

Table Appendix

Table A: Parametric Tests (OLS)

| Reading Score | | | | |
|----------------------|-----------------|------------------|------------------|------------------|
| AYP history | Linear | Quadratic | Cubic | Quartic |
| Aggregate | 0.0053 (0.0078) | 0.0127 (0.0102) | -0.0003 (0.0127) | 0.0044 (0.0152) |
| Threat SES | 0.0419 (0.0180) | 0.0438 (0.0232) | 0.0284 (0.0288) | 0.0320 (0.0346) |
| Threat transfer | 0.0108 (0.0173) | -0.0180 (0.0220) | -0.0330 (0.0274) | -0.0450 (0.0325) |
| Mid. (trsf., SES) | 1 significant | 0 significant | 0 significant | 0 significant |
| Corrective | 0.0133 (0.0220) | 0.0251 (0.0293) | 0.0480 (0.0375) | 0.0144 (0.0455) |
| Restr. Plan | 0.0022 (0.0270) | -0.0180 (0.0346) | -0.0246 (0.0432) | 0.0111 (0.0507) |
| Restructuring | 0.0419 (0.0221) | 0.0672 (0.0296) | 0.0408 (0.0367) | 0.0923 (0.0458) |

| Math Score | | | | |
|-------------------|-----------------|-----------------|------------------|------------------|
| AYP history | Linear | Quadratic | Cubic | Quartic |
| Aggregate | 0.0250 (0.0079) | 0.0207 (0.0102) | 0.0611 (0.0326) | 0.0135 (0.0152) |
| Threat SES | 0.0474 (0.0203) | 0.0558 (0.0262) | 0.0066 (0.0305) | 0.0572 (0.0392) |
| Threat transfer | 0.0179 (0.0192) | 0.0086 (0.0245) | -0.0314 (0.0450) | -0.0275 (0.0361) |
| Mid. (trsf., SES) | 0 significant | 0 significant | 0 significant | 0 significant |
| Corrective | 0.0404 (0.0207) | 0.0377 (0.0276) | 0.0007 (0.0351) | -0.0291 (0.0425) |
| Restr. Plan | 0.0299 (0.0259) | 0.0519 (0.0332) | 0.0503 (0.0412) | 0.0621 (0.0486) |
| Restructuring | 0.0696 (0.0257) | 0.0482 (0.0345) | 0.0573 (0.0431) | 0.0755 (0.0539) |

Note: Standard errors in parentheses. Unit of observation is school/year. Dependent variable is mean year-over-year change in standardized test score in the indicated subject between the year of AYP status determination and the following year. Included regressors are treatment indicator, school score, treatment indicator x school score (linear, quadratic, cubic, and quartic terms), minority (status or percent), LEP (status or percent), female (status or percent), disabled (status or percent), school population.

Table B1: RD estimates of the impact of exposure to the first NCLB sanction/threat of second

| First sanction is transfers (second SES) | Reading (n=1,486) | Math (n=1,486) |
|---|---------------------|---------------------|
| At optimal bandwidth | 0.0178 (0.0124) | 0.0144 (0.0181) |
| Half optimal bandwidth | 0.0139 (0.0176) | 0.0076 (0.0254) |
| Twice optimal bandwidth | 0.0185 (0.0106) | 0.0256 (0.015) |
| At optimal bandwidth, including transferred students | 0.0194 (0.0105) | 0.0092 (0.0200) |
| First sanction is SES (second transfers) | Reading (n=177) | Math (n=177) |
| At optimal bandwidth | -0.0064 (0.0377) | -0.0069 (0.0337) |
| Half optimal bandwidth | -0.0291 (0.0445) | -0.0184 (0.0423) |
| Twice optimal bandwidth | -0.0126 (0.0353) | 0.0069 (0.0306) |
| At optimal bandwidth, including transferred students | 0.0055 (0.0381) | -0.0056 (0.0314) |
| <p>Note: Standard errors in parentheses. Unit of observation is school/year, weighted by number of students used to compute dependent variable. Dependent variable is mean year-over-year change in standardized test score in the indicated subject between the year of AYP status determination and the following year. Bandwidth determination is by the Imbens-Kalyanaraman algorithm. Specifications factor out school-level aggregate characteristics including percent minority, percent limited English proficient, and percent free/reduced lunch.</p> <p>*** denotes an estimate significant at the 1% level; ** the 5% level; * the 10% level.</p> | | |

Table B2: RD estimates of the impact of exposure to the second NCLB sanction/threat of third

| Second sanction is SES (transfers in place) | Reading (n=727) | Math (n=727) |
|---|-----------------------|----------------------|
| At optimal bandwidth | -0.0244 (0.0268) | -0.0219 (0.0368) |
| Half optimal bandwidth | -0.0519 (0.0398) | -0.064 (0.0546) |
| Twice optimal bandwidth | -0.0234 (0.0217) | -0.0409 (0.0394) |
| At optimal bandwidth, including transferred students | -0.0191 (0.0259) | -0.0384 (0.0473) |
| Second sanction is transfers (SES in place) | Reading (n=310) | Math (n=310) |
| At optimal bandwidth | -0.0289 (0.0244) | -0.0442 (0.0243) |
| Half optimal bandwidth | 0.005 (0.0327) | -0.0495 (0.029) |
| Twice optimal bandwidth | -0.0429** (0.0208) | -0.0394 (0.0234) |
| At optimal bandwidth, including transferred students | -0.0495** (0.0216) | -0.0528* (0.0261) |
| <p>Note: Standard errors in parentheses. Unit of observation is school/year, weighted by number of students used to compute dependent variable. Dependent variable is mean year-over-year change in standardized test score in the indicated subject between the year of AYP status determination and the following year. Bandwidth determination is by the Imbens-Kalyanaraman algorithm. Specifications factor out school-level aggregate characteristics including percent minority, percent limited English proficient, and percent free/reduced lunch.</p> <p>*** denotes an estimate significant at the 1% level; ** the 5% level; * the 10% level.</p> | | |

Table B3: RD estimates of the impact of higher order sanctions and threats

| Corrective action, threat of restructuring plan | Reading (n=549) | Math (n=549) |
|--|-----------------------|----------------------|
| At optimal bandwidth | 0.035 (0.0261) | 0.0231 (0.0247) |
| Half optimal bandwidth | 0.0337 (0.0392) | -0.0065 (0.0319) |
| Twice optimal bandwidth | 0.0148 (0.0213) | 0.0311 (0.0215) |
| Restructuring plan, threat of restructuring | Reading (n=442) | Math (n=442) |
| At optimal bandwidth | -0.0558** (0.0288) | 0.0278 (0.0258) |
| Half optimal bandwidth | -0.052 (0.0466) | 0.0486 (0.0339) |
| Twice optimal bandwidth | -0.0937* (0.0516) | 0.0197 (0.0238) |
| Restructuring | Reading (n=367) | Math (n=367) |
| At optimal bandwidth | 0.0264* (0.0144) | 0.0547** (0.0263) |
| Half optimal bandwidth | 0.0562*** (0.0202) | 0.0664* (0.035) |
| Twice optimal bandwidth | 0.0205 (0.0132) | 0.0609** (0.0242) |
| Note: Standard errors in parentheses. Unit of observation is school/year, weighted by number of students used to compute dependent variable. Dependent variable is mean year-over-year change in standardized test score in the indicated subject between the year of AYP status determination and the following year. Bandwidth determination is by the Imbens-Kalyanaraman algorithm. Specifications factor out school-level aggregate characteristics including percent minority, percent limited English proficient, and percent free/reduced lunch. *** denotes an estimate significant at the 1% level; ** the 5% level; * the 10% level. | | |

Table C: RD Results with Free and reduced lunch eligible students only

| | Std. Reading | Bandwidth | N | Std. Math | Bandwidth | N |
|--|-----------------------|-----------|------|----------------------------|-----------|------|
| All Schools | -0.0025 (0.0114) | 0.2345 | 8244 | -0.0344*** (0.0095) | 0.2377 | 8245 |
| | -0.0077 (0.0172) | 0.1172 | 8244 | -0.0379 *** (0.0134) | 0.1188 | 8245 |
| | 0.0071 (0.0093) | 0.4690 | 8244 | -0.0310*** (0.0081) | 0.4753 | 8245 |
| SES w/ 2 more failures | -0.0181 (0.0195) | 0.1967 | 955 | -0.0233 (0.0191) | 0.3196 | 955 |
| | -0.0232 (0.0266) | 0.0984 | 955 | -0.0245 (0.0234) | 0.1598 | 955 |
| | -0.0272* (0.0165) | 0.3934 | 955 | -0.0229 (0.0172) | 0.6391 | 955 |
| Transfer w/ 2 more failures | 0.0150 (0.0267) | 0.2931 | 3230 | -0.0674*** (0.0222) | 0.2015 | 3231 |
| | 0.0390 (0.0357) | 0.1466 | 3230 | -0.0586* (0.0313) | 0.1008 | 3231 |
| | 0.0079 (0.0238) | 0.5862 | 3230 | -0.0620*** (0.0190) | 0.4031 | 3231 |
| SES w/ 1 more failure | 0.0040 (0.0454) | 0.2267 | 176 | -0.0083 (0.0357) | 0.4451 | 176 |
| | 0.0315 (0.0584) | 0.1134 | 176 | -0.0003 (0.0394) | 0.2226 | 176 |
| | -0.0045 (0.0405) | 0.4535 | 176 | -0.0030 (0.0332) | 0.8903 | 176 |
| Transfer w/ 1 more failure | -0.0943** (0.0368) | 0.2364 | 1484 | -0.0286 (0.0264) | 0.2105 | 1484 |
| | -0.0752 (0.0495) | 0.1182 | 1484 | -0.0047 (0.0369) | 0.1053 | 1484 |
| | -0.0762* (0.0324) | 0.4727 | 1484 | -0.0358 (0.0236) | 0.4211 | 1484 |
| SES w/ 1 more failure, sanctioned w/ transfer | 0.0393 (0.0501) | 0.2017 | 725 | -0.0437 (0.0382) | 0.1894 | 725 |
| | 0.0838 (0.0653) | 0.1009 | 725 | -0.0282 (0.0523) | 0.0947 | 725 |
| | 0.0451 (0.0431) | 0.4034 | 725 | -0.0477 (0.0329) | 0.3787 | 725 |
| Transfer w/ 1 more failure, sanctioned w/SES | 0.0357 (0.0263) | 0.3088 | 310 | 0.0420 (0.0341) | 0.2355 | 310 |
| | -0.0027 (0.0349) | 0.1544 | 310 | 0.0090 (0.0491) | 0.1178 | 310 |
| | 0.0519** (0.0233) | 0.6176 | 310 | 0.0339 (0.0283) | 0.4711 | 310 |
| Corrective action w/ 1 more failure | -0.0172 (0.0270) | 0.5091 | 549 | -0.0371* (0.0206) | 0.8848 | 549 |

| | | | | | | |
|--|----------------------|--------|-----|-----------------------|--------|-----|
| | -0.0476 (0.0333) | 0.2546 | 549 | -0.0404* (0.0232) | 0.4424 | 549 |
| | -0.0107 (0.0246) | 1.0182 | 549 | -0.0369* (0.0206) | 1.7697 | 549 |
| Plan for restructuring w/ 1 more failure | 0.0736** (0.0298) | 0.2902 | 441 | -0.0401 (0.0261) | 0.2776 | 441 |
| | 0.0669 (0.0422) | 0.1451 | 441 | -0.0575* (0.0346) | 0.1388 | 441 |
| | 0.0588** (0.0270) | 0.5804 | 441 | -0.0332 (0.0239) | 0.5552 | 441 |
| Restructuring w/ 1 more failure | -0.0177 (0.0149) | 0.5295 | 367 | -0.0479* (0.0269) | 0.4979 | 367 |
| | -0.0313* (0.0165) | 0.2648 | 367 | -0.0547* (0.0317) | 0.2490 | 367 |
| | -0.0172 (0.0154) | 1.0591 | 367 | -0.0531** (0.0264) | 0.9959 | 367 |

Note: Standard errors in parentheses. Unit of observation is school/year, weighted by number of students used to compute dependent variable. Dependent variable is mean year-over-year change in standardized test score in the indicated subject between the year of AYP status determination and the following year. Bandwidth determination is by the Imbens-Kalyanaraman algorithm. Specifications factor out school-level aggregate characteristics including percent minority, percent limited English proficient, and percent free/reduced lunch. *** denotes an estimate significant at the 1% level; ** the 5% level; * the 10% level.

Table D: RD estimates & Falsification Tests @ 0.15 and -0.15

| | Reading | Band-width | Cut (denom %) | Math | Band-width | Cut (denom %) |
|---|-----------------------|------------|----------------|-----------------------|------------|----------------|
| All Schools | 0.00002 (0.0056) | 0.4178 | 0 (85.40%) | -0.0180* (0.0095) | 0.2604 | 0 (82.75%) |
| | 0.0607 (0.05019) | 0.2310 | 0.15 (11.7%) | 1.0900*** (0.3391) | 0.1840 | 0.15 (3.70%) |
| | -0.0097 (0.0279) | 0.3123 | -0.15 (30.05%) | -0.1302 (0.1231) | 0.2547 | -0.15 (14.19%) |
| SES w/ 2 more failures | -0.0161 (0.0136) | 0.3063 | 0 (96.06%) | -0.0285* (0.0163) | 0.2400 | 0 (95.84%) |
| | 0.8443 (0.5371) | 0.1925 | 0.15 (2.27%) | 0.4196 (0.2702) | 0.2418 | 0.15 (5.60%) |
| | -0.0319 (0.0508) | 0.4140 | -0.15 (57.91%) | -0.0828 (0.0725) | 0.3278 | -0.15 (49.89%) |
| Transfer w/ 2 more failures | -0.0203 (0.0140) | 0.2285 | 0 (67.40%) | -0.0473** (0.0204) | 0.2468 | 0 (68.34%) |
| | 0.8638 (0.1395) | 0.2183 | 0.15 (5.96%) | 13.2603 (5.1727) | 0.1565 | 0.15 (0.41%) |
| | 0.0360 (0.0267) | 0.3942 | -0.15 (52.62%) | 0.0400 (0.0528) | 0.4443 | -0.15 (55.60%) |
| SES w/ 1 more failure | 0.0064 (0.0377) | 0.3964 | 0 (98.47%) | 0.0069 (0.0337) | 0.2204 | 0 (95.31%) |
| | -0.3334 (0.3781) | 0.2209 | 0.15 (14.39%) | -0.3278 (0.3737) | 0.2304 | 0.15 (16.51%) |
| | 0.6278 ** (0.2702) | 0.2432 | -0.15 (20.05%) | 0.5864 (0.2433) | 0.2383 | -0.15 (18.73%) |
| Transfer w/ 1 more failure | -0.0178 (0.0124) | 0.2309 | 0 (87.70%) | -0.0144 (0.0181) | 0.1961 | 0 (86.52%) |
| | 0.0487 (0.0463) | 0.3059 | 0.15 (31.60%) | -0.0043 (0.0642) | 0.3330 | 0.15 (35.52%) |
| | -0.2575 (0.0848) | 0.2659 | -0.15 (19.85%) | -0.0678 (0.0720) | 0.3634 | -0.15 (30.89%) |
| SES w/ 1 more failure, sanctioned w/ transfer | 0.0244 (0.0268) | 0.2177 | 0 (79.11%) | 0.0219 (0.0368) | 0.1882 | 0 (77.38%) |
| | -0.0069 (0.0385) | 0.6423 | 0.15 (73.86%) | 0.0898 (0.1857) | 0.3744 | 0.15 (60.38%) |
| | 0.1114 (0.2058) | 0.2520 | -0.15 (10.86%) | -0.1249 (0.6859) | 0.2037 | -0.15 (5.92%) |
| Transfer w/ 1 more failure, sanctioned w/SES | 0.0289 (0.0244) | 0.2432 | 0 (92.22%) | 0.0442 (0.0243) | 0.5091 | 0 (94.13%) |
| | -0.0463 (0.0771) | 0.3324 | 0.15 (40.63%) | -0.1315* (0.0741) | 0.4246 | 0.15 (49.96%) |
| | -0.1208 (0.1029) | 0.3466 | -0.15 (27.36%) | 0.0772 (0.1113) | 0.3378 | -0.15 (26.71%) |
| Corrective action w/ 1 more failure | -0.035 (0.0261) | 0.2270 | 0 (91.59%) | -0.0231 (0.0247) | 0.2377 | 0 (92.23%) |
| | 0.0375 (0.0516) | 0.4729 | 0.15 (54.44%) | 0.0381 (0.0632) | 0.4418 | 0.15 (52.44%) |

| | | | | | | |
|---|----------------------|--------|----------------|-----------------------|--------|----------------|
| | 0.1139 (0.1799) | 0.2906 | -0.15 (17.31%) | 0.1322 (0.1058) | 0.3228 | -0.15 (19.50%) |
| Plan for restructuring w/ 1 more failure | 0.0558** (0.0288) | 0.2758 | 0 (86.61%) | -0.0278 (0.0258) | 0.3578 | 0 (88.03%) |
| | 0.0649 (0.0936) | 0.4459 | 0.15 (55.67%) | -1.8563 (1.5760) | 0.4998 | 0.15 (-5.70%) |
| | 0.3918 (0.3351) | 0.3429 | -0.15 (12.61%) | 0.4226* (0.2199) | 0.2473 | -0.15 (10.72%) |
| Restructuring w/ 1 more failure | -0.0264* (0.0144) | 0.2825 | 0 (85.15%) | -0.0547** (0.0263) | 0.3334 | 0 (86.62%) |
| | 0.0479 (0.0819) | 0.2699 | 0.15 (30.32%) | 0.1251** (0.0570) | 0.5105 | 0.15 (60.30%) |
| | -0.2930 (0.4069) | 0.2213 | -0.15 (7.63%) | -0.0344 (0.3138) | 0.2001 | -0.15 (6.70%) |

Note: Standard errors in parentheses. Unit of observation is school/year, weighted by number of students used to compute dependent variable. Dependent variable is mean year-over-year change in standardized test score in the indicated subject between the year of AYP status determination and the following year. Bandwidth determination is by the Imbens-Kalyanaraman algorithm. Specifications factor out school-level aggregate characteristics including percent minority, percent limited English proficient, and percent free/reduced lunch. *** denotes an estimate significant at the 1% level; ** the 5% level; * the 10% level.

Table E: Restructuring Sample Analysis

| Sanction (threat) | Reading | Math |
|------------------------------------|-------------------|-------------------|
| Aggregate | -0.0133 (0.0153) | 0.0058 (0.0373) |
| Transfer(SES) | -0.0177 (0.0302) | -0.0234 (0.0352) |
| SES (Corrective Action) | 0.0120 (0.0240) | 0.0040 (0.0391) |
| Restructuring Plan (Restructuring) | -0.0805 (0.0681) | -0.0027 (0.0946) |
| Restructuring | 0.0264** (0.0144) | 0.0547** (0.0263) |

Note: Standard error in parenthesis. Unit of observation is school/year, weighted by number of students used to compute dependent variable. Dependent variable is mean year-over-year change in standardized test score in the indicated subject between the year of AYP status determination and the following year. Bandwidth determination is by the Imbens-Kalyanaraman algorithm. Specifications factor out school-level aggregate characteristics including percent minority, percent limited English proficient, and percent free/reduced lunch. RD estimates restricted to school sample that is eventually threatened with restructuring. ** denotes an estimate significant at the 5% level.