



```

name: <unnamed>
log: /hdir/0/jhaber/Projects/charter_data/sorting-schools-2019/logs/robust_fil
> tstudents_mi5_linear_101019.smcl
log type: smcl
opened on: 18 Oct 2019, 12:11:08

1 . *
2 . * 3D. RE-RUN LINEAR MIXED MODELS USING FILTERED DATA: SCHOOL SIZE (# STUDENTS)
3 . *
4 .
5 . mi xeq: drop if students < 10

m=0 data:
-> drop if students < 10
(24 observations deleted)

m=1 data:
-> drop if students < 10
(24 observations deleted)

m=2 data:
-> drop if students < 10
(24 observations deleted)

m=3 data:
-> drop if students < 10
(24 observations deleted)

m=4 data:
-> drop if students < 10
(24 observations deleted)

m=5 data:
-> drop if students < 10
(24 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
Mixed-effects ML regression

Group variable: cmoname

DF adjustment: Large sample

Model F test: Equal FMI

Imputations = 5
Number of obs = 5,760

Number of groups = 377
Obs per group:
    min = 1
    avg = 15.3
    max = 3,717

Average RVI = 0.0000
Largest FMI = 0.0000
DF: min = 9.95e+61
    avg = 9.95e+61
    max = .
F( 7, 9.3e+63) = 10.72
Prob > F = 0.0000

```

inquiry_full_log	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
primary	.000682	.003952	0.17	0.863	-.0070639	.0084278
middle	-.0179174	.0059109	-3.03	0.002	-.0295025	-.0063323
high	-.0142102	.0047445	-3.00	0.003	-.0235093	-.004911
lnage	-.0039005	.0016311	-2.39	0.017	-.0070974	-.0007037
lnstudents	.0089747	.001783	5.03	0.000	.0054801	.0124693
urban	.0005463	.0030932	0.18	0.860	-.0055164	.0066089
pctpdfs	.1143596	.0318291	3.59	0.000	.0519758	.1767435
_cons	.0673343	.0120876	5.57	0.000	.0436432	.0910255

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
<b>cmoname: Identity</b>				
sd(_cons)	.0764941	.0043123	.0684923	.0854307
sd(Residual)	.107843	.0010356	.1058322	.1098919

```
10. * 1. school poverty
11. mi est, dots: mixed inquiry_full_log povertyschool primary middle high lnage lnstudent
> nts urban pctpdfs || cmoname: ,
```

Imputations (5):  
..... done

```
Multiple-imputation estimates      Imputations      =      5
Mixed-effects ML regression      Number of obs      =    5,760

Group variable: cmoname          Number of groups   =     377
                                Obs per group:
                                min =      1
                                avg =    15.3
                                max =    3,717
                                Average RVI      =    0.0087
                                Largest FMI       =    0.0708
DF adjustment: Large sample      DF: min           =    849.53
                                avg           =  1304236.92
                                max           =  7508050.97
Model F test: Equal FMI          F( 8,197893.0)    =    29.43
                                Prob > F        =    0.0000
```

inquiry_full_log	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
povertyschool	-.0006203	.0000507	-12.24	0.000	-.0007197	-.0005208
primary	-9.65e-06	.0039035	-0.00	0.998	-.0076604	.0076411
middle	-.0158244	.005837	-2.71	0.007	-.0272647	-.0043842
high	-.0145059	.0046872	-3.09	0.002	-.0236926	-.0053191
lnage	-.0035992	.0016099	-2.24	0.025	-.0067546	-.0004438
lnstudents	.0076211	.0017629	4.32	0.000	.0041658	.0110765
urban	.0085855	.0031273	2.75	0.006	.002456	.0147151
pctpdfs	.1113297	.0314542	3.54	0.000	.0496802	.1729791
_cons	.1084841	.0123921	8.75	0.000	.0841961	.1327722

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
<b>cmoname: Identity</b>				
sd(_cons)	.0770593	.004297	.0690812	.0859587
sd(Residual)	.1062731	.0010229	.1042871	.1082969

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	=	5,760
Group variable: <b>cmoname</b>	Number of groups	=	377
	Obs per group:		
	min	=	1
	avg	=	15.3
	max	=	3,717
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
DF adjustment: <b>Large sample</b>	DF: min	=	4.62e+61
	avg	=	4.62e+61
	max	=	.
Model F test: <b>Equal FMI</b>	F( 8, 1.8e+64)	=	32.86
	Prob > F	=	0.0000

inquiry_full_log	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
pocschoolprop	-.073485	.0053966	-13.62	0.000	-.0840622	-.0629079
primary	.0059126	.0039086	1.51	0.130	-.0017481	.0135733
middle	-.0092371	.0058524	-1.58	0.114	-.0207076	.0022334
high	-.0086459	.0046876	-1.84	0.065	-.0178335	.0005417
lnage	-.0060321	.001613	-3.74	0.000	-.0091935	-.0028707
lnstudents	.0122175	.001771	6.90	0.000	.0087464	.0156887
urban	.0188045	.0033266	5.65	0.000	.0122846	.0253245
pctpdfs	.1131427	.0313273	3.61	0.000	.0517423	.174543
_cons	.0923118	.0120437	7.66	0.000	.0687067	.115917

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
<b>cmoname: Identity</b>				
sd(_cons)	.0756349	.00426	.0677298	.0844627
sd(Residual)	.1061279	.0010193	.1041488	.1081445

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	=	5,760
Group variable: <b>cmoname</b>	Number of groups	=	377
	Obs per group:		
	min	=	1
	avg	=	15.3
	max	=	3,717
	Average RVI	=	0.0005
	Largest FMI	=	0.0041
DF adjustment: <b>Large sample</b>	DF: min	=	242,536.35
	avg	=	1.32e+09
	max	=	6.39e+09
Model F test: <b>Equal FMI</b>	F( 8, 7.5e+07)	=	21.17
	Prob > F	=	0.0000

inquiry_full_log	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
povertysd	-.2127251	.022074	-9.64	0.000	-.2559896	-.1694606
primary	.0001869	.0039202	0.05	0.962	-.0074966	.0078705
middle	-.0186103	.0058632	-3.17	0.002	-.0301019	-.0071186
high	-.0133972	.0047068	-2.85	0.004	-.0226224	-.004172
lnage	-.0037	.0016181	-2.29	0.022	-.0068715	-.0005285
lnstudents	.0092059	.0017688	5.20	0.000	.0057391	.0126727
urban	.0118113	.0032829	3.60	0.000	.005377	.0182457
pctpdfs	.112226	.03157	3.55	0.000	.0503499	.1741022
_cons	.0926876	.0122952	7.54	0.000	.0685895	.1167857

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
<b>cmoname: Identity</b>				
sd(_cons)	.077053	.004292	.0690838	.0859415
sd(Residual)	.1069123	.0010266	.104919	.1089435

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  
 Mixed-effects ML regression

Imputations = 5  
 Number of obs = 5,760

Group variable: **cmoname**

Number of groups = 377  
 Obs per group:  
     min = 1  
     avg = 15.3  
     max = 3,717

DF adjustment: **Large sample**

Average RVI = 0.0003  
 Largest FMI = 0.0031  
 DF: min = 430, 157.64  
     avg = 1.91e+10  
     max = 7.75e+10

Model F test: **Equal FMI**

F( 8, 1.6e+08) = 11.11  
 Prob > F = 0.0000

inquiry_full_log	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
pocsd	-.0320571	.0086763	-3.69	0.000	-.0490624	-.0150518
primary	.0015058	.0039537	0.38	0.703	-.0062433	.0092549
middle	-.0164451	.0059174	-2.78	0.005	-.028043	-.0048471
high	-.0136753	.0047412	-2.88	0.004	-.022968	-.0043827
lnage	-.0043746	.0016342	-2.68	0.007	-.0075776	-.0011716
lnstudents	.0100493	.0018045	5.57	0.000	.0065125	.0135861
urban	.0052889	.0033458	1.58	0.114	-.0012687	.0118465
pctpdfs	.1129223	.0317944	3.55	0.000	.0506065	.1752382
_cons	.0705404	.0121028	5.83	0.000	.0468193	.0942616

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
<b>cmoname: Identity</b>				
sd(_cons)	.076311	.0043114	.0683118	.0852468
sd(Residual)	.1077204	.0010345	.1057118	.1097672

```

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	=	5,760
Group variable: <b>geodistrict</b>	Number of groups	=	1,475
	Obs per group:		
	min	=	1
	avg	=	3.9
	max	=	251
	Average RVI	=	0.0539
	Largest FMI	=	0.1054
DF adjustment: <b>Large sample</b>	DF: min	=	393.35
	avg	=	4,351.66
	max	=	24,668.62
Model F test: <b>Equal FMI</b>	F( 6, 4962.1)	=	11.22
	Prob > F	=	0.0000

povertyschoolprop	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
primary	-.0054792	.0097066	-0.56	0.573	-.0245582	.0135999
middle	.0305353	.0141154	2.16	0.031	.0028382	.0582324
high	-.0106649	.0115256	-0.93	0.355	-.0333148	.011985
lnage	.0017329	.0039645	0.44	0.662	-.0060439	.0095098
lnstudents	-.0188747	.0045398	-4.16	0.000	-.0278001	-.0099493
urban	.069037	.0109038	6.33	0.000	.0476628	.0904111
_cons	.5816134	.0271249	21.44	0.000	.5283551	.6348717

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
<b>geodistrict: Identity</b>				
sd(_cons)	.1907806	.006408	.1786251	.2037634
sd(Residual)	.2387371	.0025978	.2336959	.243887

```

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	=	5,760
Group variable: <b>geodistrict</b>	Number of groups	=	1,475
	Obs per group:		
	min	=	1
	avg	=	3.9
	max	=	251
	Average RVI	=	0.0682
	Largest FMI	=	0.1862
DF adjustment: <b>Large sample</b>	DF: min	=	132.21
	avg	=	3,529.64
	max	=	22,976.60
Model F test: <b>Equal FMI</b>	F( 8, 4481.6)	=	20.32
	Prob > F	=	0.0000

povertyschoolprop	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
inquiry_full_log	-.2996595	.0307098	-9.76	0.000	-.359922	-.239397
primary	-.0043213	.0096355	-0.45	0.654	-.0232614	.0146188
middle	.0266171	.0140561	1.89	0.059	-.0009686	.0542028
high	-.0133516	.0114477	-1.17	0.244	-.03585	.0091469
lnage	.0007997	.0039399	0.20	0.839	-.0069297	.0085291
lnstudents	-.015475	.004531	-3.42	0.001	-.0243868	-.0065633
urban	.0713304	.0107797	6.62	0.000	.0501994	.0924613
pctpdfs	.0659512	.0836306	0.79	0.432	-.0994758	.2313782
_cons	.6053498	.0269032	22.50	0.000	.5525422	.6581574

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
<b>geodistrict: Identity</b>				
sd(_cons)	.1861846	.0063407	.1741621	.199037
sd(Residual)	.2372417	.0025698	.2322556	.2423349

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	=	5,760
Group variable: <b>geodistrict</b>	Number of groups	=	1,475
	Obs per group:		
	min	=	1
	avg	=	3.9
	max	=	251
	Average RVI	=	0.2041
	Largest FMI	=	0.3706
DF adjustment: <b>Large sample</b>	DF: min	=	35.43
	avg	=	929.01
	max	=	7,159.82
Model F test: <b>Equal FMI</b>	F( 10, 889.8)	=	91.81
	Prob > F	=	0.0000

povertyschoolprop	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
readall14	-.4410372	.0286301	-15.40	0.000	-.4980888	-.3839856
mathall14	-.0678373	.0304223	-2.23	0.032	-.1295714	-.0061033
primary	.0029474	.0088947	0.33	0.740	-.0145132	.020408
middle	.0387959	.0131151	2.96	0.003	.0130709	.0645209
high	.003478	.011559	0.30	0.764	-.0194853	.0264413
lnage	.0085392	.0039181	2.18	0.031	.0007893	.0162891
lnstudents	-.0004753	.0053686	-0.09	0.930	-.0111661	.0102155
urban	.0635774	.0102244	6.22	0.000	.043515	.0836398
readlevel14	-.0006301	.0008619	-0.73	0.465	-.0023249	.0010646
mathlevel14	.0002577	.0008303	0.31	0.756	-.0013733	.0018887
_cons	.7140196	.036257	19.69	0.000	.6406564	.7873827

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
<b>geodistrict: Identity</b>				
sd(_cons)	.1740609	.0057902	.1630726	.1857896
sd(Residual)	.2197574	.0025271	.2148231	.224805

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

Mixed-effects ML regression

Group variable: **geodistrict**

DF adjustment: **Large sample**

Model F test: **Equal FMI**

Imputations = **5**

Number of obs = **5,760**

Number of groups = **1,475**

Obs per group:

min = **1**

avg = **3.9**

max = **251**

Average RVI = **0.1992**

Largest FMI = **0.3783**

DF: min = **34.04**

avg = **870.10**

max = **7,646.62**

F( **12, 1179.1**) = **81.83**

Prob > F = **0.0000**

povertyschoolprop	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
inquiry_full_log	-.2081827	.0293351	-7.10	0.000	-.2658893	-.150476
readall14	-.4210113	.0289403	-14.55	0.000	-.4788002	-.3632224
mathall14	-.0772266	.0304836	-2.53	0.016	-.1391742	-.015279
primary	.0038541	.0088732	0.43	0.664	-.0135667	.0212748
middle	.0357378	.0130826	2.73	0.006	.010076	.0613995
high	.0014964	.0115165	0.13	0.897	-.0213827	.0243756
lnage	.0076103	.0039055	1.95	0.053	-.0001154	.0153361
lnstudents	.0010932	.0053839	0.20	0.840	-.0096434	.0118298
urban	.0654746	.0101502	6.45	0.000	.0455576	.0853915
pctpdfs	.0535075	.0785912	0.68	0.498	-.1024675	.2094825
readlevel14	-.0004885	.000863	-0.57	0.572	-.0021864	.0012094
mathlevel14	.0000628	.0008217	0.08	0.939	-.0015504	.0016759
_cons	.7294338	.0358451	20.35	0.000	.6570849	.8017826

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
<b>geodistrict: Identity</b>				
sd(_cons)	.1708352	.0057511	.1599254	.1824891
sd(Residual)	.2191556	.0024927	.2142958	.2241256

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

Mixed-effects ML regression

Imputations = **5**

Number of obs = **5,760**

Group Variable	No. of Groups	Observations per Group		
		Minimum	Average	Maximum
<b>state</b>	<b>43</b>	<b>2</b>	<b>134.0</b>	<b>1,051</b>
<b>geodistrict</b>	<b>1,486</b>	<b>1</b>	<b>3.9</b>	<b>251</b>

DF adjustment: **Large sample**

Model F test: **Equal FMI**

Average RVI = 0.0000  
 Largest FMI = 0.0000  
 DF: min = 9.97e+54  
 avg = 1.53e+59  
 max = .  
 F( 6, . ) = 38.76  
 Prob > F = 0.0000

pocschoolprop	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
primary	.0451687	.0072678	6.21	0.000	.0309242	.0594133
middle	.0708455	.0106939	6.62	0.000	.0498858	.0918053
high	.0573464	.0086445	6.63	0.000	.0404034	.0742893
lnage	-.015952	.0030647	-5.21	0.000	-.0219587	-.0099454
lnstudents	.0040306	.0035073	1.15	0.250	-.0028435	.0109047
urban	.1062233	.0091999	11.55	0.000	.0881918	.1242548
_cons	.4363635	.0357337	12.21	0.000	.3663267	.5064003

Random-effects Parameters		Estimate	Std. Err.	[95% Conf. Interval]	
<b>state:</b> Identity	sd(_cons)	.1743979	.0227666	.1350273	.2252478
<b>geodistrict:</b> Identity	sd(_cons)	.2005512	.0056552	.1897679	.2119473
	sd(Residual)	.1820934	.0019675	.1782778	.1859908

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 = 5,760

Group Variable	No. of Groups	Observations per Group		
		Minimum	Average	Maximum
<b>state</b>	<b>43</b>	<b>2</b>	<b>134.0</b>	<b>1,051</b>
<b>geodistrict</b>	<b>1,486</b>	<b>1</b>	<b>3.9</b>	<b>251</b>

DF adjustment: **Large sample**

Model F test: **Equal FMI**

Average RVI = 0.0000  
 Largest FMI = 0.0000  
 DF: min = 1.00e+55  
 avg = 1.26e+59  
 max = .  
 F( 8, . ) = 49.59  
 Prob > F = 0.0000

pocschoolprop	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
inquiry_full_log	-.2940151	.0233049	-12.62	0.000	-.3396919	-.2483384
primary	.0459319	.0071621	6.41	0.000	.0318944	.0599694
middle	.0666335	.0105428	6.32	0.000	.04597	.087297
high	.0547571	.0085203	6.43	0.000	.0380576	.0714567
lnage	-.0167047	.0030208	-5.53	0.000	-.0226254	-.010784
lnstudents	.0071828	.0034673	2.07	0.038	.0003871	.0139785
urban	.1084682	.0090876	11.94	0.000	.0906569	.1262795
pctpdfs	.1046668	.0600945	1.74	0.082	-.0131162	.2224498
_cons	.4618551	.0353192	13.08	0.000	.3926308	.5310794



Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
<b>state:</b> Identity sd(_cons)	<b>.172054</b>	<b>.0224874</b>	<b>.133172</b>	<b>.2222882</b>
<b>geodistrict:</b> Identity sd(_cons)	<b>.1997032</b>	<b>.0056125</b>	<b>.1890004</b>	<b>.2110122</b>
sd(Residual)	<b>.1792678</b>	<b>.0019392</b>	<b>.1755072</b>	<b>.1831091</b>

34. \* 2. academic performance

```
35. mi est, dots: mixed pocschoolprop readall14 mathall14 primary middle high lnage linst
> udents urban readlevel14 mathlevel14 || state: || geodistrict: ,
```

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

Multiple-imputation estimates	Imputations	=	<b>5</b>
Mixed-effects ML regression	Number of obs	=	<b>5,760</b>

Group Variable	No. of Groups	Observations per Group Minimum      Average      Maximum
state	43	2      134.0      1,051
geodistrict	1,486	1      3.9      251

		Average RVI	=	<b>0.1114</b>
		Largest FMI	=	<b>0.3542</b>
DF adjustment:	<b>Large sample</b>	DF: min	=	<b>38.67</b>
		avg	=	<b>43,879.41</b>
		max	=	<b>267,045.98</b>
Model F test:	<b>Equal FMI</b>	F( 10, 1856.0 )	=	<b>105.11</b>
		Prob > F	=	<b>0.0000</b>

pocschoolprop	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
readall14	-.3407837	.0206106	-16.53	0.000	-.3812238	-.3003435
mathall14	-.0523194	.0220772	-2.37	0.019	-.0960055	-.0086333
primary	.0527231	.0068012	7.75	0.000	.0393928	.0660534
middle	.0805199	.0100959	7.98	0.000	.0607316	.1003081
high	.0665568	.0082539	8.06	0.000	.0503758	.0827378
lnage	-.0092502	.0029546	-3.13	0.002	-.0150501	-.0034504
lnstudents	.0236779	.0039245	6.03	0.000	.0159805	.0313754
urban	.0981423	.0086085	11.40	0.000	.0812689	.1150158
readlevel14	.0008482	.0007853	1.08	0.287	-.0007407	.0024371
mathlevel14	-.0004206	.0006952	-0.60	0.546	-.0017978	.0009566
_cons	.4988604	.0379331	13.15	0.000	.4244385	.5732823

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
<b>state:</b> Identity sd(_cons)	<b>.1697276</b>	<b>.021742</b>	<b>.1320421</b>	<b>.2181687</b>
<b>geodistrict:</b> Identity sd(_cons)	<b>.1888057</b>	<b>.0053632</b>	<b>.1785813</b>	<b>.1996154</b>
sd(Residual)	<b>.1681303</b>	<b>.0018339</b>	<b>.1645739</b>	<b>.1717635</b>

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  
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	5,760

Group Variable	No. of Groups	Observations per Group		
		Minimum	Average	Maximum
state	43	2	134.0	1,051
geodistrict	1,486	1	3.9	251

		Average RVI	=	<b>0.0993</b>
		Largest FMI	=	<b>0.3707</b>
DF adjustment:	<b>Large sample</b>	DF: min	=	<b>35.40</b>
		avg	=	<b>58,050.46</b>
		max	=	<b>360,534.62</b>
Model F test:	<b>Equal FMI</b>	F( 12, 3051.2)	=	<b>98.30</b>
		Prob > F	=	<b>0.0000</b>

pocschoolprop	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
inquiry_full_log	-.2188304	.0219262	-9.98	0.000	-.2618054	-.1758554
readall14	-.3193011	.0206703	-15.45	0.000	-.3598795	-.2787228
mathall14	-.0603943	.0220186	-2.74	0.007	-.1040143	-.0167744
primary	.053151	.0067323	7.89	0.000	.0399559	.0663461
middle	.0766877	.0100021	7.67	0.000	.0570832	.0962922
high	.0643483	.0081632	7.88	0.000	.0483458	.0803509
lnage	-.0100985	.002925	-3.45	0.001	-.0158399	-.0043572
lnstudents	.0249581	.0038905	6.42	0.000	.0173275	.0325888
urban	.099929	.0085404	11.70	0.000	.0831891	.1166689
pctpdfs	.0998544	.0563184	1.77	0.076	-.0105353	.120244
readlevel14	.000945	.0007862	1.20	0.237	-.0006505	.0025405
mathlevel14	-.0005819	.0006892	-0.84	0.400	-.0019474	.0007836
_cons	.5172913	.0376211	13.75	0.000	.4434846	.591098

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
<b>state:</b> Identity sd(_cons)	<b>.168154</b>	<b>.021576</b>	<b>.1307637</b>	<b>.2162357</b>
<b>geodistrict:</b> Identity sd(_cons)	<b>.1888632</b>	<b>.005338</b>	<b>.1786854</b>	<b>.1996208</b>
sd(Residual)	<b>.1663552</b>	<b>.001815</b>	<b>.1628356</b>	<b>.1699509</b>

38.

```
39. log close
    name: <unnamed>
    log: /hdir/0/jhaber/Projects/charter_data/sorting-schools-2019/logs/robust_fil
> tstudents_mi5_linear_101019.smcl
    log type: smcl
    closed on: 18 Oct 2019, 12:14:25
```