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Table H-1 : Effects of Attendance on Individual Mathematics Test Scores 1996-1999

	American Indian	Asian	Hispanic	African American	Caucasian
1996					
Mean Test Score	0.3479 * (4.848)	0.4326 * (5.358)	0.4493 * (4.632)	0.5200 * (7.063)	0.4025 * (29.245)
High Achiever	4.7609 (3.683)	3.8780 * (4.854)	16.4827 * (10.991)	10.4537 * (8.075)	3.8433 * (258.794)
Low Achiever	-1.8763 * (18.382)	-3.1325 * (18.250)	-2.0592 * (12.643)	-1.3518 * (23.922)	-3.5736 * (376.812)
Pass Rate	1.9240 * (18.382)	1.7150 * (18.250)	2.2370 * (12.643)	3.0251 * (23.922)	0.8332 * (376.812)
1997					
Mean Test Score	0.2759 * (3.402)	0.2151 * (4.026)	0.2979 * (3.365)	0.3606 * (7.496)	0.4029 * (27.928)
High Achiever	3.9861 (2.201)	6.6348 * (10.865)	5.4413 (2.057)	10.5758 * (8.935)	4.6013 * (246.158)
Low Achiever	-1.3757 * (7.073)	-1.2791 * (7.499)	-2.4221 * (15.763)	-1.0963 * (28.493)	-4.5141 * (395.373)
Pass Rate	1.4751 * (5.763)	1.1912 * (9.706)	2.8873 * (11.205)	3.4252 * (26.063)	1.3101 * (415.233)
1998					
Mean Test Score	0.0220 (0.449)	0.1675 * (3.455)	0.1858 * (2.684)	0.4322 * (7.706)	0.1046 * (14.315)
High Achiever	1.1156 (0.960)	1.5777 (3.204)	0.5635 (0.132)	6.9481 * (8.395)	1.2400 * (96.170)
Low Achiever	-0.2285 (0.994)	-1.1255 * (10.957)	-0.6195 * (4.143)	-1.2415 * (40.923)	-0.9424 * (93.955)
Pass Rate	0.0633 (0.052)	0.9354 * (12.526)	0.7469 (3.236)	2.7442 * (32.419)	0.2639 * (107.333)
1999					
Mean Test Score	0.1803 * (3.508)	0.2844 * (6.586)	0.4395 * (5.830)	0.3191 * (7.291)	0.1537 * (19.974)
High Achiever	4.7644 * (5.568)	4.4574 * (14.327)	7.0113 * (7.377)	2.7823 (2.956)	1.9133 * (155.054)
Low Achiever	-0.6141 * (6.205)	-1.6374 * (22.460)	-1.7597 * (22.627)	-0.7662 * (27.720)	-1.2822 * (185.159)
Pass Rate	0.9773 * (8.043)	1.0451 * (18.899)	2.4154 * (17.796)	1.0547 * (9.902)	0.3696 * (178.555)

Elasticities computed at the means

T-statistics or Wald Chi-Square statistics of underlying coefficients in parenthesis

* Significant at the 95% significance level

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1996, 1997, 1998 and 1999

Table H-2 : Effects of Attendance on Individual Reading Test Scores 1996-1999

	American Indian	Asian	Hispanic	African American	Caucasian
1996					
Mean Test Score	0.3622 * (4.039)	0.6890 * (6.689)	0.3090 * (2.506)	0.6052 * (6.666)	0.3803 * (20.013)
High Achiever	6.5148 * (7.553)	6.4632 * (8.448)	1.6254 (0.383)	6.7733 * (5.826)	2.4071 * (95.112)
Low Achiever	-1.2233 * (7.323)	-4.4765 * (29.011)	-1.2594 * (3.959)	-1.8504 * (31.246)	-2.6881 * (206.824)
Pass Rate	1.2118 * (5.436)	2.9210 * (21.668)	1.5074 * (3.886)	2.9096 * (16.022)	1.1096 * (247.064)
1997					
Mean Test Score	0.2022 (1.872)	0.1929 * (2.954)	0.3138 * (2.810)	0.4090 * (7.297)	0.3417 * (18.653)
High Achiever	5.5040 (2.463)	2.0434 (1.625)	2.6211 (0.428)	5.5576 * (6.647)	2.4167 * (73.824)
Low Achiever	-0.8904 (2.480)	-0.8809 * (4.246)	-1.8437 * (7.611)	-1.3225 * (34.380)	-2.7897 * (156.932)
Pass Rate	1.0423 (1.804)	1.3231 * (5.196)	1.5265 (3.014)	3.1677 * (27.288)	1.2488 * (0.003)
1998					
Mean Test Score	0.0550 (1.122)	0.1536 * (3.300)	0.1723 * (2.612)	0.4207 * (8.332)	0.0871 * (10.935)
High Achiever	-0.3707 (0.186)	0.2671 (0.110)	2.0069 (1.078)	6.4731 * (9.918)	0.8963 * (49.923)
Low Achiever	-0.4120 (2.817)	-1.0948 * (10.352)	-0.5584 (2.979)	-1.5245 * (47.306)	-0.6702 * (44.095)
Pass Rate	-0.0164 (0.004)	0.9292 * (9.184)	1.1739 * (7.073)	2.9055 * (48.981)	0.2096 * (54.632)
1999					
Mean Test Score	0.1261 * (2.491)	0.2225 * (5.437)	0.2438 * (3.482)	0.3048 * (7.806)	0.1010 * (14.035)
High Achiever	4.4732 * (6.383)	2.5374 * (4.608)	1.9861 (1.521)	1.3578 (1.772)	1.1369 * (77.431)
Low Achiever	-0.6732 * (6.360)	-1.1375 * (12.303)	-0.9198 * (6.901)	-0.9894 * (28.499)	-0.9261 * (92.825)
Pass Rate	0.7794 * (8.409)	0.8954 * (13.082)	0.9926 * (6.499)	1.0498 * (20.653)	0.2116 * (93.058)

Elasticities computed at the means

Significance level of underlying coefficients in parenthesis

* Significant at the 95% significance level

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1996, 1997, 1998 and 1999

Table H-3: Elasticity of School Mathematics Improvement (1999 > 1996) with Respect to Change in School Attendance

	American Indian	Asian	Hispanic	African American	Caucasian
model 1	-0.0012 (0.182)	0.0044 (0.147)	0.0023 * (0.001)	0.0012 (0.568)	-0.0071 (0.319)
model 2	-0.0012 (0.178)	0.0044 (0.148)	0.0023 * (0.001)	0.0012 (0.582)	-0.0069 (0.333)
model 3	-0.0012 (0.180)	0.0043 (0.160)	0.0023 * (0.001)	0.0012 (0.578)	-0.0059 (0.435)
model 4	-0.0012 (0.170)	0.0044 (0.153)	0.0021 * (0.004)	0.0014 (0.517)	-0.0046 (0.546)

Values show within race percentage school improvement changes due to within race percentage attendance rate changes

Elasticities computed at the means

p-values of underlying coefficients in parenthesis

* Significant at the 95% significance level

model 1 : independent variable is attendance rate change of own race

model 2 : independent variables are attendance rate change of own race and percentage of own minority at school

model 3 : independent variables are attendance rate change of own race, percentage of own minority at school and school free/reduced priced lunch

model 4 : independent variables are attendance rate change of own race, percentage of own minority at school, school free/reduced priced lunch and school school mathematics top quintile

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1996, 1999

Table H-4: Elasticity of School Reading Improvement (1999 > 1996) with Respect to Change in School Attendance

	Americna Indian	Asian	Hispanic	African American	Caucasian
model 1	-0.0014 (0.526)	0.0014 (0.523)	0.0061 * (0.003)	-0.0026 (0.258)	-0.0005 (0.579)
model 2	-0.0015 (0.488)	0.0015 (0.490)	0.0059 * (0.004)	-0.0023 (0.325)	-0.0006 (0.504)
model 3	-0.0015 (0.501)	0.0011 (0.571)	0.0059 * (0.004)	-0.0023 (0.351)	-0.0006 (0.406)
model 4	-0.0015 (0.501)	0.0011 (0.574)	0.0058 * (0.005)	-0.0019 (0.437)	-0.0005 (0.480)

Values show within race percentage school improvement changes due to within race percentage attendance rate changes

Elasticities computed at the means

p-values of underlying coefficients in parenthesis

* Significant at the 95% significance level

model 1 : independent variable is attendance rate change of own race

model 2 : independent variables are attendance rate change of own race and percent of own minority at school

model 3 : independent variables are attendance rate change of own race, percent of own minority at school and school free/reduced priced lunch

model 4 : independent variables are attendance rate change of own race, percent of own minority at school, school free/reduced priced lunch and school school reading top quintile

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1996, 1999

Table H-5 : Elacsticity of 2-year (2000>1998) Improvement with Respect to School Poverty and Percentage of Own Minority in School.

	American Indian	Asian	Hispanic	African American	Caucasian
Mathematics					
free/reduced priced lunch	0.1736 (0.181)	0.1827 (0.107)	0.0498 (0.657)	0.1738 (0.213)	0.0646 (0.493)
% Indian in school	0.0402 (0.329)				
% Asian in school		0.0553 (0.385)			
% Hispanic in school			0.0477 (0.338)		
% Black in school				0.0836 (0.285)	
% White in school					-0.2343 (0.408)
Reading					
free/reduced priced lunch	0.0444 (0.681)	0.0383 (0.655)	-0.0617 (0.472)	-0.1322 (0.288)	-0.0418 (0.079)
% Indian in school	0.0274 (0.419)				
% Asian in school		0.1931 * (0.010)			
% Hispanic in school			0.0809 (0.123)		
% Black in school				0.3480 * (0.004)	
% White in school					0.0555

Elasticities computed at the means

p-values of underlying coefficients in parenthesis

* Significant at the 95% significance level

Other independent variables are middle/Jr. high school and school mathematics top quintile or school reading top quintile

Source : Regression Analysis, Minnesota Basic Standards Test Scores, Spring 1998, 2000

Table H-6: Ratio of Mathematics Elasticity to Reading Elasticity 1999, High Achiever

		American Indian	Asian	Hispanic	African American	Caucasian
1996	Mean Test Score	0.961	0.628	1.454	0.859	1.058
	High Achiever	0.731	0.600	10.141	1.543	1.597
	Low Achiever	1.534	0.700	1.635	0.731	1.329
	Pass Rate	1.588	0.587	1.484	1.040	0.751
1997	Mean Test Score	1.365	1.115	0.949	0.882	1.179
	High Achiever	0.724	3.247	2.076	1.903	1.904
	Low Achiever	1.545	1.452	1.314	0.829	1.618
	Pass Rate	1.415	0.900	1.891	1.081	1.049
1998	Mean Test Score	0.400	1.091	1.079	1.027	1.201
	High Achiever	-3.010	5.906	0.281	1.073	1.383
	Low Achiever	0.555	1.028	1.109	0.814	1.406
	Pass Rate	-3.869	1.007	0.636	0.944	1.259
1999	Mean Test Score	1.429	1.278	1.802	1.047	1.522
	High Achiever	1.065	1.757	3.530	2.049	1.683
	Low Achiever	0.912	1.440	1.913	0.774	1.384
	Pass Rate	1.254	1.167	2.433	1.005	1.747

ratio of elasticity = mathematic elasticity / reading elasticity