767	0.04	0.967	-.0098979	.0103209
urban	.0637911	.0102164	6.24	0.000	.0437432	.083839
readlevel14	-.0006152	.0008488	-0.72	0.469	-.0022822	.0010517
mathlevel14	.0002801	.0008302	0.34	0.736	-.0013513	.0019114
_cons	.7098757	.0345972	20.52	0.000	.6397892	.7799621

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
geodistrict: Identity				
sd(_cons)	.1736447	.0057776	.1626803	.185348
sd(Residual)	.2200421	.0025137	.2151371	.2250589

```
26. * 3. fully specified
27. 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   =   5,782

Group variable: **geodistrict**   Number of groups =   1,481
                                             Obs per group:
                                                         min =   1
                                                         avg =   3.9
                                                         max =   251
                                             Average RVI   =   0.2115
                                             Largest FMI   =   0.3738
DF adjustment: **Large sample**   DF: min =   34.83
                                                     avg =   872.10
                                                     max =   7,697.76
Model F test: **Equal FMI**   F(12, 1070.4)   =   81.00
                                             Prob > F   =   0.0000

povertyschoolprop	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
inquiry_full_log	-.207634	.0295999	-7.01	0.000	-.265919	-.1493491
readall14	-.4215592	.0286002	-14.74	0.000	-.4785554	-.364563
mathall14	-.0760776	.0302733	-2.51	0.017	-.1375461	-.014609
primary	.0039346	.0088172	0.45	0.656	-.013373	.0212423
middle	.0366874	.0130256	2.82	0.005	.0111362	.0622387
high	.0017468	.0118552	0.15	0.883	-.021978	.0254717
lnage	.0074962	.0039374	1.90	0.060	-.0003059	.0152982
lnstudents	.0019875	.0051154	0.39	0.699	-.0082239	.0121988
urban	.0656564	.0101399	6.48	0.000	.045759	.0855537
pctpdfs	.0524832	.078801	0.67	0.507	-.1039647	.2089311
readlevel14	-.000469	.0008508	-0.55	0.582	-.0021408	.0012027
mathlevel14	.00009	.0008211	0.11	0.913	-.0015222	.0017022
_cons	.7238504	.0342995	21.10	0.000	.6544853	.7932155

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
geodistrict: Identity				
sd(_cons)	.1704457	.0057377	.1595612	.1820726
sd(Residual)	.2194481	.002478	.2146201	.2243847

```
28.
29. * PT 3:
30. * 0. controls only
31. 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   =   5,782

Group Variable	No. of Groups	Observations per Group		
		Minimum	Average	Maximum
state	43	2	134.5	1,054
geodistrict	1,492	1	3.9	251

```
                                          Average RVI      =     0.0000
                                          Largest FMI      =     0.0000
DF adjustment:     Large sample           DF:     min      =   9.89e+54
                                                  avg      =   2.11e+59
                                                  max      =        .
Model F test:      Equal FMI              F(   6, 5.2e+61) =      39.02
                                          Prob > F         =     0.0000
```

pocschoolprop	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
primary	.0447834	.0072453	6.18	0.000	.030583	.0589839
middle	.07038	.0106594	6.60	0.000	.0494879	.091272
high	.0565953	.0086055	6.58	0.000	.0397289	.0734617
lnage	-.0159265	.0030611	-5.20	0.000	-.021926	-.0099269
lnstudents	.0047704	.0033672	1.42	0.157	-.0018292	.01137
urban	.107379	.0091921	11.68	0.000	.0893628	.1253951
_cons	.4321475	.0352811	12.25	0.000	.3629978	.5012972

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
state: Identity				
sd(_cons)	.1744768	.0227591	.1351154	.2253047
geodistrict: Identity				
sd(_cons)	.2001161	.0056404	.1893609	.2114822
sd(Residual)	.1823402	.0019662	.178527	.1862349

```
32. * 1. IBL
33. 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     =      5,782
```

Group Variable	No. of Groups	Observations per Group		
		Minimum	Average	Maximum
state	**43**	**2**	**134.5**	**1,054**
geodistrict	**1,492**	**1**	**3.9**	**251**

```
                                          Average RVI      =     0.0000
                                          Largest FMI      =     0.0000
DF adjustment:     Large sample           DF:     min      =   9.93e+54
                                                  avg      =   9.25e+58
                                                  max      =        .
Model F test:      Equal FMI              F(   8,       .) =      49.67
                                          Prob > F         =     0.0000
```

pocschoolprop	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
inquiry_full_log	-.2935465	.023341	-12.58	0.000	-.339294	-.2477991
primary	.045575	.0071412	6.38	0.000	.0315784	.0595716
middle	.0662904	.0105104	6.31	0.000	.0456903	.0868904
high	.0541844	.0084831	6.39	0.000	.0375579	.070811
lnage	-.0166572	.0030177	-5.52	0.000	-.0225719	-.0107425
lnstudents	.0080898	.0033314	2.43	0.015	.0015604	.0146192
urban	.1096119	.0090808	12.07	0.000	.0918138	.12741
pctpdfs	.1043556	.060157	1.73	0.083	-.0135499	.222261
_cons	.4565351	.0348741	13.09	0.000	.3881831	.524887

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
state: Identity				
sd(_cons)	.1721472	.0224813	.1332719	.2223623
geodistrict: Identity				
sd(_cons)	.1992303	.0055975	.188556	.2105088
sd(Residual)	.1795483	.0019382	.1757893	.1833876

34. * 2. academic performance
35. 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    =        5,782
```

	No. of	Observations per Group		
Group Variable	Groups	Minimum	Average	Maximum
state	**43**	**2**	**134.5**	**1,054**
geodistrict	**1,492**	**1**	**3.9**	**251**

```
                                          Average RVI      =       0.0993
                                          Largest FMI      =       0.3269
DF adjustment:      Large sample           DF:    min       =        45.14
                                                 avg       =   101,618.01
                                                 max       =  607,120.57
Model F test:       Equal FMI              F(  10,  2282.2) =       106.89
                                          Prob > F         =       0.0000
```

pocschoolprop	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
readall14	-.3428402	.0206077	-16.64	0.000	-.3832827	-.3023976
mathall14	-.0486795	.0223289	-2.18	0.032	-.0929925	-.0043666
primary	.0516206	.0067667	7.63	0.000	.0383581	.0648831
middle	.0791064	.0100025	7.91	0.000	.0595019	.098711
high	.0649068	.0082906	7.83	0.000	.0486483	.0811652
lnage	-.0091138	.0029448	-3.09	0.002	-.0148932	-.0033344
lnstudents	.0233617	.0036721	6.36	0.000	.0161637	.0305596
urban	.0991678	.0085973	11.53	0.000	.0823164	.1160191
readlevel14	.0008444	.0007699	1.10	0.279	-.0007062	.0023949
mathlevel14	-.0003777	.0006879	-0.55	0.584	-.0017383	.000983
_cons	.5002148	.0364508	13.72	0.000	.4287668	.5716628

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
state: Identity				
sd(_cons)	.1697966	.0217354	.1321195	.2182182
geodistrict: Identity				
sd(_cons)	.1887276	.0053648	.1785	.1995413
sd(Residual)	.1683435	.0018297	.1647953	.1719681

```
36. * 3. fully specified
37. 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   =   5,782

| Group Variable | No. of Groups | Observations per Group | | |
		Minimum	Average	Maximum
state	**43**	**2**	**134.5**	**1,054**
geodistrict	**1,492**	**1**	**3.9**	**251**

	Average RVI = 0.0891
	Largest FMI = 0.3422
DF adjustment: **Large sample**	DF: min = 41.32
	avg = 117,182.06
	max = 734,462.58
Model F test: **Equal FMI**	F(12, 3722.1) = 99.59
	Prob > F = 0.0000

pocschoolprop	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
inquiry_full_log	-.2180778	.0219693	-9.93	0.000	-.2611377	-.175018
readall14	-.321757	.0207186	-15.53	0.000	-.3624485	-.2810655
mathall14	-.0564829	.0223934	-2.52	0.014	-.1010303	-.0119354
primary	.0521162	.0067013	7.78	0.000	.0389819	.0652506
middle	.0754894	.0099113	7.62	0.000	.0560637	.0949152
high	.0628306	.0081945	7.67	0.000	.0467624	.0788987
lnage	-.0099412	.002916	-3.41	0.001	-.0156637	-.0042187
lnstudents	.0249094	.0036375	6.85	0.000	.0177794	.0320394
urban	.1009496	.0085308	11.83	0.000	.0842287	.1176705
pctpdfs	.1003638	.0563721	1.78	0.075	-.0101307	.2108583
readlevel14	.0009482	.0007701	1.23	0.225	-.0006066	.0025031
mathlevel14	-.0005329	.0006828	-0.78	0.436	-.0018838	.000818
_cons	.5169139	.0361686	14.29	0.000	.4460193	.5878085

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
state: Identity				
sd(_cons)	.1682425	.0215714	.1308569	.2163089
geodistrict: Identity				
sd(_cons)	.1887309	.005338	.1785531	.1994889
sd(Residual)	.1665992	.0018111	.163087	.170187

```
38.
39. log close
       name:  <unnamed>
        log:  /hdir/0/jhaber/Projects/charter_data/sorting-schools-2019/logs/robust_fil
  > tibl_mi5_linear_101019.smcl
   log type:  smcl
  closed on:  18 Oct 2019, 12:08:23
```