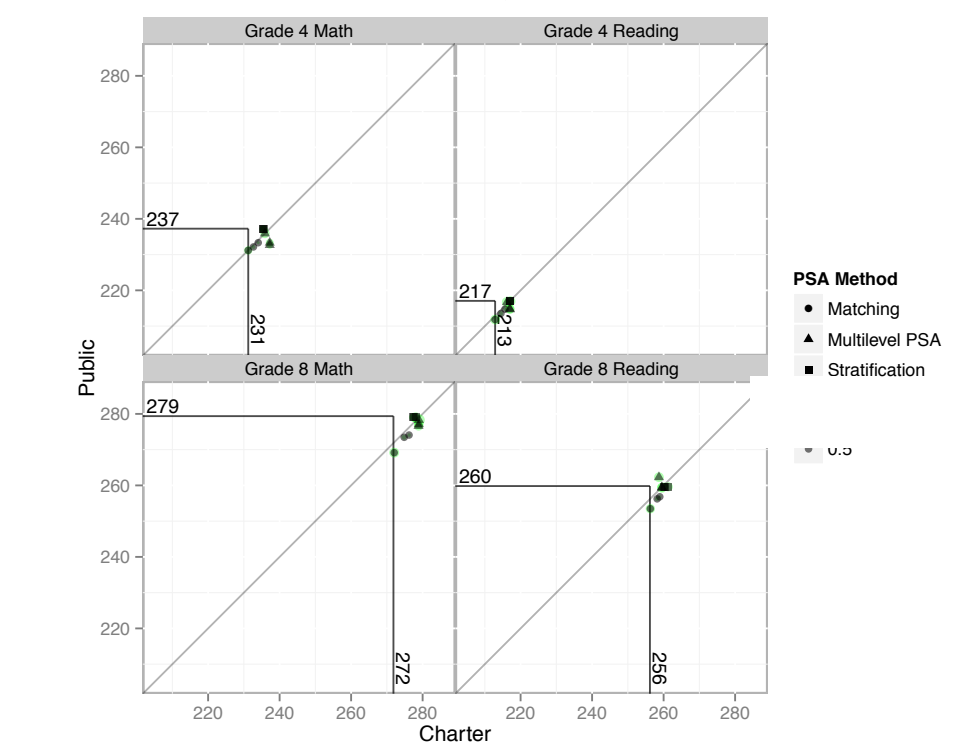
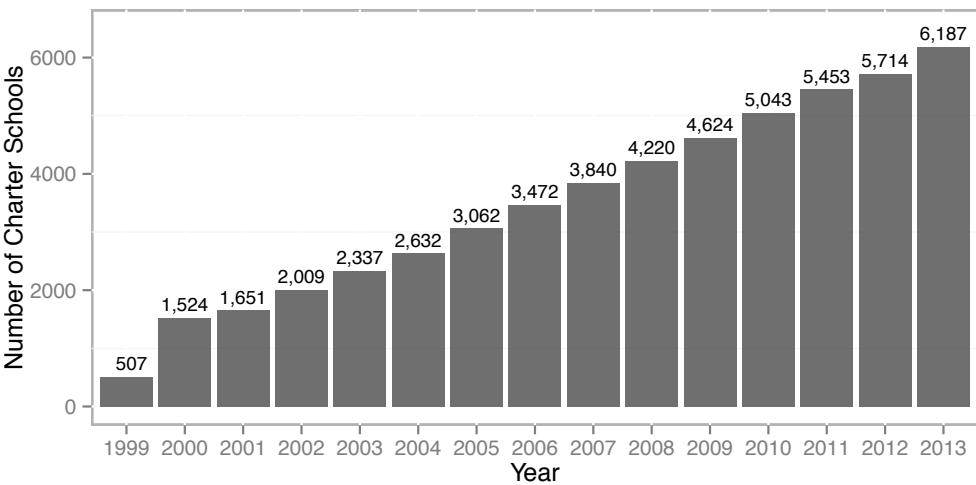


# A National Study Comparing Charter and Traditional Public Schools Using Propensity Score Analysis

Scatter Plot of Adjusted Means



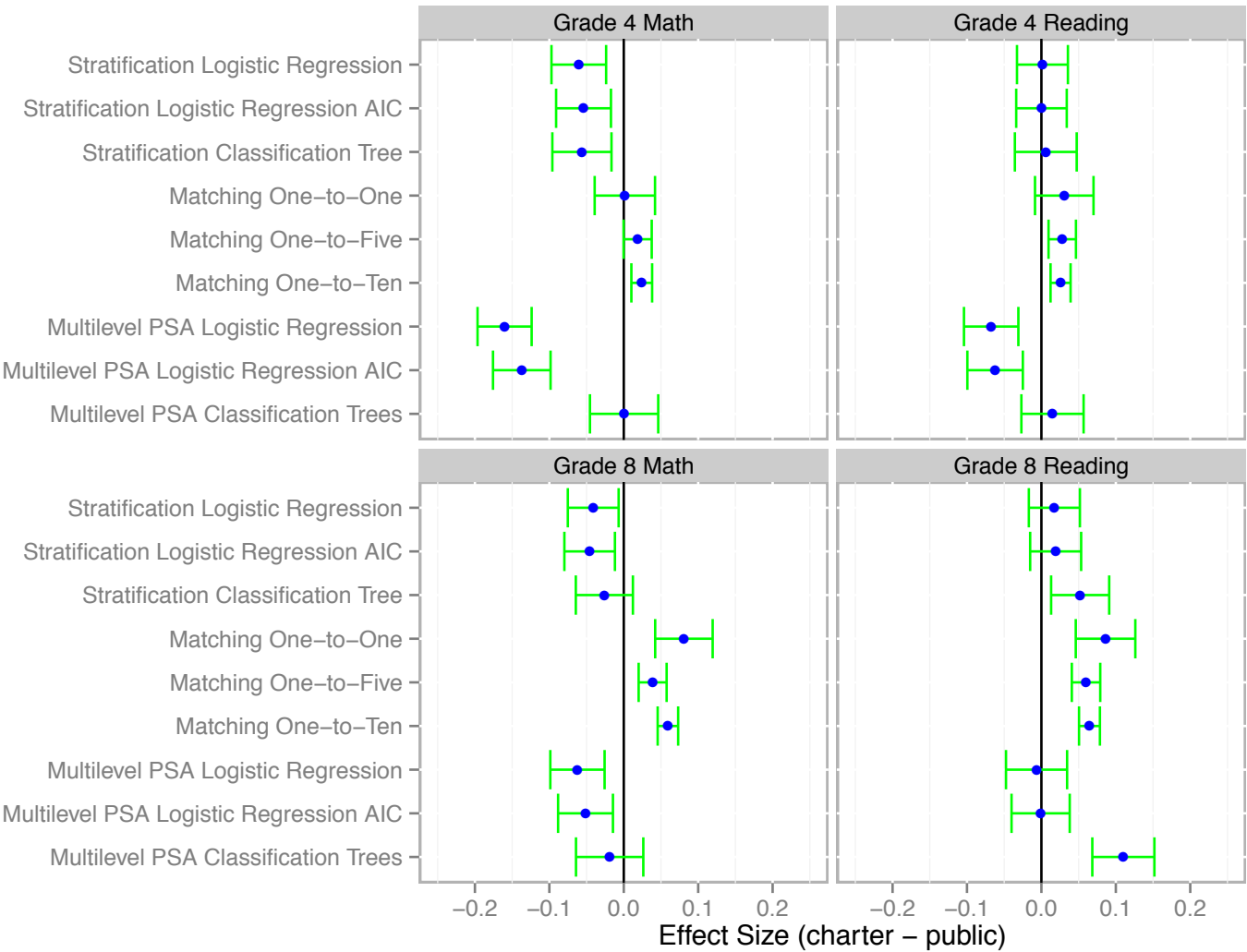
Number of Charters Schools by Year



## Overall Results

By Jason M. Bryer ([jason@bryer.org](mailto:jason@bryer.org)) in support of a dissertation submitted to the University at Albany in partial fulfillment of the degree of Doctor of Philosophy  
Data Source: National Assessment of Educational Progress (NAEP; National Center for Educational Statistics, 2009)  
Website: [www.github.com/jbryer/Dissertation](http://www.github.com/jbryer/Dissertation)

Overall Effect Size (Standardized Mean Difference)



Method	Charter	Public	ATE	95% CI	
Grade 4 Math					
Stratification Logistic Regression	235.37	237.09	-0.06	-2.77	-0.68
Stratification Logistic Regression AIC	235.55	237.09	-0.05	-2.59	-0.49
Stratification Classification Tree	235.48	237.09	-0.06	-2.74	-0.47
Matching One-to-One	231.22	231.18	0.00	-1.12	1.20
Matching One-to-Five	232.67	232.14	0.02	-0.01	1.07
Matching One-to-Ten	234.02	233.33	0.02	0.29	1.09
Multilevel PSA Logistic Regression	237.24	232.67	-0.16	-3.53	-5.60
Multilevel PSA Logistic Regression AIC	237.24	233.33	-0.14	-2.80	-5.01
Multilevel PSA Classification Trees	235.90	235.91	0.00	1.32	-1.30
Grade 4 Reading					
Stratification Logistic Regression	216.96	216.92	0.00	-1.13	1.23
Stratification Logistic Regression AIC	216.92	216.92	0.00	-1.17	1.17
Stratification Classification Tree	217.12	216.92	0.01	-1.23	1.63
Matching One-to-One	212.88	211.82	0.03	-0.30	2.41
Matching One-to-Five	214.51	213.54	0.03	0.33	1.60
Matching One-to-Ten	215.63	214.75	0.03	0.42	1.35
Multilevel PSA Logistic Regression	217.01	214.69	-0.07	-1.07	-3.58
Multilevel PSA Logistic Regression AIC	216.99	214.85	-0.06	-0.86	-3.42
Multilevel PSA Classification Trees	216.19	216.71	0.01	1.95	-0.93
Grade 8 Math					
Stratification Logistic Regression	277.58	279.05	-0.04	-2.69	-0.25
Stratification Logistic Regression AIC	277.41	279.06	-0.05	-2.86	-0.43
Stratification Classification Tree	278.11	279.04	-0.03	-2.31	0.44
Matching One-to-One	272.05	269.16	0.08	1.51	4.28
Matching One-to-Five	274.85	273.46	0.04	0.72	2.06
Matching One-to-Ten	276.21	274.08	0.06	1.63	2.62
Multilevel PSA Logistic Regression	278.86	276.63	-0.06	-0.92	-3.54
Multilevel PSA Logistic Regression AIC	278.95	277.11	-0.05	-0.52	-3.16
Multilevel PSA Classification Trees	278.98	278.30	-0.02	0.94	-2.30
Grade 8 Reading					
Stratification Logistic Regression	260.20	259.63	0.02	-0.55	1.69
Stratification Logistic Regression AIC	260.25	259.63	0.02	-0.49	1.74
Stratification Classification Tree	261.30	259.60	0.05	0.43	2.97
Matching One-to-One	256.29	253.48	0.09	1.51	4.12
Matching One-to-Five	258.19	256.24	0.06	1.33	2.58
Matching One-to-Ten	258.93	256.82	0.06	1.65	2.57
Multilevel PSA Logistic Regression	259.51	259.30	-0.01	1.13	-1.55
Multilevel PSA Logistic Regression AIC	259.52	259.49	-0.00	1.24	-1.31
Multilevel PSA Classification Trees	258.70	262.29	0.11	4.96	2.23

Comparison of NAPCS Quality of Charter Law Scores & NAEP Charter School Effect Sizes

