



Residual | **61164.3308 1547 39.5373826** User: Bruce Baker
 name: <unnamed> R-squared = **0.4875**
 log: F:\Current Work\al_NJ 2013 Panel Data\NJ Data\nj_efficiency.smcl
 log type: smcl
 opened on: **30 Jan 2015, 09:16:36**

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1 .
2 . use "nj_school_resources.dta", clear

3 . keep if year==2014
   (12665 observations deleted)

4 . keep school_gradespan districtname schoolname codistsch

5 . sort codistsch

6 . save schoolname.dta, replace
   file schoolname.dta saved

7 .
8 . use "nj_school_resources.dta", clear

9 . gen x_spd=(spd1112+ spd1213)/2
   (2136 missing values generated)

10 . gen ln_salperpupil=ln(salary_perpupil)
    (741 missing values generated)

11 . gen ln_enroll=ln(rowtot)
    (605 missing values generated)

12 . set matsize 5000

13 .
14 .
15 . xi: reg la_sgp13 totscale_ask4_lal x_spd perfree perlep ln_salperpupil ln_enroll i.year i.co if ele
    i.year      _Iyear_2009-2014      (naturally coded; _Iyear_2009 omitted)
    i.co        _Ico_1-22              (_Ico_1 for co==11 omitted)
    note: _Ico_3 omitted because of collinearity
  
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Source	SS	df	MS	Number of obs =	1579
Model	58169.3684	31	1876.43124	F(31, 1547) =	47.46
Residual	61164.3308	1547	39.5373826	Prob > F =	0.0000
				R-squared =	0.4875
				Adj R-squared =	0.4772
Total	119333.699	1578	75.6233835	Root MSE =	6.2879

la_sgp13	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
totscale_ask4_lal	.0670619	.0180179	3.72	0.000	.0317198	.102404
x_spd	-3.07928	3.705574	-0.83	0.406	-10.34776	4.189199
perfree	-16.19258	1.122625	-14.42	0.000	-18.39461	-13.99055
perlep	10.00964	2.528508	3.96	0.000	5.049976	14.96931
ln_salperpupil	.957507	.7972366	1.20	0.230	-.6062715	2.521285
ln_enroll	.7120675	.3999425	1.78	0.075	-.0724192	1.496554
_Iyear_2010	.7358856	.5678022	1.30	0.195	-.3778577	1.849629
_Iyear_2011	1.142151	.5633601	2.03	0.043	.037121	2.247181
_Iyear_2012	1.156189	.5636639	2.05	0.040	.0505634	2.261815
_Iyear_2013	1.548654	.5704556	2.71	0.007	.429706	2.667602
_Iyear_2014	1.030811	.5697286	1.81	0.071	-.0867111	2.148333
_Ico_2	-5.053691	.8983737	-5.63	0.000	-6.81585	-3.291532
_Ico_3	0	(omitted)				
_Ico_4	.6399306	.8806696	0.73	0.468	-1.087502	2.367363
_Ico_5	-.7089953	1.196662	-0.59	0.554	-3.056246	1.638255
_Ico_6	.8899927	1.090294	0.82	0.414	-1.248618	3.028603
_Ico_7	-7.68008	1.502406	-5.11	0.000	-10.62705	-4.733112

_Ico_8	3.168452	1.686977	1.88	0.061	-.1405517	6.477456
_Ico_9	.6379132	1.106698	0.58	0.564	-1.532873	2.8087
_Ico_10	-1.940294	1.544179	-1.26	0.209	-4.969198	1.088611
_Ico_11	-1.400439	1.6037	-0.87	0.383	-4.546095	1.745217
_Ico_12	2.871793	.9275529	3.10	0.002	1.052399	4.691187
_Ico_13	-1.864143	1.310847	-1.42	0.155	-4.435367	.7070808
_Ico_14	-.487931	1.770085	-0.28	0.783	-3.959951	2.984089
_Ico_15	-4.970573	1.289061	-3.86	0.000	-7.499064	-2.442082
_Ico_16	-1.569114	.9078803	-1.73	0.084	-3.34992	.2116918
_Ico_17	-.0563055	1.052206	-0.05	0.957	-2.120206	2.007595
_Ico_18	-.8829541	1.276408	-0.69	0.489	-3.386627	1.620719
_Ico_19	2.499569	1.244819	2.01	0.045	.0578585	4.94128
_Ico_20	-.5296391	.9953843	-0.53	0.595	-2.482084	1.422806
_Ico_21	2.016993	.9793478	2.06	0.040	.0960039	3.937983
_Ico_22	-3.320971	1.731972	-1.92	0.055	-6.718232	.0762901
_cons	28.54856	8.591654	3.32	0.001	11.69605	45.40108

16 . predict resid_lasgp13_e, rstandard
(7587 missing values generated)

17 . xi: reg m_sgp13 totscale_ask4_math x_spd perfree perlep ln_salperpupil ln_enroll i.year i.co if ele
i.year _Iyear_2009-2014 (naturally coded; _Iyear_2009 omitted)
i.co _Ico_1-22 (_Ico_1 for co==11 omitted)
note: _Ico_3 omitted because of collinearity

Source	SS	df	MS
Model	47025.1526	31	1516.94041
Residual	130255.418	1573	82.8070047
Total	177280.571	1604	110.524047

Number of obs = 1605
F(31, 1573) = 18.32
Prob > F = 0.0000
R-squared = 0.2653
Adj R-squared = 0.2508
Root MSE = 9.0998

m_sgp13	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
totscale_ask4_math	.0219493	.0157644	1.39	0.164	-.0089722 .0528708
x_spd	-22.3534	5.300802	-4.22	0.000	-32.75078 -11.95601
perfree	-8.629734	1.563068	-5.52	0.000	-11.69565 -5.563818
perlep	16.65058	3.621344	4.60	0.000	9.547412 23.75375
ln_salperpupil	2.2334	1.141964	1.96	0.051	-.0065312 4.473332
ln_enroll	2.363893	.5774025	4.09	0.000	1.231334 3.496453
_Iyear_2010	.0155256	.8237518	0.02	0.985	-1.600241 1.631293
_Iyear_2011	.443599	.8164655	0.54	0.587	-1.157876 2.045074
_Iyear_2012	.3325553	.8147805	0.41	0.683	-1.265615 1.930725
_Iyear_2013	.261537	.8224203	0.32	0.751	-1.351618 1.874692
_Iyear_2014	.1570795	.8220258	0.19	0.848	-1.455302 1.769461
_Ico_2	-8.098725	1.27567	-6.35	0.000	-10.60092 -5.596532
_Ico_3	0	(omitted)			
_Ico_4	1.488728	1.256431	1.18	0.236	-.9757275 3.953183
_Ico_5	2.008324	1.716264	1.17	0.242	-1.358082 5.37473
_Ico_6	1.98077	1.566807	1.26	0.206	-1.092481 5.05402
_Ico_7	-6.111886	2.146135	-2.85	0.004	-10.32147 -1.9023
_Ico_8	11.30452	2.431775	4.65	0.000	6.534661 16.07438
_Ico_9	.7803066	1.586456	0.49	0.623	-2.331483 3.892097
_Ico_10	1.070189	2.22785	0.48	0.631	-3.299679 5.440057
_Ico_11	8.776475	2.312731	3.79	0.000	4.240116 13.31283
_Ico_12	.5354873	1.316364	0.41	0.684	-2.046526 3.117501
_Ico_13	5.284255	1.896191	2.79	0.005	1.564928 9.003583
_Ico_14	3.086301	2.557232	1.21	0.228	-1.92964 8.102243
_Ico_15	-6.008107	1.859893	-3.23	0.001	-9.656237 -2.359976
_Ico_16	-1.019913	1.305597	-0.78	0.435	-3.580806 1.540981
_Ico_17	-.9634718	1.512827	-0.64	0.524	-3.930842 2.003898
_Ico_18	-2.603589	1.842641	-1.41	0.158	-6.217881 1.010703
_Ico_19	6.123111	1.798213	3.41	0.001	2.595965 9.650258
_Ico_20	.0322248	1.424636	0.02	0.982	-2.76216 2.82661
_Ico_21	3.587922	1.404353	2.55	0.011	.8333225 6.342522

_Ico_22	-5.642081	2.510812	-2.25	0.025	-10.56697	-.7171908
_cons	15.07604	11.58568	1.30	0.193	-7.64895	37.80104

18 . predict resid_msgp13_e, rstandard
(7544 missing values generated)

19 . xi: reg la_sgp12 totscale_ask4_lal x_spd perfree perlep ln_salperpupil ln_enroll i.year i.co if ele
i.year _Iyear_2009-2014 (naturally coded; _Iyear_2009 omitted)
i.co _Ico_1-22 (_Ico_1 for co==11 omitted)
note: _Ico_3 omitted because of collinearity

Source	SS	df	MS	Number of obs =	1587
Model	43106.8132	31	1390.54236	F(31, 1555) =	27.79
Residual	77805.4688	1555	50.0356713	Prob > F =	0.0000
				R-squared =	0.3565
				Adj R-squared =	0.3437
Total	120912.282	1586	76.2372522	Root MSE =	7.0736

la_sgp12	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
totscale_ask4_lal	.0776681	.02023	3.84	0.000	.0379871 .1173491
x_spd	-15.96239	4.164519	-3.83	0.000	-24.13105 -7.79372
perfree	-11.63193	1.26109	-9.22	0.000	-14.10554 -9.15831
perlep	21.02045	2.844204	7.39	0.000	15.44157 26.59933
ln_salperpupil	.1938965	.8785495	0.22	0.825	-1.52937 1.917163
ln_enroll	-.9265121	.446018	-2.08	0.038	-1.801372 -.0516519
_Iyear_2010	.8511481	.6362668	1.34	0.181	-.3968832 2.09918
_Iyear_2011	.8817963	.6312897	1.40	0.163	-.3564726 2.120065
_Iyear_2012	.9534216	.6315958	1.51	0.131	-.2854478 2.192291
_Iyear_2013	1.278456	.6404538	2.00	0.046	.0222115 2.5347
_Iyear_2014	.9898834	.6397789	1.55	0.122	-.2650369 2.244804
_Ico_2	.3715168	1.009753	0.37	0.713	-1.609104 2.352137
_Ico_3	0	(omitted)			
_Ico_4	3.833367	.9899364	3.87	0.000	1.891616 5.775118
_Ico_5	4.537901	1.345641	3.37	0.001	1.898439 7.177363
_Ico_6	1.006663	1.225832	0.82	0.412	-1.397794 3.411121
_Ico_7	2.946173	1.689959	1.74	0.081	-.3686647 6.261012
_Ico_8	7.141428	1.896464	3.77	0.000	3.421532 10.86132
_Ico_9	4.721182	1.244598	3.79	0.000	2.279913 7.16245
_Ico_10	4.940491	1.736563	2.84	0.004	1.534239 8.346744
_Ico_11	7.580521	1.803985	4.20	0.000	4.042022 11.11902
_Ico_12	8.616835	1.042894	8.26	0.000	6.571208 10.66246
_Ico_13	3.859261	1.474562	2.62	0.009	.9669222 6.751601
_Ico_14	1.287566	1.990395	0.65	0.518	-2.616576 5.191708
_Ico_15	6.620573	1.449449	4.57	0.000	3.777492 9.463654
_Ico_16	2.328876	1.020588	2.28	0.023	.3270014 4.330751
_Ico_17	4.940178	1.160401	4.26	0.000	2.664061 7.216294
_Ico_18	4.453054	1.435845	3.10	0.002	1.636658 7.26945
_Ico_19	2.041095	1.400298	1.46	0.145	-.705577 4.787766
_Ico_20	2.299668	1.119451	2.05	0.040	.1038756 4.49546
_Ico_21	2.932916	1.101509	2.66	0.008	.7723164 5.093515
_Ico_22	3.712795	1.947725	1.91	0.057	-.1076489 7.53324
_cons	37.76653	9.463019	3.99	0.000	19.20491 56.32815

20 . predict resid_lasgp12_e, rstandard
(7556 missing values generated)

21 . xi: reg m_sgp12 totscale_ask4_math x_spd perfree perlep ln_salperpupil ln_enroll i.year i.co if ele
i.year _Iyear_2009-2014 (naturally coded; _Iyear_2009 omitted)
i.co _Ico_1-22 (_Ico_1 for co==11 omitted)
note: _Ico_3 omitted because of collinearity

Source	SS	df	MS	Number of obs =	1613
Model	51267.7446	31	1653.79821	F(31, 1581) =	21.82
Residual	119815.345	1581	75.7845321	Prob > F =	0.0000
				R-squared =	0.2997
				Adj R-squared =	0.2859
Total	171083.09	1612	106.130949	Root MSE =	8.7054

m_sgp12	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
totscale_ask4_math	.078028	.0150461	5.19	0.000	.0485157	.1075404
x_spd	12.38985	5.066899	2.45	0.015	2.451303	22.3284
perfree	-10.57914	1.494847	-7.08	0.000	-13.51123	-7.64705
perlep	27.55977	3.464129	7.96	0.000	20.765	34.35454
ln_salperpupil	1.970065	1.071011	1.84	0.066	-.1306858	4.070815
ln_enroll	1.103692	.5480285	2.01	0.044	.0287528	2.178631
_Iyear_2010	-.3373368	.7850609	-0.43	0.667	-1.877207	1.202533
_Iyear_2011	.1835688	.7780096	0.24	0.814	-1.34247	1.709608
_Iyear_2012	.1922801	.7765359	0.25	0.804	-1.330868	1.715428
_Iyear_2013	.1827078	.785391	0.23	0.816	-1.35781	1.723225
_Iyear_2014	-.0529396	.7850575	-0.07	0.946	-1.592803	1.486924
_Ico_2	-2.112013	1.219277	-1.73	0.083	-4.503582	.279556
_Ico_3	0	(omitted)				
_Ico_4	1.551113	1.200814	1.29	0.197	-.8042423	3.906467
_Ico_5	6.854158	1.641107	4.18	0.000	3.635183	10.07313
_Ico_6	-4.503327	1.497883	-3.01	0.003	-7.441373	-1.565281
_Ico_7	5.916028	2.053018	2.88	0.004	1.889104	9.942952
_Ico_8	6.178654	2.32463	2.66	0.008	1.618972	10.73834
_Ico_9	6.350935	1.517124	4.19	0.000	3.375148	9.326722
_Ico_10	-.3609267	2.130426	-0.17	0.865	-4.539685	3.817831
_Ico_11	7.753894	2.212273	3.50	0.000	3.414597	12.09319
_Ico_12	1.565085	1.258573	1.24	0.214	-.9035626	4.033732
_Ico_13	7.125996	1.813945	3.93	0.000	3.568006	10.68399
_Ico_14	2.148097	2.445274	0.88	0.380	-2.648224	6.944418
_Ico_15	-.1282243	1.778409	-0.07	0.943	-3.616512	3.360063
_Ico_16	1.738096	1.24779	1.39	0.164	-.7094005	4.185592
_Ico_17	4.702843	1.417639	3.32	0.001	1.922192	7.483494
_Ico_18	2.140951	1.762704	1.21	0.225	-1.316533	5.598434
_Ico_19	1.313565	1.720188	0.76	0.445	-2.060524	4.687655
_Ico_20	-.0120245	1.36246	-0.01	0.993	-2.684443	2.660394
_Ico_21	2.998647	1.343297	2.23	0.026	.3638162	5.633478
_Ico_22	-7.267333	2.400792	-3.03	0.003	-11.9764	-2.558263
_cons	6.214116	10.80783	0.57	0.565	-14.98508	27.41331

22 . predict resid_msgp12_e, rstandard
(7513 missing values generated)

23 .

24 . xi: reg la_sgp13 totscale_ask7_lal x_spd perfree perlep ln_salperpupil ln_enroll i.year i.co if mid
 i.year _Iyear_2009-2014 (naturally coded; _Iyear_2009 omitted)
 i.co _Ico_1-22 (_Ico_1 for co==11 omitted)

Source	SS	df	MS	Number of obs =	3592
Model	119113.464	32	3722.29575	F(32, 3559) =	97.75
Residual	135527.299	3559	38.0801626	Prob > F =	0.0000
				R-squared =	0.4678
				Adj R-squared =	0.4630
Total	254640.763	3591	70.9108223	Root MSE =	6.1709

la_sgp13	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
totscale_ask7_lal	.2852917	.0129453	22.04	0.000	.2599108	.3106726
x_spd	-3.120351	2.446367	-1.28	0.202	-7.916773	1.676071
perfree	-4.493491	.8587042	-5.23	0.000	-6.177093	-2.80989
perlep	11.09898	2.358977	4.70	0.000	6.473894	15.72406
ln_salperpupil	.7516466	.3879935	1.94	0.053	-.0090653	1.512359
ln_enroll	-.8862287	.2198803	-4.03	0.000	-1.317333	-.4551245
_Iyear_2010	.2636025	.362878	0.73	0.468	-.4478672	.9750722
_Iyear_2011	2.166378	.3659883	5.92	0.000	1.44881	2.883946
_Iyear_2012	2.32127	.3668022	6.33	0.000	1.602107	3.040434
_Iyear_2013	1.641587	.3637399	4.51	0.000	.9284273	2.354747
_Iyear_2014	1.407203	.3638735	3.87	0.000	.6937811	2.120624
_Ico_2	-3.779971	.67911	-5.57	0.000	-5.111455	-2.448487
_Ico_3	2.083063	.9178081	2.27	0.023	.2835797	3.882545
_Ico_4	.4127296	.6885035	0.60	0.549	-.9371715	1.762631
_Ico_5	-.4381308	.8518334	-0.51	0.607	-2.108261	1.232
_Ico_6	.5124273	.7577108	0.68	0.499	-.9731639	1.998018
_Ico_7	-1.496058	.8548977	-1.75	0.080	-3.172197	.1800809
_Ico_8	-1.454802	.7269545	-2.00	0.045	-2.880091	-.0295124
_Ico_9	-.2393226	.7120139	-0.34	0.737	-1.635319	1.156674
_Ico_10	-.125678	.7598161	-0.17	0.869	-1.615397	1.364041
_Ico_11	-3.526047	.8413969	-4.19	0.000	-5.175716	-1.876378
_Ico_12	2.226547	.7077647	3.15	0.002	.8388815	3.614212
_Ico_13	.1630317	.9744398	0.17	0.867	-1.747485	2.073548
_Ico_14	-.6970768	.8951115	-0.78	0.436	-2.45206	1.057906
_Ico_15	-2.794602	.8909179	-3.14	0.002	-4.541363	-1.047841
_Ico_16	-1.50685	.6874087	-2.19	0.028	-2.854605	-.1590955
_Ico_17	-2.115311	.691245	-3.06	0.002	-3.470587	-.7600351
_Ico_18	-.019422	.9183614	-0.02	0.983	-1.81999	1.781146
_Ico_19	.8330055	.7703909	1.08	0.280	-.6774466	2.343457
_Ico_20	-.6906834	.7160486	-0.96	0.335	-2.09459	.7132234
_Ico_21	1.669076	.7978272	2.09	0.037	.1048315	3.233321
_Ico_22	-3.002522	1.058532	-2.84	0.005	-5.077913	-.9271319
_cons	-10.91868	4.746439	-2.30	0.021	-20.22469	-1.612661

25 . predict resid_lasgp13_m, rstandard
 (11107 missing values generated)

26 . xi: reg m_sgp13 totscale_ask7_math x_spd perfree perlep ln_salperpupil ln_enroll i.year i.co if mid
 i.year _Iyear_2009-2014 (naturally coded; _Iyear_2009 omitted)
 i.co _Ico_1-22 (_Ico_1 for co==11 omitted)

Source	SS	df	MS	Number of obs =	3583
Model	98374.8475	32	3074.21399	F(32, 3550) =	41.72
Residual	261586.199	3550	73.6862532	Prob > F =	0.0000
				R-squared =	0.2733
				Adj R-squared =	0.2667
Total	359961.046	3582	100.491638	Root MSE =	8.5841

m_sgp13	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
totscale_ask7_math	.2544613	.0126458	20.12	0.000	.2296675	.2792551
x_spd	-15.55212	3.403375	-4.57	0.000	-22.22489	-8.879357
perfree	.2404793	1.072054	0.22	0.823	-1.861424	2.342382
perlep	14.9964	3.354925	4.47	0.000	8.418628	21.57418
ln_salperpupil	.2921891	.5409886	0.54	0.589	-.7684908	1.352869
ln_enroll	-.4092107	.3074159	-1.33	0.183	-1.01194	.1935189
_Iyear_2010	.2522256	.5070537	0.50	0.619	-.7419204	1.246371
_Iyear_2011	.0400355	.5057189	0.08	0.937	-.9514934	1.031564
_Iyear_2012	.2487333	.5050543	0.49	0.622	-.7414926	1.238959
_Iyear_2013	.2729387	.5097047	0.54	0.592	-.7264048	1.272282
_Iyear_2014	.2628665	.5080297	0.52	0.605	-.733193	1.258926
_Ico_2	-5.635873	.940428	-5.99	0.000	-7.479707	-3.792039
_Ico_3	-2.043592	1.275445	-1.60	0.109	-4.544271	.4570874
_Ico_4	.7534989	.946379	0.80	0.426	-1.102003	2.609
_Ico_5	-.3382206	1.179102	-0.29	0.774	-2.650006	1.973564
_Ico_6	.1029984	1.049841	0.10	0.922	-1.955354	2.161351
_Ico_7	2.544463	1.206831	2.11	0.035	.1783102	4.910615
_Ico_8	-1.920014	1.009026	-1.90	0.057	-3.898343	.0583146
_Ico_9	-.4248184	.9857516	-0.43	0.667	-2.357515	1.507878
_Ico_10	-.0250091	1.048399	-0.02	0.981	-2.080535	2.030517
_Ico_11	-2.223031	1.168698	-1.90	0.057	-4.514418	.0683556
_Ico_12	.8713833	.9801562	0.89	0.374	-1.050343	2.793109
_Ico_13	.3185232	1.354162	0.24	0.814	-2.336491	2.973537
_Ico_14	-1.483319	1.239268	-1.20	0.231	-3.913068	.9464302
_Ico_15	-3.252389	1.23977	-2.62	0.009	-5.683123	-.821655
_Ico_16	-.5247385	.9519933	-0.55	0.582	-2.391248	1.34177
_Ico_17	-1.610386	.9565158	-1.68	0.092	-3.485762	.2649903
_Ico_18	-4.317993	1.276995	-3.38	0.001	-6.82171	-1.814276
_Ico_19	.8600207	1.07059	0.80	0.422	-1.239013	2.959055
_Ico_20	-.3372085	.9942273	-0.34	0.735	-2.286523	1.612106
_Ico_21	1.097297	1.107818	0.99	0.322	-1.074726	3.26932
_Ico_22	-1.701823	1.467346	-1.16	0.246	-4.578749	1.175103
_cons	-1.983849	5.910536	-0.34	0.737	-13.57224	9.60454

27 . predict resid_msgp13_m, rstandard
(11116 missing values generated)

28 . xi: reg la_sgp12 totscale_ask7_lal x_spd perfree perlep ln_salperpupil ln_enroll i.year i.co if mid
i.year _Iyear_2009-2014 (naturally coded; _Iyear_2009 omitted)
i.co _Ico_1-22 (_Ico_1 for co==11 omitted)

Source	SS	df	MS	Number of obs = 3600	
Model	107170.108	32	3349.06586	F(32, 3567) =	83.32
Residual	143370.392	3567	40.1935498	Prob > F =	0.0000
				R-squared =	0.4278
				Adj R-squared =	0.4226
Total	250540.5	3599	69.6139205	Root MSE =	6.3398

la_sgp12	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
totscale_ask7_lal	.3082857	.0132883	23.20	0.000	.2822324	.3343391
x_spd	-5.531693	2.511214	-2.20	0.028	-10.45525	-.608134
perfree	-1.375708	.8820028	-1.56	0.119	-3.104988	.3535724
perlep	22.44925	2.4231	9.26	0.000	17.69845	27.20006
ln_salperpupil	1.108402	.3965738	2.79	0.005	.3308675	1.885936
ln_enroll	-1.040644	.2252833	-4.62	0.000	-1.482341	-.5989475
_Iyear_2010	.2023418	.3721609	0.54	0.587	-.5273278	.9320114
_Iyear_2011	2.055896	.375395	5.48	0.000	1.319885	2.791906
_Iyear_2012	2.235299	.3762165	5.94	0.000	1.497678	2.97292
_Iyear_2013	1.355006	.3733622	3.63	0.000	.6229812	2.087031
_Iyear_2014	1.129784	.3735262	3.02	0.003	.3974375	1.86213
_Ico_2	.1874441	.6976208	0.27	0.788	-1.180332	1.55522

_Ico_3	3.425528	.9429142	3.63	0.000	1.576823	5.274233
_Ico_4	2.72105	.7072969	3.85	0.000	1.334303	4.107797
_Ico_5	3.450776	.8751356	3.94	0.000	1.734959	5.166592
_Ico_6	2.525973	.7784253	3.24	0.001	.9997699	4.052177
_Ico_7	4.025395	.8782005	4.58	0.000	2.303569	5.74722
_Ico_8	3.872296	.7467917	5.19	0.000	2.408114	5.336478
_Ico_9	3.216034	.7314264	4.40	0.000	1.781978	4.65009
_Ico_10	4.470731	.7805064	5.73	0.000	2.940447	6.001015
_Ico_11	1.710972	.8643889	1.98	0.048	.0162255	3.405718
_Ico_12	7.543739	.7270844	10.38	0.000	6.118196	8.969282
_Ico_13	5.656685	1.001071	5.65	0.000	3.693957	7.619414
_Ico_14	5.168665	.9194583	5.62	0.000	3.365948	6.971382
_Ico_15	5.192364	.9152632	5.67	0.000	3.397872	6.986856
_Ico_16	2.223557	.7061793	3.15	0.002	.8390016	3.608113
_Ico_17	1.574296	.7075338	2.23	0.026	.1870844	2.961507
_Ico_18	2.9531	.9434998	3.13	0.002	1.103247	4.802954
_Ico_19	2.267035	.7914784	2.86	0.004	.7152395	3.818831
_Ico_20	2.101241	.7356276	2.86	0.004	.6589479	3.543534
_Ico_21	3.399091	.819559	4.15	0.000	1.792239	5.005942
_Ico_22	2.966536	1.087443	2.73	0.006	.8344629	5.098609
_cons	-22.57916	4.844408	-4.66	0.000	-32.07725	-13.08107

29 . predict resid_lasgp12_m, rstandard
(11101 missing values generated)

30 . xi: reg m_sgp12 totscale_ask7_math x_spd perfree perlep ln_salperpupil ln_enroll i.year i.co if mid
i.year _Iyear_2009-2014 (naturally coded; _Iyear_2009 omitted)
i.co _Ico_1-22 (_Ico_1 for co==11 omitted)

Source	SS	df	MS	Number of obs = 3591		
Model	111001.774	32	3468.80544	F(32, 3558) =	50.47	
Residual	244558.488	3558	68.7348194	Prob > F =	0.0000	
				R-squared =	0.3122	
				Adj R-squared =	0.3060	
Total	355560.262	3590	99.0418556	Root MSE =	8.2906	

m_sgp12	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
totscale_ask7_math	.2397237	.0121966	19.66	0.000	.2158108	.2636367
x_spd	-1.347287	3.284184	-0.41	0.682	-7.786359	5.091785
perfree	-2.978281	1.035049	-2.88	0.004	-5.00763	-.9489323
perlep	19.62414	3.239612	6.06	0.000	13.27246	25.97582
ln_salperpupil	1.030951	.5198595	1.98	0.047	.0116979	2.050203
ln_enroll	-.7724376	.2961594	-2.61	0.009	-1.353097	-.1917783
_Iyear_2010	.2029531	.4888589	0.42	0.678	-.7555188	1.161425
_Iyear_2011	.0709492	.4875826	0.15	0.884	-.8850204	1.026919
_Iyear_2012	.209935	.4869711	0.43	0.666	-.7448355	1.164706
_Iyear_2013	.2625311	.4918627	0.53	0.594	-.7018302	1.226892
_Iyear_2014	.0850443	.4902696	0.17	0.862	-.8761934	1.046282
_Ico_2	-2.067313	.9082097	-2.28	0.023	-3.847978	-.2866493
_Ico_3	-1.551152	1.231829	-1.26	0.208	-3.966314	.86401
_Ico_4	.5244134	.9139839	0.57	0.566	-1.267572	2.316399
_Ico_5	3.724512	1.138783	3.27	0.001	1.491779	5.957245
_Ico_6	-1.831444	1.013922	-1.81	0.071	-3.819371	.1564839
_Ico_7	6.083718	1.165458	5.22	0.000	3.798685	8.368751
_Ico_8	-2.499604	.9744478	-2.57	0.010	-4.410137	-.5890718
_Ico_9	1.711365	.9519672	1.80	0.072	-.1550911	3.577821
_Ico_10	.8912589	1.012447	0.88	0.379	-1.093775	2.876293
_Ico_11	-1.116472	1.128695	-0.99	0.323	-3.329426	1.096482
_Ico_12	1.503232	.9465999	1.59	0.112	-.3527011	3.359165
_Ico_13	4.274475	1.307812	3.27	0.001	1.710338	6.838611
_Ico_14	1.146716	1.19672	0.96	0.338	-1.199611	3.493043
_Ico_15	.5046007	1.197359	0.42	0.673	-1.842978	2.852179
_Ico_16	.879744	.9193947	0.96	0.339	-.9228497	2.682338
_Ico_17	.8495178	.9204593	0.92	0.356	-.9551631	2.654199

_Ico_18	-2.219409	1.233341	-1.80	0.072	-4.637536	.198717
_Ico_19	1.226304	1.033993	1.19	0.236	-.800974	3.253582
_Ico_20	.7119706	.9602183	0.74	0.458	-1.170663	2.594604
_Ico_21	2.096199	1.069781	1.96	0.050	-.0012473	4.193645
_Ico_22	-1.436257	1.417111	-1.01	0.311	-4.214689	1.342175
_cons	-6.356327	5.664831	-1.12	0.262	-17.46297	4.750317

```
31 . predict resid_msgp12_m, rstandard
    (11110 missing values generated)
```

```
32 .
33 .
```

```
34 . label var resid_lasgp13_e "LA 2013 Elem"
```

```
35 . label var resid_msgp13_e "Math 2013 Elem"
```

```
36 . label var resid_lasgp12_e "LA 2012 Elem"
```

```
37 . label var resid_msgp12_e "Math 2012 Elem"
```

```
38 .
39 .
```

```
40 . label var resid_lasgp13_m "LA 2013 Middle"
```

```
41 . label var resid_msgp13_m "Math 2013 Middle"
```

```
42 . label var resid_lasgp12_m "LA 2012 Middle"
```

```
43 . label var resid_msgp12_m "Math 2012 Middle"
```

```
44 .
45 .
```

```
46 . graph twoway scatter resid_msgp13_e resid_lasgp13_e if year==2013 & charter==0 & city=="NEWARK", ms(oh)
> year==2013 & charter==1 & city=="NEWARK", mlabel(schoolname) || lfit resid_msgp13_e resid_lasgp13_e if
> ytitle(Math 2013) legend(label(1 "District")label(2 "Charter")label(3 "Statewide Best Fit")) title(New
```

```
47 . graph twoway scatter resid_msgp12_e resid_lasgp12_e if year==2012 & charter==0 & city=="NEWARK", ms(oh)
> year==2012 & charter==1 & city=="NEWARK", mlabel(schoolname) || lfit resid_msgp12_e resid_lasgp12_e if
> ytitle(Math 2012) legend(label(1 "District")label(2 "Charter")label(3 "Statewide Best Fit")) title(New
```

```
48 . graph twoway scatter resid_msgp13_e resid_lasgp13_e if year==2013 & charter==0, ms(oh) || scatter resi
> ter==1, || lfit resid_msgp13_e resid_lasgp13_e if year==2013, xline(0) yline(0) ytitle(Math 2013) leg
> 3 "Statewide Best Fit") title(Statewide Performance Profile 2013 - ES)
```

```
49 . graph twoway scatter resid_msgp12_e resid_lasgp12_e if year==2012 & charter==0, ms(oh) || scatter resi
> ter==1, || lfit resid_msgp12_e resid_lasgp12_e if year==2012, xline(0) yline(0) ytitle(Math 2012) leg
> 3 "Statewide Best Fit") title(Statewide Performance Profile 2012 - ES)
```

```
50 .
```

```
51 . graph twoway scatter resid_msgp13_m resid_lasgp13_m if year==2013 & charter==0 & city=="NEWARK", ms(oh)
> year==2013 & charter==1 & city=="NEWARK", mlabel(schoolname) || lfit resid_msgp13_m resid_lasgp13_m if
> ytitle(Math 2013) legend(label(1 "District")label(2 "Charter")label(3 "Statewide Best Fit")) title(New
```

```
52 . graph twoway scatter resid_msgp12_m resid_lasgp12_m if year==2012 & charter==0 & city=="NEWARK", ms(oh)
> year==2012 & charter==1 & city=="NEWARK", mlabel(schoolname) || lfit resid_msgp12_m resid_lasgp12_m if
> ytitle(Math 2012) legend(label(1 "District")label(2 "Charter")label(3 "Statewide Best Fit")) title(New
```

```

53 . graph twoway scatter resid_msgp13_m resid_lasgp13_m if year==2013 & charter==0, ms(oh) || scatter resi
> ter==1, || lfit resid_msgp13_m resid_lasgp13_m if year==2013, xline(0) yline(0) ytitle(Math 2013) leg
> 3 "Statewide Best Fit")) title(Statewide Performance Profile 2013 - MS)

54 . graph twoway scatter resid_msgp12_m resid_lasgp12_m if year==2012 & charter==0, ms(oh) || scatter resi
> ter==1, || lfit resid_msgp12_m resid_lasgp12_m if year==2012, xline(0) yline(0) ytitle(Math 2012) leg
> 3 "Statewide Best Fit")) title(Statewide Performance Profile 2012 - MS)

55 .
56 . xi

57 .
58 . collapse (mean) resid_lasgp13_e resid_msgp13_e resid_lasgp12_e resid_msgp12_e resid_lasgp13_m resid_ms
> erlep x_sped rowtot salary_perpupil la_sgp12 m_sgp12 la_sgp13 m_sgp13 , by(codistsch )

59 . sort codistsch

60 . egen rating_mean=rowmean(resid_lasgp13_e resid_msgp13_e resid_lasgp12_e resid_msgp12_e resid_lasgp13_m
(820 missing values generated)

61 . drop if rating_mean==.
(820 observations deleted)

62 . merge codistsch using schoolname.dta
(note: you are using old merge syntax; see [D] merge for new syntax)

63 . drop _merge

64 .
65 . export excel using "NJ Best Schools.xlsx", sheet("School Ratings") sheetreplace firstrow(var)
file NJ Best Schools.xlsx saved

66 .
67 .
68 .
69 . log close
      name: <unnamed>
      log: F:\Current Work\al_NJ 2013 Panel Data\NJ Data\nj_efficiency.smcl
      log type: smcl
      closed on: 30 Jan 2015, 09:16:44

```
