
**MULTILEVEL RESULTS FOR THE RELATIONSHIPS OF
1998 TEST SCORES TO STUDENT, CLASSROOM, AND
SCHOOL FACTORS IN FOURTH GRADE SAMPLE**

Table B.1
Multilevel Results for the Relationships of 1998 Test Scores to Student, Classroom, and School Factors in Fourth Grade Sample

Variables	Stanford-9 Reading						TAAS Reading						TAAS Mathematics						
	Model 1			Model 2			Model 1			Model 2			Model 1			Model 2			
	Coef.	SE		Coef.	SE		Coef.	SE		Coef.	SE		Coef.	SE		Coef.	SE		
Independent Variables for Students (n = 861)																			
Intercept	1.77	5.02	1.30	4.86	1.05	4.15	-1.75	4.00	9.02	4.61	4.71	4.28							
Male	-0.29a	0.06	-0.28a	0.06	0.01	0.05	0.01	0.05	-0.01	0.05	-0.01	0.05	0.05	-0.01	0.05	-0.01	0.05	0.09	0.09
African American	-0.09	0.11	-0.10	0.11	-0.13	0.09	-0.14	0.09	-0.15	0.09	-0.15	0.09	0.09	-0.15	0.09	-0.15	0.09	0.09	0.09
White or other	0.17	0.11	0.18	0.11	0.11	0.09	0.11	0.09	-0.02	0.09	-0.02	0.09	0.09	-0.02	0.09	-0.02	0.09	0.09	0.09
Bilingual education program	0.48b	0.23	0.48b	0.23	0.04	0.19	0.04	0.19	-0.25	0.18	-0.25	0.18	0.18	-0.25	0.18	-0.25	0.18	0.18	0.18
Limited English proficiency	0.14	0.12	0.14	0.12	-0.03	0.10	-0.03	0.10	-0.21b	0.10	-0.21b	0.10	0.10	-0.21b	0.10	-0.21b	0.10	0.10	0.10
Free/reduced price lunch program eligible	-0.03	0.11	-0.03	0.11	-0.02	0.10	-0.02	0.10	0.14	0.09	0.14	0.09	0.14	0.09	0.14	0.09	0.14	0.09	0.09
Special education	-0.37a	0.10	-0.37a	0.10	-0.52a	0.09	-0.52a	0.09	-0.52a	0.08	-0.52a	0.08	-0.52a	0.08	-0.52a	0.08	-0.52a	0.08	0.08
Gifted and talented education	0.34a	0.12	0.34a	0.12	0.60a	0.10	0.60a	0.10	0.47a	0.09	0.47a	0.09	0.47a	0.09	0.47a	0.09	0.47a	0.09	0.09
Age	-0.115b	0.07	-0.115b	0.07	-0.08	0.06	-0.08	0.06	-0.10	0.05	-0.10	0.05	-0.10	0.05	-0.10	0.05	-0.10	0.05	0.05
Weeks in classroom	0.01	0.00	0.01	0.00	0.01b	0.00	0.01b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997 TAAS reading score	0.31a	0.04	0.31a	0.04	0.53a	0.03	0.53a	0.03	0.59a	0.03	0.59a	0.03	0.59a	0.03	0.59a	0.03	0.59a	0.03	0.03
1997 TAAS mathematics score	-0.06	0.10	-0.07	0.10	-0.02	0.09	-0.02	0.09	-0.02	0.09	-0.02	0.09	-0.02	0.09	-0.02	0.09	-0.02	0.09	0.03
Missing 1997 TAAS reading score	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missing 1997 TAAS mathematics score	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Independent Variables for Classrooms (n = 63)																			
Male	-0.68	0.42	-0.74	0.43	-0.53	0.35	-0.59	0.35	-0.07	0.35	-0.07	0.35	-0.36	0.33	-0.36	0.33	-0.36	0.33	0.33
African American	-0.10	0.28	0.34	0.31	-0.23	0.23	0.07	0.25	-0.26	0.24	-0.26	0.24	-0.01	0.24	-0.01	0.24	-0.01	0.24	0.24
White or other	-0.49	0.48	-0.46	0.47	0.34	0.39	0.42	0.38	-0.19	0.43	-0.19	0.43	-0.04	0.39	-0.04	0.39	-0.04	0.39	0.39
Bilingual education program	-0.22	0.25	-0.21	0.24	-0.29	0.21	-0.38	0.20	-0.05	0.20	-0.05	0.20	-0.20	0.19	-0.20	0.19	-0.20	0.19	0.19
Limited English proficiency	-0.26	0.50	-0.28	0.51	-0.06	0.41	-0.08	0.42	-0.42	0.42	-0.42	0.42	-0.37	0.39	-0.37	0.39	-0.37	0.39	0.39
Free/reduced price lunch program eligible	-0.07	0.54	-0.21	0.54	-0.57	0.44	-0.41	0.44	-0.40	0.45	-0.40	0.45	0.08	0.42	0.08	0.42	0.08	0.42	0.42
Special education	0.36	0.55	0.36	0.55	-0.73	0.45	-0.84	0.45	-0.57	0.47	-0.57	0.47	-0.67	0.42	-0.67	0.42	-0.67	0.42	0.42
Gifted and talented education	0.99b	0.49	1.17b	0.46	0.20	0.40	0.21	0.38	0.54	0.42	0.54	0.42	0.61	0.37	0.61	0.37	0.61	0.37	0.37
Age	-0.30	0.41	-0.40	0.41	-0.18	0.34	-0.06	0.33	-0.84b	0.37	-0.84b	0.37	-0.59	0.35	-0.59	0.35	-0.59	0.35	0.35
Weeks in classroom	0.04	0.03	0.04	0.03	0.02	0.02	0.03	0.02	-0.02	0.03	-0.02	0.03	-0.01	0.02	-0.01	0.02	-0.01	0.02	0.02

Table B.1 (continued)

Variables	Stanford-9 Reading				TAAS Reading				TAAS Mathematics				
	Model 1		Model 2		Model 1		Model 2		Model 1		Model 2		
	Coef.	SE	Coef.	SE	Coef.	SE	Coef.	SE	Coef.	SE	Coef.	SE	
1997 TAAS reading score	0.33	0.16	0.32	0.16	0.46 ^a	0.14	0.40 ^a	0.13	0.14	0.71 ^a	0.14	0.60 ^a	0.13
1997 TAAS Mathematics Score	— ^c	— ^c	— ^c	— ^c	— ^c	— ^c	— ^c	— ^c	— ^c	— ^c	— ^c	— ^c	— ^c
Missing 1997 TAAS reading score	0.40	0.44	0.06	0.44	-0.46	0.36	-0.54	0.36	0.71 ^a	0.39	0.14	0.60 ^a	0.13
Missing 1997 TAAS mathematics score	— ^c	— ^c	— ^c	— ^c	— ^c	— ^c	— ^c	— ^c	— ^c	— ^c	— ^c	— ^c	— ^c
Male teacher	0.37	0.20	0.34	0.20	0.02	0.17	-0.09	0.16	-0.59	0.18	-0.34 ^b	0.16	0.36
African American teacher	-0.02	0.14	-0.17	0.14	0.04	0.12	-0.01	0.11	-0.06	0.12	-0.11	0.11	0.11
White or other teacher	-0.10	0.11	-0.09	0.11	-0.05	0.09	0.04	0.09	-0.20 ^b	0.10	-0.13	0.09	0.09
Years of teaching experience	0.02 ^a	0.01	0.02 ^a	0.01	0.01 ^a	0.01	0.02 ^a	0.00	0.00	0.01	0.01	0.01	0.00
Master's degree	-0.22 ^b	0.10	-0.18	0.09	-0.22 ^a	0.08	-0.21 ^b	0.08	-0.03	0.08	-0.03	0.07	0.07
Instructional strategies:													
Lecture	— ^c	— ^c	-0.03	0.05	— ^c	— ^c	0.03	0.04	— ^c	— ^c	— ^c	0.00	0.04
Students work individually on written assignments / worksheets in class	— ^c	— ^c	0.08	0.09	— ^c	— ^c	0.07	0.08	— ^c	— ^c	0.15 ^b	0.07	0.07
Students practice or drill on computational skills	— ^c	— ^c	0.14	0.08	— ^c	— ^c	0.07	0.06	— ^c	— ^c	0.12	0.06	0.06
Teacher survey indices:													
Collegiality	— ^c	— ^c	-0.03	0.07	— ^c	— ^c	-0.08	0.06	— ^c	— ^c	-0.15	0.06	0.06
Principal leadership	— ^c	— ^c	0.12	0.09	— ^c	— ^c	0.15 ^b	0.07	— ^c	— ^c	0.21	0.07	0.07
Quality of professional development	— ^c	— ^c	0.17	0.09	— ^c	— ^c	0.05	0.07	— ^c	— ^c	-0.02	0.07	0.07
Reform	— ^c	— ^c	0.11	0.11	— ^c	— ^c	0.03	0.09	— ^c	— ^c	0.13	0.09	0.09
Teacher's perceptions of factors hindering student achievement	— ^c	— ^c	-0.02	0.08	— ^c	— ^c	0.11	0.06	— ^c	— ^c	0.09	0.06	0.06
Independent Variables for Schools (n = 23)													
Average Texas Education Agency rank, 1995-1997	0.06	0.25	0.02	0.25	0.50 ^b	0.20	0.30	0.21	0.44 ^b	0.22	0.12	0.20	0.20
Years implementing a NAS design	-0.06	0.08	-0.04	0.08	-0.06	0.07	-0.05	0.07	-0.14	0.07	-0.13	0.07	0.07

NOTE: SE is standard error.

^aSignificant at 0.01 level.

^bSignificant at 0.05 level.

^cExcluded from the model.