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Table I-1: Distribution of Portions of Explained Racial Gap in Mean Test Scores (Am. Indian)

Independent Variables	Mathematics				Reading			
	1996	1997	1998	1999	1996	1997	1998	1999
age	1.07%	1.41%	1.23%	0.22%	1.16%	0.47%	0.65%	0.14%
female	1.22%	1.37%	0.44%	-0.69%	-0.70%	-0.61%	-0.01%	-0.23%
attendance rate	33.59%	25.62%	7.53%	7.77%	40.51%	22.07%	7.64%	6.65%
English not spoken at home	0.06%	0.06%	0.19%	-0.01%	0.05%	0.35%	0.17%	0.01%
disability	4.71%	11.50%	30.81%	28.66%	8.45%	11.30%	35.80%	34.25%
limited English proficiency	0.06%	0.03%	0.09%	-0.16%	-0.36%	0.10%	0.03%	-0.26%
gifted/talented	13.58%	6.36%	9.25%	8.88%	23.85%	6.20%	11.46%	9.75%
% Indian in school	-7.31%	6.94%	-10.88%	4.87%	-52.67%	0.83%	-28.80%	-5.18%
% Asian in school	0.12%	3.98%	0.67%	0.71%	0.03%	4.63%	0.30%	0.40%
% Hispanic in school	0.30%	-0.46%	-0.03%	0.02%	0.57%	-1.19%	0.03%	0.05%
% Black in school	-3.06%	-3.79%	-3.75%	-2.15%	-7.88%	-8.66%	-4.38%	-3.01%
number of schools attended	10.13%	8.77%	10.82%	14.33%	15.51%	9.74%	11.74%	14.77%
free/reduced priced lunch	-5.11%	16.47%	3.25%	5.60%	3.21%	20.91%	2.90%	7.56%
school math top quintile	8.51%	5.41%	8.88%	10.08%	5.35%	3.44%	5.31%	3.99%
school reading top quintile	2.44%	3.53%	3.72%	2.25%	10.49%	6.78%	10.26%	10.02%
school math bottom quintile	27.85%	15.40%	8.86%	15.12%	10.05%	8.85%	-1.82%	6.01%
school reading bottom quintile	11.83%	-2.60%	28.91%	4.51%	42.38%	14.81%	48.72%	15.08%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

source : Minnesota Basic Standards Test Scores Spring 1996, 1997, 1998 and 1999

Table I-2: Distribution of Portions of Explained Racial Gap in Mean Test Scores (Asian)

Independent Variables	Mathematics				Reading			
	1996	1997	1998	1999	1996	1997	1998	1999
age	0.91%	1.65%	0.80%	0.10%	0.05%	0.51%	0.24%	0.05%
female	3.00%	2.03%	0.87%	0.49%	-0.89%	-0.61%	-0.02%	0.13%
attendance rate	-1.43%	1.01%	-0.38%	-0.96%	-0.19%	0.56%	-0.26%	-0.57%
English not spoken at home	19.06%	4.44%	38.10%	-2.31%	12.39%	18.01%	32.65%	1.10%
disability	-15.91%	-14.57%	-12.29%	-12.79%	-10.46%	-12.24%	-10.80%	-10.16%
limited English proficiency	58.97%	45.87%	38.49%	81.58%	94.73%	65.20%	60.79%	89.23%
gifted/talented	-4.20%	-25.89%	-22.07%	-3.03%	-4.64%	-22.88%	-19.97%	-2.40%
% Indian in school	-0.25%	0.34%	-0.09%	0.10%	-0.71%	0.04%	-0.16%	-0.07%
% Asian in school	8.80%	42.67%	19.11%	14.75%	0.97%	30.26%	6.78%	5.45%
% Hispanic in school	-7.41%	-3.63%	-3.32%	-1.13%	-5.71%	-5.57%	-3.47%	-2.28%
% Black in school	-25.12%	-8.76%	-8.16%	-7.01%	-26.57%	-12.49%	-6.80%	-6.39%
number of schools attended	1.37%	4.52%	4.55%	8.05%	0.62%	3.69%	3.49%	5.65%
free/reduced priced lunch	-7.16%	25.80%	0.56%	5.80%	1.82%	23.04%	0.36%	5.12%
school math top quintile	8.54%	3.19%	3.77%	5.51%	1.94%	1.62%	1.62%	1.40%
school reading top quintile	1.95%	2.02%	1.14%	1.17%	2.58%	3.14%	2.28%	3.34%
school math bottom quintile	39.75%	18.42%	10.09%	5.78%	5.47%	7.21%	-1.51%	1.56%
school reading bottom quintile	19.13%	0.89%	28.84%	3.88%	28.61%	0.51%	34.79%	8.84%
total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

source : Minnesota Basic Standards Test Scores Spring 1996, 1997, 1998 and 1999

Table I-3: Distribution of Portions of Explained Racial Gap in Mean Test Scores (Hispanic)

Independent Variables	Mathematics				Reading			
	1996	1997	1998	1999	1996	1997	1998	1999
age	4.39%	2.98%	1.47%	0.58%	1.99%	0.94%	0.47%	0.41%
female	1.64%	-0.28%	1.44%	0.27%	-0.56%	0.09%	-0.04%	0.07%
attendance rate	28.03%	19.05%	3.45%	4.47%	15.58%	13.55%	2.61%	2.91%
English not spoken at home	7.15%	2.15%	24.98%	-1.29%	5.32%	10.46%	21.24%	0.70%
disability	-5.19%	4.07%	7.79%	13.39%	-4.89%	2.38%	7.17%	11.28%
limited English proficiency	32.89%	26.93%	28.43%	46.33%	60.05%	42.15%	44.94%	57.65%
gifted/talented	12.96%	3.36%	-0.92%	8.02%	11.28%	4.01%	-0.52%	6.47%
% Indian in school	-0.06%	0.21%	-0.09%	0.03%	-0.24%	0.02%	-0.15%	-0.02%
% Asian in school	1.55%	13.20%	7.05%	4.22%	0.21%	11.31%	2.54%	1.77%
% Hispanic in school	-11.43%	-9.02%	-6.40%	-2.32%	-10.34%	-18.11%	-6.95%	-5.60%
% Black in school	-4.82%	-4.24%	-4.06%	-3.17%	-6.32%	-7.32%	-3.40%	-3.32%
number of schools attended	10.72%	7.09%	8.23%	10.29%	9.48%	7.66%	6.81%	8.53%
free/reduced priced lunch	-2.51%	13.59%	0.84%	3.07%	0.80%	14.54%	0.52%	3.09%
school math top quintile	4.79%	4.49%	5.10%	5.72%	1.81%	2.65%	2.21%	1.68%
school reading top quintile	2.24%	3.04%	1.93%	1.34%	3.79%	5.35%	3.97%	4.44%
school math bottom quintile	12.91%	13.70%	5.32%	6.07%	2.35%	7.47%	-0.78%	1.96%
school reading bottom quintile	4.76%	-0.32%	15.43%	2.96%	9.68%	2.86%	19.36%	7.98%
total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

source : Minnesota Basic Standards Test Scores Spring 1996, 1997, 1998 and 1999

Table I-4: Distribution of Portions of Explained Racial Gap in Mean Test Scores (African American)

Independent Variables	Mathematics				Reading			
	1996	1997	1998	1999	1996	1997	1998	1999
age	-0.08%	0.17%	0.52%	-0.02%	0.25%	0.10%	0.22%	0.03%
female	0.75%	0.58%	1.08%	0.23%	-0.28%	-0.22%	-0.03%	0.08%
attendance rate	31.90%	20.45%	4.48%	5.19%	33.22%	18.94%	4.13%	4.21%
English not spoken at home	0.43%	0.14%	3.03%	-0.21%	0.64%	0.83%	3.26%	0.13%
disability	4.98%	15.27%	21.48%	24.65%	6.09%	20.70%	23.69%	25.73%
limited English proficiency	2.67%	2.28%	4.34%	9.52%	9.77%	4.67%	8.72%	14.41%
gifted/talented	10.73%	-0.04%	-1.66%	5.59%	16.25%	0.11%	-1.63%	5.54%
% Indian in school	-0.49%	0.67%	-0.81%	0.30%	-2.98%	0.09%	-2.05%	-0.30%
% Asian in school	3.43%	16.36%	11.91%	7.97%	0.79%	17.29%	5.34%	4.06%
% Hispanic in school	-2.70%	-2.10%	-2.61%	-0.94%	-4.53%	-4.75%	-3.44%	-2.61%
% Black in school	-27.16%	-11.07%	-16.87%	-12.40%	-61.53%	-23.25%	-17.90%	-15.56%
number of schools attended	14.47%	14.34%	15.06%	21.75%	20.30%	16.49%	15.80%	21.59%
free/reduced priced lunch	-7.19%	19.93%	4.81%	6.70%	3.93%	26.39%	3.89%	8.11%
school math top quintile	8.22%	3.78%	7.35%	7.88%	4.02%	2.71%	4.07%	2.79%
school reading top quintile	2.84%	2.89%	2.78%	1.80%	9.62%	6.24%	7.03%	7.20%
school math bottom quintile	40.74%	16.27%	11.91%	15.93%	12.36%	9.28%	-2.27%	5.84%
school reading bottom quintile	16.47%	0.08%	33.21%	6.05%	52.09%	4.36%	51.17%	18.73%
total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

source : Minnesota Basic Standards Test Scores Spring 1996, 1997, 1998 and 1999

Table I-5: Estimate and Impacts of Changing Student Characteristics on Racial Gaps in Test Scores (Mathematics)

	1996 Test Score Gap (1)	1999 Test Score Gap (2)	1999 Predicted Test Score Gap (3)	1999 Percentage Difference (Actual vs Predicted) (4)
age				
African American vs. Caucasian	-0.2631	-0.3011	-0.3019	-0.25%
American Indian vs. Caucasian	-0.1632	-0.2061	-0.2059	0.14%
Asian vs. Caucasian	-0.0758	-0.1025	-0.1026	-0.05%
Hispanic vs. Caucasian	-0.1638	-0.2282	-0.2289	-0.33%
female				
African American vs. Caucasian	-0.2631	-0.3011	-0.3015	-0.12%
American Indian vs. Caucasian	-0.1632	-0.2061	-0.2085	-1.15%
Asian vs. Caucasian	-0.0758	-0.1025	-0.1030	-0.46%
Hispanic vs. Caucasian	-0.1638	-0.2282	-0.2295	-0.56%
attendance rate				
African American vs. Caucasian	-0.2631	-0.3011	-0.3039	-0.91%
American Indian vs. Caucasian	-0.1632	-0.2061	-0.2059	0.10%
Asian vs. Caucasian	-0.0758	-0.1025	-0.1025	0.01%
Hispanic vs. Caucasian	-0.1638	-0.2282	-0.2278	0.19%
English not spoken at home				
African American vs. Caucasian	-0.2631	-0.3011	-0.3022	-0.36%
American Indian vs. Caucasian	-0.1632	-0.2061	-0.2060	0.07%
Asian vs. Caucasian	-0.0758	-0.1025	-0.1025	0.02%
Hispanic vs. Caucasian	-0.1638	-0.2282	-0.2223	2.64%
disability				
African American vs. Caucasian	-0.2631	-0.3011	-0.2784	8.17%
American Indian vs. Caucasian	-0.1632	-0.2061	-0.1823	13.06%
Asian vs. Caucasian	-0.0758	-0.1025	-0.1055	-2.81%
Hispanic vs. Caucasian	-0.1638	-0.2282	-0.2086	9.39%
limited English proficiency				
African American vs. Caucasian	-0.2631	-0.3011	-0.2914	3.36%
American Indian vs. Caucasian	-0.1632	-0.2061	-0.2062	-0.03%
Asian vs. Caucasian	-0.0758	-0.1025	-0.0546	87.73%
Hispanic vs. Caucasian	-0.1638	-0.2282	-0.2160	5.62%
gifted/talented				

African American vs. Caucasian	-0.2631	-0.3011	-0.3053	-1.35%
American Indian vs. Caucasian	-0.1632	-0.2061	-0.2066	-0.24%
Asian vs. Caucasian	-0.0758	-0.1025	-0.1050	-2.34%
Hispanic vs. Caucasian	-0.1638	-0.2282	-0.2272	0.43%
% Indian in school				
African American vs. Caucasian	-0.2631	-0.3011	-0.3012	-0.02%
American Indian vs. Caucasian	-0.1632	-0.2061	-0.2043	0.89%
Asian vs. Caucasian	-0.0758	-0.1025	-0.1028	-0.25%
Hispanic vs. Caucasian	-0.1638	-0.2282	-0.2284	-0.09%
% Asian in school				
African American vs. Caucasian	-0.2631	-0.3011	-0.2983	0.94%
American Indian vs. Caucasian	-0.1632	-0.2061	-0.2041	0.98%
Asian vs. Caucasian	-0.0758	-0.1025	-0.0962	6.60%
Hispanic vs. Caucasian	-0.1638	-0.2282	-0.2282	0.02%
% Hispanic in school				
African American vs. Caucasian	-0.2631	-0.3011	-0.3016	-0.16%
American Indian vs. Caucasian	-0.1632	-0.2061	-0.2073	-0.54%
Asian vs. Caucasian	-0.0758	-0.1025	-0.1059	-3.14%
Hispanic vs. Caucasian	-0.1638	-0.2282	-0.2282	0.00%
% Black in school				
African American vs. Caucasian	-0.2631	-0.3011	-0.2989	0.76%
American Indian vs. Caucasian	-0.1632	-0.2061	-0.2065	-0.18%
Asian vs. Caucasian	-0.0758	-0.1025	-0.0978	4.86%
Hispanic vs. Caucasian	-0.1638	-0.2282	-0.2302	-0.89%
number of schools attended				
African American vs. Caucasian	-0.2631	-0.3011	-0.2953	1.96%
American Indian vs. Caucasian	-0.1632	-0.2061	-0.2004	2.85%
Asian vs. Caucasian	-0.0758	-0.1025	-0.0997	2.87%
Hispanic vs. Caucasian	-0.1638	-0.2282	-0.2251	1.36%
free/reduced priced lunch				
African American vs. Caucasian	-0.2631	-0.3011	-0.2974	1.27%
American Indian vs. Caucasian	-0.1632	-0.2061	-0.2031	1.51%
Asian vs. Caucasian	-0.0758	-0.1025	-0.1034	-0.82%
Hispanic vs. Caucasian	-0.1638	-0.2282	-0.2265	0.75%
school math top quintile				
African American vs. Caucasian	-0.2631	-0.3011	-0.3002	0.31%
American Indian vs. Caucasian	-0.1632	-0.2061	-0.2016	2.25%

Asian vs. Caucasian	-0.0758	-0.1025	-0.1003	2.22%
Hispanic vs. Caucasian	-0.1638	-0.2282	-0.2257	1.09%
school reading top quintile				
African American vs. Caucasian	-0.2631	-0.3011	-0.2998	0.45%
American Indian vs. Caucasian	-0.1632	-0.2061	-0.2045	0.82%
Asian vs. Caucasian	-0.0758	-0.1025	-0.1017	0.79%
Hispanic vs. Caucasian	-0.1638	-0.2282	-0.2297	-0.65%
school math bottom quintile				
African American vs. Caucasian	-0.2631	-0.3011	-0.3140	-4.10%
American Indian vs. Caucasian	-0.1632	-0.2061	-0.2262	-8.88%
Asian vs. Caucasian	-0.0758	-0.1025	-0.1034	-0.88%
Hispanic vs. Caucasian	-0.1638	-0.2282	-0.2393	-4.66%
school reading bottom quintile				
African American vs. Caucasian	-0.2631	-0.3011	-0.3044	-1.07%
American Indian vs. Caucasian	-0.1632	-0.2061	-0.2118	-2.66%
Asian vs. Caucasian	-0.0758	-0.1025	-0.1061	-3.34%
Hispanic vs. Caucasian	-0.1638	-0.2282	-0.2216	2.98%

(1) $(1996 \text{ minority test score} - 1996 \text{ Caucasian test score}) / 1996 \text{ Caucasian test score}$

(2) $(1999 \text{ minority test score} - 1999 \text{ Caucasian test score}) / 1999 \text{ Caucasian test score}$

(3) $(1999 \text{ minority test score predicted with 1996 characteristics} - 1999 \text{ Caucasian test score predicted with 1996 characteristics}) /$
 $1999 \text{ Caucasian test score predicted with 1996 characteristics}$

(4) $((2)-(3)) / (3)$

Table I-6: Estimate and Impacts of Changing Student Characteristics on Racial Gaps in Test Scores (Reading)

	1996 Test Score Gap	1999 Test Score Gap	1999 Predicted Test Score Gap	1999 Percentage Difference (Actual vs Predicted)
age				
African American vs. Caucasian	-0.2548	-0.1901	-0.1906	-0.27%
American Indian vs. Caucasian	-0.1546	-0.1229	-0.1224	0.42%
Asian vs. Caucasian	-0.0937	-0.0662	-0.0662	-0.06%
Hispanic vs. Caucasian	-0.1703	-0.1107	-0.1117	-0.88%
female				
African American vs. Caucasian	-0.2548	-0.1901	-0.1900	0.04%
American Indian vs. Caucasian	-0.1546	-0.1229	-0.1238	-0.70%
Asian vs. Caucasian	-0.0937	-0.0662	-0.0659	0.41%
Hispanic vs. Caucasian	-0.1703	-0.1107	-0.1110	
attendance rate				
African American vs. Caucasian	-0.2548	-0.1901	-0.1926	-1.34%
American Indian vs. Caucasian	-0.1546	-0.1229	-0.1230	-0.06%
Asian vs. Caucasian	-0.0937	-0.0662	-0.0662	-0.05%
Hispanic vs. Caucasian	-0.1703	-0.1107	-0.1103	0.34%
English not spoken at home				
African American vs. Caucasian	-0.2548	-0.1901	-0.1902	-0.05%
American Indian vs. Caucasian	-0.1546	-0.1229	-0.1228	0.09%
Asian vs. Caucasian	-0.0937	-0.0662	-0.0594	11.40%
Hispanic vs. Caucasian	-0.1703	-0.1107	-0.1040	6.43%
disability				
African American vs. Caucasian	-0.2548	-0.1901	-0.1669	13.91%
American Indian vs. Caucasian	-0.1546	-0.1229	-0.1019	20.69%
Asian vs. Caucasian	-0.0937	-0.0662	-0.0692	-4.32%
Hispanic vs. Caucasian	-0.1703	-0.1107	-0.0896	23.58%
limited English proficiency				
African American vs. Caucasian	-0.2548	-0.1901	-0.1789	6.25%
American Indian vs. Caucasian	-0.1546	-0.1229	-0.1233	-0.32%
Asian vs. Caucasian	-0.0937	-0.0662	-0.0176	276.59%
Hispanic vs. Caucasian	-0.1703	-0.1107	-0.0926	19.59%

gifted/talented

African American vs. Caucasian	-0.2548	-0.1901	-0.1930	-1.53%
American Indian vs. Caucasian	-0.1546	-0.1229	-0.1238	-0.69%
Asian vs. Caucasian	-0.0937	-0.0662	-0.0677	-2.30%
Hispanic vs. Caucasian	-0.1703	-0.1107	-0.1094	1.15%

% Indian in school

African American vs. Caucasian	-0.2548	-0.1901	-0.1901	-0.05%
American Indian vs. Caucasian	-0.1546	-0.1229	-0.1211	1.54%
Asian vs. Caucasian	-0.0937	-0.0662	-0.0663	-0.23%
Hispanic vs. Caucasian	-0.1703	-0.1107	-0.1108	-0.12%

% Asian in school

African American vs. Caucasian	-0.2548	-0.1901	-0.1755	8.27%
American Indian vs. Caucasian	-0.1546	-0.1229	-0.1089	12.85%
Asian vs. Caucasian	-0.0937	-0.0662	-0.0465	42.29%
Hispanic vs. Caucasian	-0.1703	-0.1107	-0.1144	-3.22%

% Hispanic in school

African American vs. Caucasian	-0.2548	-0.1901	-0.1919	-0.96%
American Indian vs. Caucasian	-0.1546	-0.1229	-0.1239	-0.77%
Asian vs. Caucasian	-0.0937	-0.0662	-0.0685	-3.48%
Hispanic vs. Caucasian	-0.1703	-0.1107	-0.1091	1.49%

% Black in school

African American vs. Caucasian	-0.2548	-0.1901	-0.2296	-17.23%
American Indian vs. Caucasian	-0.1546	-0.1229	-0.1681	-26.87%
Asian vs. Caucasian	-0.0937	-0.0662	-0.1087	-39.13%
Hispanic vs. Caucasian	-0.1703	-0.1107	-0.1613	-31.37%

number of schools attended

African American vs. Caucasian	-0.2548	-0.1901	-0.1794	5.96%
American Indian vs. Caucasian	-0.1546	-0.1229	-0.1169	5.14%
Asian vs. Caucasian	-0.0937	-0.0662	-0.0600	10.33%
Hispanic vs. Caucasian	-0.1703	-0.1107	-0.1055	4.91%

free/reduced priced lunch

African American vs. Caucasian	-0.2548	-0.1901	-0.1867	1.80%
American Indian vs. Caucasian	-0.1546	-0.1229	-0.1234	-0.33%
Asian vs. Caucasian	-0.0937	-0.0662	-0.0689	-3.91%
Hispanic vs. Caucasian	-0.1703	-0.1107	-0.1091	1.50%

school math top quintile

African American vs. Caucasian	-0.2548	-0.1901	-0.1885	0.82%
American Indian vs. Caucasian	-0.1546	-0.1229	-0.1221	0.70%
Asian vs. Caucasian	-0.0937	-0.0662	-0.0655	0.96%
Hispanic vs. Caucasian	-0.1703	-0.1107	-0.1114	-0.67%

school reading top quintile

African American vs. Caucasian	-0.2548	-0.1901	-0.1882	0.99%
American Indian vs. Caucasian	-0.1546	-0.1229	-0.1178	4.33%
Asian vs. Caucasian	-0.0937	-0.0662	-0.0638	3.77%
Hispanic vs. Caucasian	-0.1703	-0.1107	-0.1092	1.35%

school math bottom quintile

African American vs. Caucasian	-0.2548	-0.1901	-0.1891	0.51%
American Indian vs. Caucasian	-0.1546	-0.1229	-0.1220	0.80%
Asian vs. Caucasian	-0.0937	-0.0662	-0.0611	8.26%
Hispanic vs. Caucasian	-0.1703	-0.1107	-0.1133	-2.26%

school reading bottom quintile

African American vs. Caucasian	-0.2548	-0.1901	-0.2149	-11.55%
American Indian vs. Caucasian	-0.1546	-0.1229	-0.1434	-14.26%
Asian vs. Caucasian	-0.0937	-0.0662	-0.0671	-1.45%
Hispanic vs. Caucasian	-0.1703	-0.1107	-0.1098	0.79%

(1) (1996 minority test score - 1996 Caucasian test score) / 1996 Caucasian test score

(2) (1999 minority test score - 1999 Caucasian test score) / 1999 Caucasian test score

(3) (1999 minority test score predicted with 1996 characteristics - 1999 Caucasian test score predicted with 1996 characteristics) /
1999 Caucasian test score predicted with 1996 characteristics

(4) ((2)-(3)) / (3)