

Appendix I

Item Nonresponse Bias Analysis Tables

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Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYWORKSY	Student held job for pay during 2001–02 school year	Sex										
		Male	48.75	59.45	50.43	-1.68	0.5303	0.5834	0.7884	2.13	Yes	
		Female	51.20	40.46	49.52	1.69	0.5307	0.5843	0.7894	2.14	Yes	
		Imputed value	0.05	0.09	0.05	-0.01	0.0215	0.0231	0.0316	0.23	No	
		Race/ethnicity										
		American Indian	0.90	1.30	0.96	-0.06	0.1961	0.1991	0.2795	0.22	No	
		Asian	3.85	4.39	3.94	-0.08	0.2519	0.2518	0.3561	0.24	No	
		Black	13.07	21.40	14.37	-1.31	0.6567	0.6248	0.9065	1.44	No	
		Multiracial	4.28	3.83	4.21	0.07	0.2234	0.2463	0.3326	0.21	No	
		White	63.15	44.80	60.27	2.88	0.9781	0.9876	1.3900	2.07	Yes	
		Hispanic ethnicity	14.01	22.63	15.37	-1.35	0.8554	0.8065	1.1756	1.15	No	
		Imputed value	0.74	1.66	0.88	-0.14	0.1015	0.0955	0.1394	1.04	No	
		Mother's education attainment										
		No high school diploma	11.37	18.12	12.43	-1.06	0.5097	0.5026	0.7158	1.48	No	
		High school graduate	26.82	26.16	26.72	0.10	0.4797	0.5222	0.7091	0.15	No	
		2-year school, no degree	12.90	11.00	12.60	0.30	0.3480	0.3807	0.5158	0.58	No	
		2-year school, degree	11.06	9.41	10.80	0.26	0.3301	0.3493	0.4806	0.54	No	
		4-year school, no degree	10.18	9.30	10.04	0.14	0.2824	0.3150	0.4230	0.33	No	
		4-year degree	16.69	12.64	16.05	0.63	0.4635	0.5114	0.6902	0.92	No	
		Master's degree	6.04	4.47	5.79	0.25	0.2666	0.2889	0.3931	0.63	No	
		Ph.D. degree	1.69	1.61	1.67	0.01	0.1432	0.1542	0.2105	0.06	No	
		Imputed value	3.25	7.29	3.88	-0.63	0.2023	0.1883	0.2764	2.30	Yes	
		School sector										
		Public	92.06	93.98	92.36	-0.30	0.2849	0.3289	0.4352	0.69	No	
		Catholic	4.62	2.23	4.25	0.38	0.1608	0.1861	0.2459	1.53	No	
		Other private	3.32	3.78	3.39	-0.07	0.2332	0.2708	0.3574	0.20	No	
		School locale										
		Urban	28.87	37.03	30.15	-1.28	0.7480	0.8210	1.1107	1.15	No	
		Suburban	51.24	44.97	50.26	0.98	0.7954	0.8733	1.1812	0.83	No	
		Rural	19.88	18.01	19.59	0.29	0.6261	0.6993	0.9386	0.31	No	
		School region										
		Northeast	18.96	16.25	18.54	0.43	0.6524	0.7373	0.9844	0.43	No	
		Midwest	24.73	20.91	24.13	0.60	0.6474	0.7203	0.9685	0.62	No	
		South	33.28	39.78	34.30	-1.02	0.6644	0.7307	0.9876	1.03	No	
		West	23.03	23.06	23.04	0.00	0.8138	0.8602	1.1842	0.00	No	
		Reading achievement										
		Low quartile	22.27	39.50	24.97	-2.70	0.7193	0.7020	1.0051	2.69	Yes	
		Medium 2 quartiles	50.68	46.20	49.98	0.70	0.5700	0.5916	0.8215	0.86	No	
		High quartile	27.05	14.30	25.05	2.00	0.6232	0.6801	0.9224	2.17	Yes	
		Math achievement										
		Low quartile	22.34	38.99	24.95	-2.61	0.7432	0.7265	1.0393	2.51	Yes	
		Medium quartile	50.71	46.34	50.03	0.69	0.5721	0.6006	0.8295	0.83	No	
		High quartile	26.95	14.67	25.03	1.93	0.6786	0.7366	1.0015	1.92	No	
		Home language										
		No (non-English)	12.65	18.40	13.55	-0.90	0.5852	0.5862	0.8283	1.09	No	
		Yes (English)	87.15	69.40	84.36	2.78	0.6171	0.5895	0.8535	3.26	Yes	
		Imputed value	0.20	12.20	2.08	-1.88	0.1964	0.0468	0.2019	9.32	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS65B	How far in school father wants 10 th grader to go	Sex										
		Male	49.34	53.66	50.43	-1.09	0.5303	0.6086	0.8072	1.35	No	
		Female	50.63	46.22	49.52	1.12	0.5307	0.6091	0.8078	1.38	No	
		Imputed value	0.03	0.12	0.05	-0.02	0.0215	0.0186	0.0285	0.85	No	
		Race/ethnicity										
		American indian	0.92	1.10	0.96	-0.05	0.1961	0.2021	0.2816	0.17	No	
		Asian	3.99	3.78	3.94	0.05	0.2519	0.2741	0.3723	0.15	No	
		Black	12.02	21.33	14.37	-2.36	0.6567	0.6087	0.8954	2.63	Yes	
		Multiracial	4.16	4.35	4.21	-0.05	0.2234	0.2485	0.3342	0.14	No	
		White	64.06	49.09	60.27	3.79	0.9781	0.9958	1.3958	2.72	Yes	
		Hispanic ethnicity	14.16	18.93	15.37	-1.21	0.8554	0.8573	1.2110	1.00	No	
		Imputed value	0.70	1.43	0.88	-0.18	0.1015	0.0896	0.1354	1.36	No	
		Mother's education attainment										
		No high school diploma	10.74	17.43	12.43	-1.69	0.5097	0.5049	0.7174	2.36	Yes	
		High school graduate	26.23	28.15	26.72	-0.49	0.4797	0.5503	0.7300	0.67	No	
		2-year school, no degree	13.08	11.20	12.60	0.47	0.3480	0.3969	0.5278	0.90	No	
		2-year school, degree	10.99	10.24	10.80	0.19	0.3301	0.3753	0.4998	0.38	No	
		4-year school, no degree	10.40	8.98	10.04	0.36	0.2824	0.3392	0.4413	0.81	No	
		4-year degree	17.59	11.54	16.05	1.53	0.4635	0.5378	0.7100	2.16	Yes	
		Master's degree	6.54	3.61	5.79	0.74	0.2666	0.3181	0.4151	1.79	No	
		Ph.D. degree	1.83	1.20	1.67	0.16	0.1432	0.1677	0.2205	0.73	No	
		Imputed value	2.61	7.64	3.88	-1.27	0.2023	0.1884	0.2764	4.61	Yes	
		School sector										
		Public	91.57	94.71	92.36	-0.80	0.2849	0.3630	0.4615	1.72	No	
		Catholic	4.92	2.28	4.25	0.67	0.1608	0.2127	0.2667	2.51	Yes	
		Other private	3.52	3.02	3.39	0.13	0.2332	0.2938	0.3752	0.34	No	
		School locale										
		Urban	28.41	35.30	30.15	-1.74	0.7480	0.8745	1.1508	1.52	No	
		Suburban	51.73	45.91	50.26	1.47	0.7954	0.9294	1.2233	1.21	No	
		Rural	19.86	18.79	19.59	0.27	0.6261	0.7613	0.9857	0.27	No	
		School region										
		Northeast	18.83	17.68	18.54	0.29	0.6524	0.8071	1.0378	0.28	No	
		Midwest	24.81	22.13	24.13	0.68	0.6474	0.7651	1.0023	0.68	No	
		South	33.36	37.06	34.30	-0.94	0.6644	0.7768	1.0222	0.92	No	
		West	23.01	23.13	23.04	-0.03	0.8138	0.8958	1.2103	0.03	No	
		Reading achievement										
		Low quartile	21.04	36.57	24.97	-3.93	0.7193	0.6849	0.9932	3.96	Yes	
		Medium 2 quartiles	50.27	49.11	49.98	0.29	0.5700	0.6102	0.8350	0.35	No	
		High quartile	28.68	14.32	25.05	3.64	0.6232	0.7213	0.9532	3.82	Yes	
		Math achievement										
		Low quartile	20.86	37.00	24.95	-4.09	0.7432	0.7105	1.0282	3.97	Yes	
		Medium quartile	50.43	48.84	50.03	0.40	0.5721	0.6330	0.8532	0.47	No	
		High quartile	28.71	14.17	25.03	3.68	0.6786	0.7666	1.0237	3.60	Yes	
		Home language										
		No (non-English)	12.75	15.91	13.55	-0.80	0.5852	0.6338	0.8626	0.93	No	
		Yes (english)	86.70	77.47	84.36	2.34	0.6171	0.6453	0.8929	2.62	Yes	
		Imputed value	0.54	6.63	2.08	-1.54	0.1964	0.0732	0.2096	7.35	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS73	Date last worked for pay	Sex									
		Male	48.83	59.21	50.43	-1.61	0.5303	0.5842	0.7890	2.04	Yes
		Female	51.13	40.70	49.52	1.61	0.5307	0.5851	0.7899	2.04	Yes
		Imputed value	0.05	0.09	0.05	-0.01	0.0215	0.0230	0.0315	0.24	No
		Race/ethnicity									
		American Indian	0.93	1.12	0.96	-0.03	0.1961	0.2073	0.2854	0.10	No
		Asian	3.83	4.50	3.94	-0.10	0.2519	0.2506	0.3553	0.29	No
		Black	13.01	21.83	14.37	-1.37	0.6567	0.6198	0.9030	1.51	No
		Multiracial	4.29	3.76	4.21	0.08	0.2234	0.2464	0.3326	0.25	No
		White	63.23	44.08	60.27	2.96	0.9781	0.9808	1.3852	2.14	Yes
		Hispanic ethnicity	13.96	23.02	15.37	-1.40	0.8554	0.8012	1.1720	1.20	No
		Imputed value	0.74	1.68	0.88	-0.15	0.1015	0.0953	0.1392	1.05	No
		Mother's education attainment									
		No High School Diploma	11.31	18.53	12.43	-1.12	0.5097	0.4992	0.7134	1.57	No
		High School Graduate	26.87	25.90	26.72	0.15	0.4797	0.5161	0.7046	0.21	No
		2-year school, no degree	12.88	11.10	12.60	0.27	0.3480	0.3767	0.5128	0.54	No
		2-year school, degree	11.06	9.41	10.80	0.25	0.3301	0.3479	0.4796	0.53	No
		4-year school, no degree	10.17	9.32	10.04	0.13	0.2824	0.3145	0.4226	0.31	No
		4-year degree	16.73	12.38	16.05	0.67	0.4635	0.5110	0.6899	0.97	No
		Master's degree	6.04	4.48	5.79	0.24	0.2666	0.2883	0.3927	0.61	No
		Ph.D. degree	1.69	1.56	1.67	0.02	0.1432	0.1550	0.2111	0.10	No
		Imputed value	3.26	7.31	3.88	-0.63	0.2023	0.1882	0.2763	2.27	Yes
		School sector									
		Public	92.06	93.98	92.36	-0.30	0.2849	0.3295	0.4356	0.68	No
		Catholic	4.62	2.24	4.25	0.37	0.1608	0.1857	0.2456	1.49	No
		Other private	3.32	3.78	3.39	-0.07	0.2332	0.2719	0.3582	0.20	No
		School locale									
		Urban	28.80	37.53	30.15	-1.35	0.7480	0.8170	1.1077	1.22	No
		Suburban	51.35	44.31	50.26	1.09	0.7954	0.8726	1.1807	0.92	No
		Rural	19.85	18.16	19.59	0.26	0.6261	0.6955	0.9358	0.28	No
		School region									
		Northeast	18.93	16.39	18.54	0.39	0.6524	0.7338	0.9819	0.40	No
		Midwest	24.72	20.92	24.13	0.59	0.6474	0.7166	0.9658	0.61	No
		South	33.29	39.79	34.30	-1.01	0.6644	0.7304	0.9874	1.02	No
		West	23.06	22.90	23.04	0.02	0.8138	0.8645	1.1873	0.02	No
		Reading achievement									
		Low quartile	22.28	39.70	24.97	-2.70	0.7193	0.7021	1.0051	2.68	Yes
		Medium 2 quartiles	50.69	46.08	49.98	0.71	0.5700	0.5945	0.8236	0.87	No
		High quartile	27.03	14.22	25.05	1.98	0.6232	0.6826	0.9243	2.15	Yes
		Math achievement									
		Low quartile	22.39	38.94	24.95	-2.56	0.7432	0.7285	1.0407	2.46	Yes
		Medium quartile	50.70	46.37	50.03	0.67	0.5721	0.5986	0.8280	0.81	No
		High quartile	26.92	14.69	25.03	1.89	0.6786	0.7374	1.0021	1.89	No
		Home language									
		No (non-English)	12.63	18.59	13.55	-0.92	0.5852	0.5846	0.8272	1.12	No
		Yes (English)	87.17	69.04	84.36	2.81	0.6171	0.5880	0.8524	3.29	Yes
		Imputed value	0.20	12.37	2.08	-1.88	0.1964	0.0467	0.2019	9.33	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS74	Date started current/most recent job	Sex									
		Male	48.44	57.07	50.43	-1.99	0.5303	0.6060	0.8053	2.48	Yes
		Female	51.51	42.89	49.52	1.99	0.5307	0.6071	0.8063	2.47	Yes
		Imputed value	0.06	0.04	0.05	0.00	0.0215	0.0261	0.0338	0.10	No
		Race/ethnicity									
		American Indian	0.96	0.97	0.96	0.00	0.1961	0.2225	0.2966	0.01	No
		Asian	3.97	3.83	3.94	0.03	0.2519	0.2669	0.3670	0.09	No
		Black	13.06	18.75	14.37	-1.31	0.6567	0.6390	0.9163	1.43	No
		Multiracial	4.46	3.36	4.21	0.26	0.2234	0.2637	0.3456	0.74	No
		White	62.72	52.12	60.27	2.45	0.9781	0.9921	1.3932	1.76	No
		Hispanic ethnicity	14.12	19.52	15.37	-1.25	0.8554	0.8286	1.1909	1.05	No
		Imputed value	0.72	1.44	0.88	-0.17	0.1015	0.0935	0.1380	1.22	No
		Mother's education attainment									
		No High School Diploma	11.18	16.60	12.43	-1.25	0.5097	0.4988	0.7131	1.76	No
		High School Graduate	26.83	26.33	26.72	0.12	0.4797	0.5405	0.7227	0.16	No
		2-year school, no degree	13.02	11.20	12.60	0.42	0.3480	0.3924	0.5244	0.81	No
		2-year school, degree	11.13	9.73	10.80	0.32	0.3301	0.3534	0.4836	0.67	No
		4-year school, no degree	10.23	9.39	10.04	0.19	0.2824	0.3252	0.4307	0.45	No
		4-year degree	16.86	13.39	16.05	0.80	0.4635	0.5232	0.6990	1.14	No
		Master's degree	5.91	5.40	5.79	0.12	0.2666	0.2956	0.3981	0.30	No
		Ph.D. degree	1.71	1.57	1.67	0.03	0.1432	0.1609	0.2154	0.15	No
		Imputed value	3.13	6.39	3.88	-0.75	0.2023	0.1978	0.2830	2.66	Yes
		School sector									
		Public	92.03	93.46	92.36	-0.33	0.2849	0.3446	0.4472	0.74	No
		Catholic	4.67	2.84	4.25	0.42	0.1608	0.2051	0.2606	1.62	No
		Other private	3.30	3.70	3.39	-0.09	0.2332	0.2767	0.3619	0.26	No
		School locale									
		Urban	29.17	33.42	30.15	-0.98	0.7480	0.8584	1.1386	0.86	No
		Suburban	51.13	47.35	50.26	0.87	0.7954	0.9050	1.2049	0.72	No
		Rural	19.70	19.23	19.59	0.11	0.6261	0.7185	0.9530	0.11	No
		School region									
		Northeast	18.69	18.03	18.54	0.15	0.6524	0.7500	0.9940	0.15	No
		Midwest	24.73	22.12	24.13	0.60	0.6474	0.7489	0.9900	0.61	No
		South	33.28	37.70	34.30	-1.02	0.6644	0.7509	1.0026	1.02	No
		West	23.30	22.15	23.04	0.27	0.8138	0.9099	1.2207	0.22	No
		Reading achievement									
		Low quartile	21.98	34.93	24.97	-2.99	0.7193	0.7105	1.0110	2.96	Yes
		Medium 2 quartiles	50.51	48.20	49.98	0.53	0.5700	0.6099	0.8348	0.64	No
		High quartile	27.51	16.87	25.05	2.46	0.6232	0.7028	0.9393	2.62	Yes
		Math achievement									
		Low quartile	22.03	34.66	24.95	-2.92	0.7432	0.7376	1.0471	2.79	Yes
		Medium quartile	50.52	48.40	50.03	0.49	0.5721	0.6136	0.8389	0.58	No
		High quartile	27.46	16.95	25.03	2.43	0.6786	0.7422	1.0056	2.42	Yes
		Home language									
		No (non-English)	12.73	16.29	13.55	-0.82	0.5852	0.5997	0.8379	0.98	No
		Yes (English)	87.09	75.29	84.36	2.73	0.6171	0.6021	0.8622	3.17	Yes
		Imputed value	0.18	8.42	2.08	-1.91	0.1964	0.0454	0.2016	9.45	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS75	How many hours usually works a week	Sex									
		Male	48.73	58.02	50.43	-1.70	0.5303	0.5843	0.7890	2.16	Yes
	Female	51.21	41.97	49.52	1.69	0.5307	0.5846	0.7895	2.14	Yes	
	Imputed value	0.06	0.01	0.05	0.01	0.0215	0.0263	0.0340	0.27	No	
	Race/ethnicity										
	American Indian	0.94	1.07	0.96	-0.02	0.1961	0.2099	0.2873	0.08	No	
	Asian	3.90	4.11	3.94	-0.04	0.2519	0.2601	0.3621	0.11	No	
	Black	12.85	21.19	14.37	-1.53	0.6567	0.6347	0.9133	1.67	No	
	Multiracial	4.39	3.38	4.21	0.19	0.2234	0.2529	0.3374	0.55	No	
	White	63.05	47.86	60.27	2.78	0.9781	0.9883	1.3905	2.00	Yes	
	Hispanic ethnicity	14.14	20.82	15.37	-1.22	0.8554	0.8091	1.1774	1.04	No	
	Imputed value	0.73	1.57	0.88	-0.15	0.1015	0.0966	0.1401	1.10	No	
	Mother's education attainment										
	No High School Diploma	11.32	17.37	12.43	-1.11	0.5097	0.4939	0.7097	1.56	No	
	High School Graduate	26.95	25.69	26.72	0.23	0.4797	0.5299	0.7148	0.32	No	
	2-year school, no degree	12.92	11.20	12.60	0.31	0.3480	0.3815	0.5164	0.61	No	
	2-year school, degree	10.99	9.96	10.80	0.19	0.3301	0.3503	0.4813	0.39	No	
	4-year school, no degree	10.17	9.45	10.04	0.13	0.2824	0.3163	0.4240	0.31	No	
	4-year degree	16.70	13.18	16.05	0.64	0.4635	0.5165	0.6940	0.93	No	
	Master's degree	6.00	4.90	5.79	0.20	0.2666	0.2934	0.3964	0.51	No	
	Ph.D. degree	1.74	1.37	1.67	0.07	0.1432	0.1613	0.2157	0.32	No	
	Imputed value	3.21	6.88	3.88	-0.67	0.2023	0.1896	0.2773	2.42	Yes	
	School sector										
	Public	92.05	93.76	92.36	-0.31	0.2849	0.3393	0.4431	0.71	No	
	Catholic	4.64	2.49	4.25	0.39	0.1608	0.1960	0.2535	1.55	No	
	Other private	3.31	3.75	3.39	-0.08	0.2332	0.2769	0.3621	0.22	No	
	School locale										
	Urban	28.91	35.70	30.15	-1.24	0.7480	0.8348	1.1209	1.11	No	
	Suburban	51.30	45.61	50.26	1.04	0.7954	0.8904	1.1939	0.87	No	
	Rural	19.79	18.68	19.59	0.20	0.6261	0.7120	0.9481	0.21	No	
	School region										
	Northeast	18.93	16.80	18.54	0.39	0.6524	0.7465	0.9914	0.39	No	
	Midwest	24.68	21.65	24.13	0.56	0.6474	0.7291	0.9751	0.57	No	
	South	33.00	40.10	34.30	-1.30	0.6644	0.7418	0.9958	1.31	No	
	West	23.39	21.45	23.04	0.35	0.8138	0.8882	1.2046	0.29	No	
	Reading achievement										
	Low quartile	22.27	37.07	24.97	-2.71	0.7193	0.7075	1.0089	2.69	Yes	
	Medium 2 quartiles	50.62	47.10	49.98	0.64	0.5700	0.5992	0.8269	0.78	No	
	High quartile	27.11	15.83	25.05	2.07	0.6232	0.6834	0.9248	2.23	Yes	
	Math achievement										
	Low quartile	22.37	36.47	24.95	-2.58	0.7432	0.7359	1.0459	2.47	Yes	
	Medium quartile	50.48	47.98	50.03	0.46	0.5721	0.6008	0.8296	0.55	No	
High quartile	27.15	15.55	25.03	2.12	0.6786	0.7349	1.0003	2.12	Yes		
Home language											
No (non-English)	12.73	17.21	13.55	-0.82	0.5852	0.5910	0.8317	0.99	No		
Yes (English)	87.06	72.34	84.36	2.69	0.6171	0.5939	0.8565	3.15	Yes		
Imputed value	0.21	10.44	2.08	-1.87	0.1964	0.0483	0.2023	9.26	Yes		

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS76	How many hours works on the weekend	Sex									
		Male	48.83	57.34	50.43	-1.60	0.5303	0.5911	0.7941	2.01	Yes
		Female	51.11	42.61	49.52	1.60	0.5307	0.5919	0.7949	2.01	Yes
		Imputed value	0.05	0.05	0.05	0.00	0.0215	0.0247	0.0328	0.01	No
		Race/ethnicity									
		American Indian	0.94	1.05	0.96	-0.02	0.1961	0.2163	0.2919	0.07	No
		Asian	3.90	4.10	3.94	-0.04	0.2519	0.2602	0.3622	0.11	No
		Black	12.78	21.26	14.37	-1.60	0.6567	0.6253	0.9068	1.76	No
		Multiracial	4.41	3.34	4.21	0.20	0.2234	0.2547	0.3388	0.59	No
		White	63.19	47.63	60.27	2.93	0.9781	0.9772	1.3826	2.12	Yes
		Hispanic ethnicity	14.05	21.05	15.37	-1.32	0.8554	0.8059	1.1752	1.12	No
		Imputed value	0.73	1.56	0.88	-0.16	0.1015	0.0965	0.1401	1.12	No
		Mother's education attainment									
		No High School Diploma	11.24	17.55	12.43	-1.19	0.5097	0.4910	0.7077	1.68	No
		High School Graduate	26.99	25.52	26.72	0.28	0.4797	0.5358	0.7192	0.39	No
		2-year school, no degree	12.87	11.46	12.60	0.26	0.3480	0.3818	0.5166	0.51	No
		2-year school, degree	11.00	9.94	10.80	0.20	0.3301	0.3520	0.4826	0.42	No
		4-year school, no degree	10.17	9.49	10.04	0.13	0.2824	0.3176	0.4250	0.30	No
		4-year degree	16.76	13.01	16.05	0.70	0.4635	0.5170	0.6944	1.01	No
		Master's degree	6.05	4.71	5.79	0.25	0.2666	0.2954	0.3979	0.63	No
		Ph.D. degree	1.70	1.54	1.67	0.03	0.1432	0.1565	0.2121	0.14	No
		Imputed value	3.22	6.76	3.88	-0.67	0.2023	0.1883	0.2763	2.41	Yes
		School sector									
		Public	92.06	93.68	92.36	-0.30	0.2849	0.3336	0.4387	0.69	No
		Catholic	4.65	2.54	4.25	0.40	0.1608	0.1956	0.2532	1.57	No
		Other private	3.30	3.79	3.39	-0.09	0.2332	0.2695	0.3564	0.26	No
		School locale									
		Urban	28.80	36.00	30.15	-1.36	0.7480	0.8343	1.1205	1.21	No
		Suburban	51.36	45.49	50.26	1.10	0.7954	0.8900	1.1936	0.92	No
		Rural	19.84	18.50	19.59	0.25	0.6261	0.7140	0.9496	0.26	No
		School region									
		Northeast	18.94	16.80	18.54	0.40	0.6524	0.7522	0.9957	0.40	No
		Midwest	24.61	22.04	24.13	0.48	0.6474	0.7220	0.9698	0.50	No
		South	33.08	39.58	34.30	-1.22	0.6644	0.7420	0.9960	1.23	No
		West	23.37	21.58	23.04	0.34	0.8138	0.8876	1.2042	0.28	No
		Reading achievement									
		Low quartile	22.06	37.58	24.97	-2.92	0.7193	0.7018	1.0049	2.91	Yes
		Medium 2 quartiles	50.75	46.64	49.98	0.77	0.5700	0.5967	0.8252	0.94	No
		High quartile	27.19	15.78	25.05	2.15	0.6232	0.6855	0.9264	2.32	Yes
		Math achievement									
		Low quartile	22.10	37.25	24.95	-2.85	0.7432	0.7330	1.0439	2.73	Yes
		Medium quartile	50.67	47.26	50.03	0.64	0.5721	0.6049	0.8326	0.77	No
		High quartile	27.23	15.49	25.03	2.21	0.6786	0.7337	0.9994	2.21	Yes
		Home language									
		No (non-English)	12.70	17.23	13.55	-0.85	0.5852	0.5914	0.8320	1.02	No
		Yes (English)	87.09	72.61	84.36	2.72	0.6171	0.5945	0.8569	3.18	Yes
		Imputed value	0.21	10.17	2.08	-1.87	0.1964	0.0486	0.2024	9.25	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS77	Type of work does on current/most recent job	Sex									
		Male	48.89	56.82	50.43	-1.54	0.5303	0.5942	0.7964	1.93	No
		Female	51.04	43.17	49.52	1.53	0.5307	0.5943	0.7968	1.92	No
		Imputed value	0.06	0.01	0.05	0.01	0.0215	0.0266	0.0343	0.30	No
		Race/ethnicity									
		American Indian	0.94	1.08	0.96	-0.03	0.1961	0.2059	0.2843	0.10	No
		Asian	3.89	4.12	3.94	-0.04	0.2519	0.2597	0.3618	0.12	No
		Black	12.96	20.23	14.37	-1.41	0.6567	0.6317	0.9112	1.55	No
		Multiracial	4.28	3.91	4.21	0.07	0.2234	0.2505	0.3357	0.22	No
		White	62.82	49.66	60.27	2.55	0.9781	0.9930	1.3938	1.83	No
		Hispanic ethnicity	14.36	19.53	15.37	-1.00	0.8554	0.8206	1.1853	0.85	No
		Imputed value	0.74	1.47	0.88	-0.14	0.1015	0.0993	0.1420	0.99	No
		Mother's education attainment									
		No High School Diploma	11.47	16.42	12.43	-0.96	0.5097	0.5149	0.7245	1.33	No
		High School Graduate	26.72	26.69	26.72	0.01	0.4797	0.5278	0.7132	0.01	No
		2-year school, no degree	12.73	12.06	12.60	0.13	0.3480	0.3893	0.5222	0.25	No
		2-year school, degree	11.08	9.65	10.80	0.28	0.3301	0.3519	0.4825	0.58	No
		4-year school, no degree	10.29	8.98	10.04	0.25	0.2824	0.3204	0.4270	0.59	No
		4-year degree	16.73	13.24	16.05	0.68	0.4635	0.5222	0.6982	0.97	No
		Master's degree	6.07	4.65	5.79	0.28	0.2666	0.2941	0.3970	0.70	No
		Ph.D. degree	1.72	1.47	1.67	0.05	0.1432	0.1549	0.2110	0.23	No
		Imputed value	3.17	6.83	3.88	-0.71	0.2023	0.1930	0.2796	2.54	Yes
		School sector									
		Public	91.97	93.98	92.36	-0.39	0.2849	0.3357	0.4403	0.88	No
		Catholic	4.68	2.47	4.25	0.43	0.1608	0.1985	0.2555	1.68	No
		Other private	3.35	3.56	3.39	-0.04	0.2332	0.2703	0.3570	0.11	No
		School locale									
		Urban	28.75	35.97	30.15	-1.40	0.7480	0.8268	1.1150	1.26	No
		Suburban	51.45	45.31	50.26	1.19	0.7954	0.8805	1.1866	1.00	No
		Rural	19.80	18.71	19.59	0.21	0.6261	0.6923	0.9334	0.23	No
		School region									
		Northeast	19.02	16.53	18.54	0.48	0.6524	0.7659	1.0061	0.48	No
		Midwest	24.43	22.87	24.13	0.30	0.6474	0.7072	0.9588	0.32	No
		South	33.28	38.51	34.30	-1.01	0.6644	0.7346	0.9905	1.02	No
		West	23.27	22.08	23.04	0.23	0.8138	0.8697	1.1911	0.19	No
		Reading achievement									
		Low quartile	22.15	36.73	24.97	-2.83	0.7193	0.7049	1.0071	2.81	Yes
		Medium 2 quartiles	50.44	48.08	49.98	0.46	0.5700	0.5936	0.8229	0.56	No
		High quartile	27.42	15.19	25.05	2.37	0.6232	0.6908	0.9304	2.55	Yes
		Math achievement									
		Low quartile	22.29	35.99	24.95	-2.66	0.7432	0.7324	1.0434	2.55	Yes
		Medium quartile	50.38	48.54	50.03	0.36	0.5721	0.6055	0.8331	0.43	No
		High quartile	27.32	15.47	25.03	2.30	0.6786	0.7516	1.0126	2.27	Yes
		Home language									
		No (non-English)	12.94	16.08	13.55	-0.61	0.5852	0.6101	0.8454	0.72	No
		Yes (English)	86.84	74.06	84.36	2.48	0.6171	0.6141	0.8706	2.85	Yes
		Imputed value	0.21	9.86	2.08	-1.87	0.1964	0.0449	0.2015	9.28	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS79	How got current/most recent job	Sex										
		Male	48.93	57.78	50.43	-1.50	0.5303	0.5842	0.7890	1.90	No	
		Female	51.02	42.13	49.52	1.51	0.5307	0.5848	0.7897	1.91	No	
		Imputed value	0.05	0.09	0.05	-0.01	0.0215	0.0231	0.0316	0.25	No	
		Race/ethnicity										
		American Indian	0.95	1.01	0.96	-0.01	0.1961	0.2090	0.2866	0.03	No	
		Asian	3.85	4.38	3.94	-0.09	0.2519	0.2537	0.3575	0.25	No	
		Black	12.93	21.45	14.37	-1.44	0.6567	0.6320	0.9115	1.58	No	
		Multiracial	4.29	3.83	4.21	0.08	0.2234	0.2499	0.3352	0.23	No	
		White	63.13	46.25	60.27	2.86	0.9781	0.9871	1.3896	2.06	Yes	
		Hispanic ethnicity	14.13	21.43	15.37	-1.24	0.8554	0.8095	1.1777	1.05	No	
		Imputed value	0.73	1.65	0.88	-0.16	0.1015	0.0965	0.1401	1.11	No	
		Mother's education attainment										
		No High School Diploma	11.48	17.11	12.43	-0.95	0.5097	0.5077	0.7194	1.33	No	
		High School Graduate	26.84	26.11	26.72	0.12	0.4797	0.5244	0.7108	0.17	No	
		2-year school, no degree	12.77	11.80	12.60	0.16	0.3480	0.3869	0.5204	0.32	No	
		2-year school, degree	11.02	9.74	10.80	0.22	0.3301	0.3483	0.4799	0.45	No	
		4-year school, no degree	10.19	9.31	10.04	0.15	0.2824	0.3115	0.4204	0.35	No	
		4-year degree	16.76	12.61	16.05	0.70	0.4635	0.5206	0.6971	1.01	No	
		Master's degree	6.02	4.68	5.79	0.23	0.2666	0.2921	0.3955	0.57	No	
		Ph.D. degree	1.73	1.39	1.67	0.06	0.1432	0.1592	0.2141	0.27	No	
		Imputed value	3.20	7.25	3.88	-0.69	0.2023	0.1916	0.2787	2.47	Yes	
		School sector										
		Public	92.04	93.94	92.36	-0.32	0.2849	0.3295	0.4356	0.74	No	
		Catholic	4.63	2.38	4.25	0.38	0.1608	0.1871	0.2467	1.54	No	
		Other private	3.33	3.67	3.39	-0.06	0.2332	0.2701	0.3568	0.16	No	
		School locale										
		Urban	29.00	35.80	30.15	-1.15	0.7480	0.8368	1.1224	1.03	No	
		Suburban	51.11	46.09	50.26	0.85	0.7954	0.8881	1.1922	0.71	No	
		Rural	19.89	18.11	19.59	0.30	0.6261	0.7162	0.9513	0.32	No	
		School region										
		Northeast	18.88	16.86	18.54	0.34	0.6524	0.7517	0.9953	0.34	No	
		Midwest	24.47	22.43	24.13	0.35	0.6474	0.7241	0.9714	0.36	No	
		South	33.20	39.70	34.30	-1.10	0.6644	0.7403	0.9947	1.11	No	
		West	23.45	21.01	23.04	0.41	0.8138	0.8807	1.1991	0.35	No	
		Reading achievement										
		Low quartile	22.33	37.96	24.97	-2.65	0.7193	0.7043	1.0067	2.63	Yes	
		Medium 2 quartiles	50.55	47.16	49.98	0.57	0.5700	0.5964	0.8249	0.70	No	
		High quartile	27.12	14.88	25.05	2.07	0.6232	0.6905	0.9301	2.23	Yes	
		Math achievement										
		Low quartile	22.55	36.71	24.95	-2.40	0.7432	0.7333	1.0441	2.30	Yes	
		Medium quartile	50.37	48.33	50.03	0.35	0.5721	0.6042	0.8321	0.42	No	
		High quartile	27.08	14.96	25.03	2.05	0.6786	0.7465	1.0088	2.04	Yes	
		Home language										
		No (non-English)	12.69	17.79	13.55	-0.86	0.5852	0.6029	0.8402	1.03	No	
		Yes (English)	87.12	70.87	84.36	2.75	0.6171	0.6055	0.8646	3.18	Yes	
		Imputed value	0.20	11.34	2.08	-1.89	0.1964	0.0416	0.2008	9.41	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS80	How closely related job is to desired job after education	Sex										
		Male	48.74	59.19	50.43	-1.69	0.5303	0.5789	0.7851	2.15	Yes	
		Female	51.21	40.76	49.52	1.69	0.5307	0.5792	0.7855	2.15	Yes	
		Imputed value	0.05	0.05	0.05	0.00	0.0215	0.0246	0.0327	0.02	No	
		Race/ethnicity										
		American Indian	0.92	1.17	0.96	-0.04	0.1961	0.2003	0.2803	0.14	No	
		Asian	3.81	4.58	3.94	-0.12	0.2519	0.2508	0.3555	0.35	No	
		Black	12.87	22.14	14.37	-1.50	0.6567	0.6208	0.9037	1.66	No	
		Multiracial	4.31	3.70	4.21	0.10	0.2234	0.2458	0.3322	0.30	No	
		White	63.21	45.02	60.27	2.95	0.9781	0.9740	1.3804	2.13	Yes	
		Hispanic ethnicity	14.14	21.69	15.37	-1.22	0.8554	0.8009	1.1718	1.04	No	
		Imputed value	0.72	1.70	0.88	-0.16	0.1015	0.0956	0.1394	1.14	No	
		Mother's education attainment										
		No High School Diploma	11.39	17.82	12.43	-1.04	0.5097	0.5070	0.7189	1.45	No	
		High School Graduate	26.81	26.22	26.72	0.10	0.4797	0.5298	0.7147	0.13	No	
		2-year school, no degree	12.87	11.20	12.60	0.27	0.3480	0.3862	0.5199	0.52	No	
		2-year school, degree	11.01	9.75	10.80	0.20	0.3301	0.3494	0.4807	0.42	No	
		4-year school, no degree	10.18	9.30	10.04	0.14	0.2824	0.3115	0.4204	0.34	No	
		4-year degree	16.73	12.54	16.05	0.68	0.4635	0.5227	0.6986	0.97	No	
		Master's degree	6.05	4.48	5.79	0.25	0.2666	0.2901	0.3940	0.65	No	
		Ph.D. degree	1.72	1.45	1.67	0.04	0.1432	0.1568	0.2124	0.20	No	
		Imputed value	3.24	7.24	3.88	-0.65	0.2023	0.1896	0.2773	2.34	Yes	
		School sector										
		Public	92.05	94.00	92.36	-0.32	0.2849	0.3285	0.4349	0.73	No	
		Catholic	4.64	2.24	4.25	0.39	0.1608	0.1862	0.2460	1.58	No	
		Other private	3.32	3.76	3.39	-0.07	0.2332	0.2695	0.3564	0.20	No	
		School locale										
		Urban	28.96	36.32	30.15	-1.19	0.7480	0.8363	1.1220	1.06	No	
		Suburban	51.17	45.55	50.26	0.91	0.7954	0.8875	1.1918	0.76	No	
		Rural	19.87	18.13	19.59	0.28	0.6261	0.7108	0.9472	0.30	No	
		School region										
		Northeast	18.96	16.37	18.54	0.42	0.6524	0.7621	1.0032	0.42	No	
		Midwest	24.59	21.75	24.13	0.46	0.6474	0.7203	0.9685	0.47	No	
		South	33.15	40.26	34.30	-1.15	0.6644	0.7397	0.9943	1.16	No	
		West	23.31	21.62	23.04	0.27	0.8138	0.8752	1.1951	0.23	No	
		Reading achievement										
		Low quartile	22.22	39.24	24.97	-2.76	0.7193	0.7112	1.0115	2.72	Yes	
		Medium 2 quartiles	50.52	47.15	49.98	0.55	0.5700	0.6077	0.8332	0.65	No	
		High quartile	27.26	13.60	25.05	2.21	0.6232	0.6898	0.9297	2.38	Yes	
		Math achievement										
		Low quartile	22.50	37.64	24.95	-2.45	0.7432	0.7351	1.0453	2.34	Yes	
		Medium quartile	50.38	48.17	50.03	0.36	0.5721	0.6049	0.8326	0.43	No	
		High quartile	27.12	14.19	25.03	2.09	0.6786	0.7470	1.0092	2.07	Yes	
		Home language										
		No (non-English)	12.66	18.16	13.55	-0.89	0.5852	0.5903	0.8312	1.07	No	
		Yes (English)	87.13	70.02	84.36	2.77	0.6171	0.5933	0.8561	3.24	Yes	
		Imputed value	0.20	11.82	2.08	-1.88	0.1964	0.0433	0.2012	9.35	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS85C	Special privileges given for good grades	Sex									
		Male	48.39	61.68	50.43	-2.05	0.5303	0.6058	0.8051	2.54	Yes
		Female	51.57	38.24	49.52	2.05	0.5307	0.6069	0.8062	2.55	Yes
		Imputed value	0.05	0.08	0.05	-0.01	0.0215	0.0235	0.0319	0.16	No
		Race/ethnicity									
		American Indian	0.81	1.79	0.96	-0.15	0.1961	0.1740	0.2622	0.58	No
		Asian	3.85	4.44	3.94	-0.09	0.2519	0.2565	0.3595	0.25	No
		Black	12.59	24.19	14.37	-1.79	0.6567	0.6055	0.8933	2.00	Yes
		Multiracial	4.17	4.43	4.21	-0.04	0.2234	0.2420	0.3294	0.12	No
		White	63.79	40.92	60.27	3.52	0.9781	0.9926	1.3936	2.53	Yes
		Hispanic ethnicity	14.06	22.57	15.37	-1.31	0.8554	0.8541	1.2088	1.08	No
		Imputed value	0.74	1.65	0.88	-0.14	0.1015	0.0961	0.1398	1.00	No
		Mother's education attainment									
		No High School Diploma	11.35	18.38	12.43	-1.08	0.5097	0.5281	0.7339	1.48	No
		High School Graduate	26.85	25.98	26.72	0.13	0.4797	0.5030	0.6951	0.19	No
		2-year school, no degree	12.87	11.15	12.60	0.26	0.3480	0.3852	0.5191	0.51	No
		2-year school, degree	11.13	9.02	10.80	0.33	0.3301	0.3575	0.4866	0.67	No
		4-year school, no degree	10.24	8.93	10.04	0.20	0.2824	0.3172	0.4247	0.48	No
		4-year degree	16.76	12.17	16.05	0.71	0.4635	0.5056	0.6859	1.03	No
		Master's degree	6.17	3.71	5.79	0.38	0.2666	0.2964	0.3986	0.95	No
		Ph.D. degree	1.75	1.24	1.67	0.08	0.1432	0.1633	0.2172	0.37	No
		Imputed value	2.88	9.43	3.88	-1.01	0.2023	0.1782	0.2696	3.74	Yes
		School sector									
		Public	92.06	94.00	92.36	-0.30	0.2849	0.3166	0.4259	0.70	No
		Catholic	4.63	2.15	4.25	0.38	0.1608	0.1851	0.2452	1.56	No
		Other private	3.31	3.85	3.39	-0.08	0.2332	0.2537	0.3446	0.24	No
		School locale									
		Urban	28.95	36.78	30.15	-1.21	0.7480	0.8464	1.1296	1.07	No
		Suburban	51.13	45.47	50.26	0.87	0.7954	0.8932	1.1960	0.73	No
		Rural	19.93	17.75	19.59	0.34	0.6261	0.7147	0.9502	0.35	No
		School region									
		Northeast	18.84	16.86	18.54	0.31	0.6524	0.7714	1.0103	0.30	No
		Midwest	24.56	21.77	24.13	0.43	0.6474	0.7176	0.9665	0.44	No
		South	32.92	41.87	34.30	-1.38	0.6644	0.7357	0.9913	1.39	No
		West	23.68	19.51	23.04	0.64	0.8138	0.8905	1.2063	0.53	No
		Reading achievement									
		Low quartile	21.43	44.43	24.97	-3.54	0.7193	0.7049	1.0071	3.52	Yes
		Medium 2 quartiles	51.16	43.50	49.98	1.18	0.5700	0.5968	0.8252	1.43	No
		High quartile	27.41	12.06	25.05	2.36	0.6232	0.6910	0.9305	2.54	Yes
		Math achievement									
		Low quartile	21.77	42.41	24.95	-3.18	0.7432	0.7292	1.0412	3.05	Yes
		Medium quartile	51.16	43.81	50.03	1.13	0.5721	0.6124	0.8380	1.35	No
		High quartile	27.07	13.78	25.03	2.05	0.6786	0.7465	1.0088	2.03	Yes
		Home language									
		No (non-English)	12.70	18.26	13.55	-0.86	0.5852	0.6292	0.8592	1.00	No
		Yes (English)	86.99	69.95	84.36	2.62	0.6171	0.6376	0.8873	2.96	Yes
		Imputed value	0.32	11.79	2.08	-1.77	0.1964	0.0685	0.2080	8.49	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS85D	Parents limit privileges due to poor grades	Sex									
		Male	48.50	61.13	50.43	-1.93	0.5303	0.5894	0.7928	2.43	Yes
		Female	51.45	38.80	49.52	1.93	0.5307	0.5903	0.7938	2.44	Yes
		Imputed value	0.05	0.07	0.05	0.00	0.0215	0.0241	0.0323	0.10	No
		Race/ethnicity									
		American Indian	0.80	1.89	0.96	-0.17	0.1961	0.1733	0.2617	0.64	No
		Asian	3.89	4.18	3.94	-0.04	0.2519	0.2562	0.3593	0.12	No
		Black	12.67	23.82	14.37	-1.70	0.6567	0.6036	0.8920	1.91	No
		Multiracial	4.14	4.57	4.21	-0.07	0.2234	0.2408	0.3285	0.20	No
		White	63.66	41.43	60.27	3.40	0.9781	0.9894	1.3913	2.44	Yes
		Hispanic ethnicity	14.09	22.43	15.37	-1.27	0.8554	0.8467	1.2035	1.06	No
		Imputed value	0.74	1.67	0.88	-0.14	0.1015	0.0949	0.1390	1.03	No
		Mother's education attainment									
		No High School Diploma	11.44	17.93	12.43	-0.99	0.5097	0.5236	0.7307	1.36	No
		High School Graduate	26.68	26.93	26.72	-0.04	0.4797	0.5016	0.6941	0.06	No
		2-year school, no degree	12.81	11.44	12.60	0.21	0.3480	0.3876	0.5209	0.40	No
		2-year school, degree	11.08	9.29	10.80	0.27	0.3301	0.3561	0.4856	0.56	No
		4-year school, no degree	10.32	8.48	10.04	0.28	0.2824	0.3165	0.4242	0.66	No
		4-year degree	16.84	11.72	16.05	0.78	0.4635	0.5072	0.6871	1.14	No
		Master's degree	6.15	3.82	5.79	0.36	0.2666	0.2955	0.3980	0.90	No
		Ph.D. degree	1.73	1.34	1.67	0.06	0.1432	0.1617	0.2160	0.28	No
		Imputed value	2.95	9.05	3.88	-0.93	0.2023	0.1804	0.2710	3.44	Yes
		School sector									
		Public	92.07	93.96	92.36	-0.29	0.2849	0.3137	0.4238	0.68	No
		Catholic	4.63	2.14	4.25	0.38	0.1608	0.1836	0.2441	1.56	No
		Other private	3.30	3.90	3.39	-0.09	0.2332	0.2512	0.3428	0.27	No
		School locale									
		Urban	28.94	36.88	30.15	-1.21	0.7480	0.8347	1.1208	1.08	No
		Suburban	51.18	45.14	50.26	0.92	0.7954	0.8858	1.1905	0.77	No
		Rural	19.88	17.98	19.59	0.29	0.6261	0.7084	0.9454	0.31	No
		School region									
		Northeast	18.89	16.57	18.54	0.35	0.6524	0.7628	1.0037	0.35	No
		Midwest	24.62	21.41	24.13	0.49	0.6474	0.7217	0.9696	0.51	No
		South	32.92	41.93	34.30	-1.38	0.6644	0.7283	0.9858	1.40	No
		West	23.57	20.09	23.04	0.53	0.8138	0.8786	1.1976	0.44	No
		Reading achievement									
		Low quartile	21.57	43.83	24.97	-3.40	0.7193	0.6950	1.0002	3.40	Yes
		Medium 2 quartiles	51.11	43.72	49.98	1.13	0.5700	0.5918	0.8217	1.37	No
		High quartile	27.32	12.46	25.05	2.27	0.6232	0.6881	0.9284	2.45	Yes
		Math achievement									
		Low quartile	21.88	41.98	24.95	-3.07	0.7432	0.7236	1.0373	2.96	Yes
		Medium quartile	51.14	43.83	50.03	1.12	0.5721	0.6071	0.8342	1.34	No
		High quartile	26.98	14.19	25.03	1.95	0.6786	0.7395	1.0037	1.95	No
		Home language									
		No (non-English)	12.74	18.03	13.55	-0.81	0.5852	0.6246	0.8559	0.94	No
		Yes (English)	86.91	70.25	84.36	2.55	0.6171	0.6327	0.8838	2.88	Yes
		Imputed value	0.35	11.72	2.08	-1.74	0.1964	0.0717	0.2091	8.31	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS85E	Required to work around the house	Sex									
		Male	48.46	59.54	50.43	-1.97	0.5303	0.6049	0.8044	2.45	Yes
		Female	51.48	40.44	49.52	1.96	0.5307	0.6059	0.8055	2.44	Yes
		Imputed value	0.06	0.03	0.05	0.01	0.0215	0.0259	0.0337	0.16	No
		Race/ethnicity									
		American Indian	0.81	1.67	0.96	-0.15	0.1961	0.1711	0.2602	0.59	No
		Asian	3.89	4.16	3.94	-0.05	0.2519	0.2567	0.3596	0.13	No
		Black	12.57	22.73	14.37	-1.81	0.6567	0.6155	0.9001	2.01	Yes
		Multiracial	4.15	4.47	4.21	-0.06	0.2234	0.2440	0.3308	0.17	No
		White	63.84	43.73	60.27	3.58	0.9781	0.9873	1.3898	2.57	Yes
		Hispanic ethnicity	13.98	21.79	15.37	-1.39	0.8554	0.8482	1.2046	1.15	No
		Imputed value	0.76	1.45	0.88	-0.12	0.1015	0.0987	0.1416	0.86	No
		Mother's education attainment									
		No High School Diploma	11.32	17.55	12.43	-1.11	0.5097	0.5249	0.7316	1.51	No
		High School Graduate	26.76	26.51	26.72	0.05	0.4797	0.5133	0.7026	0.06	No
		2-year school, no degree	12.70	12.16	12.60	0.10	0.3480	0.3904	0.5229	0.18	No
		2-year school, degree	11.10	9.41	10.80	0.30	0.3301	0.3635	0.4910	0.61	No
		4-year school, no degree	10.37	8.50	10.04	0.33	0.2824	0.3200	0.4268	0.78	No
		4-year degree	16.88	12.24	16.05	0.83	0.4635	0.5082	0.6879	1.20	No
		Master's degree	6.16	4.11	5.79	0.36	0.2666	0.2969	0.3990	0.91	No
		Ph.D. degree	1.75	1.31	1.67	0.08	0.1432	0.1651	0.2185	0.36	No
		Imputed value	2.95	8.21	3.88	-0.93	0.2023	0.1844	0.2737	3.41	Yes
		School sector									
		Public	92.01	94.00	92.36	-0.35	0.2849	0.3204	0.4288	0.83	No
		Catholic	4.65	2.39	4.25	0.40	0.1608	0.1836	0.2440	1.65	No
		Other private	3.34	3.61	3.39	-0.05	0.2332	0.2600	0.3493	0.14	No
		School locale									
		Urban	29.04	35.29	30.15	-1.11	0.7480	0.8561	1.1368	0.98	No
		Suburban	51.02	46.74	50.26	0.76	0.7954	0.8907	1.1942	0.64	No
		Rural	19.94	17.96	19.59	0.35	0.6261	0.6984	0.9380	0.37	No
		School region									
		Northeast	18.95	16.64	18.54	0.41	0.6524	0.7523	0.9958	0.41	No
		Midwest	24.48	22.49	24.13	0.35	0.6474	0.7147	0.9644	0.37	No
		South	32.88	40.85	34.30	-1.42	0.6644	0.7354	0.9911	1.43	No
		West	23.69	20.03	23.04	0.65	0.8138	0.8974	1.2114	0.54	No
		Reading achievement									
		Low quartile	21.50	41.03	24.97	-3.47	0.7193	0.7070	1.0086	3.44	Yes
		Medium 2 quartiles	51.00	45.24	49.98	1.02	0.5700	0.5981	0.8262	1.24	No
		High quartile	27.49	13.73	25.05	2.45	0.6232	0.7076	0.9429	2.60	Yes
		Math achievement									
		Low quartile	21.83	39.39	24.95	-3.12	0.7432	0.7455	1.0526	2.97	Yes
		Medium quartile	50.94	45.81	50.03	0.91	0.5721	0.6153	0.8402	1.08	No
		High quartile	27.24	14.80	25.03	2.21	0.6786	0.7639	1.0217	2.16	Yes
		Home language									
		No (non-English)	12.58	18.05	13.55	-0.97	0.5852	0.6196	0.8523	1.14	No
		Yes (English)	87.10	71.72	84.36	2.73	0.6171	0.6283	0.8807	3.10	Yes
		Imputed value	0.32	10.23	2.08	-1.76	0.1964	0.0704	0.2087	8.44	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS85F	Parents limit TV watching or video games	Sex									
		Male	48.63	60.35	50.43	-1.81	0.5303	0.6070	0.8060	2.24	Yes
		Female	51.32	39.58	49.52	1.81	0.5307	0.6075	0.8067	2.24	Yes
		Imputed value	0.05	0.07	0.05	0.00	0.0215	0.0213	0.0303	0.13	No
		Race/ethnicity									
		American Indian	0.80	1.86	0.96	-0.16	0.1961	0.1714	0.2605	0.63	No
		Asian	3.90	4.13	3.94	-0.03	0.2519	0.2594	0.3616	0.10	No
		Black	12.64	23.88	14.37	-1.73	0.6567	0.6161	0.9005	1.92	No
		Multiracial	4.15	4.54	4.21	-0.06	0.2234	0.2400	0.3279	0.18	No
		White	63.71	41.37	60.27	3.44	0.9781	0.9865	1.3892	2.48	Yes
		Hispanic ethnicity	14.05	22.62	15.37	-1.32	0.8554	0.8568	1.2106	1.09	No
		Imputed value	0.75	1.61	0.88	-0.13	0.1015	0.0950	0.1390	0.95	No
		Mother's education attainment									
		No High School Diploma	11.41	18.03	12.43	-1.02	0.5097	0.5295	0.7349	1.39	No
		High School Graduate	26.83	26.11	26.72	0.11	0.4797	0.4994	0.6925	0.16	No
		2-year school, no degree	12.81	11.48	12.60	0.20	0.3480	0.3844	0.5185	0.39	No
		2-year school, degree	11.00	9.75	10.80	0.19	0.3301	0.3545	0.4844	0.40	No
		4-year school, no degree	10.26	8.83	10.04	0.22	0.2824	0.3111	0.4201	0.53	No
		4-year degree	16.76	12.18	16.05	0.71	0.4635	0.5086	0.6882	1.03	No
		Master's degree	6.19	3.60	5.79	0.40	0.2666	0.2966	0.3988	1.00	No
		Ph.D. degree	1.77	1.14	1.67	0.10	0.1432	0.1633	0.2172	0.45	No
		Imputed value	2.97	8.89	3.88	-0.91	0.2023	0.1809	0.2714	3.36	Yes
		School sector									
		Public	92.07	93.94	92.36	-0.29	0.2849	0.3055	0.4177	0.69	No
		Catholic	4.63	2.17	4.25	0.38	0.1608	0.1784	0.2402	1.57	No
		Other private	3.30	3.88	3.39	-0.09	0.2332	0.2434	0.3371	0.27	No
		School locale									
		Urban	29.04	36.24	30.15	-1.11	0.7480	0.8400	1.1248	0.99	No
		Suburban	51.01	46.10	50.26	0.76	0.7954	0.8920	1.1951	0.63	No
		Rural	19.94	17.66	19.59	0.35	0.6261	0.7097	0.9464	0.37	No
		School region									
		Northeast	18.90	16.52	18.54	0.37	0.6524	0.7648	1.0052	0.36	No
		Midwest	24.41	22.59	24.13	0.28	0.6474	0.7192	0.9677	0.29	No
		South	33.04	41.21	34.30	-1.26	0.6644	0.7357	0.9913	1.27	No
		West	23.65	19.68	23.04	0.61	0.8138	0.8920	1.2074	0.51	No
		Reading achievement									
		Low quartile	21.65	43.24	24.97	-3.33	0.7193	0.7065	1.0082	3.30	Yes
		Medium 2 quartiles	51.08	43.93	49.98	1.10	0.5700	0.5946	0.8237	1.34	No
		High quartile	27.27	12.84	25.05	2.22	0.6232	0.6936	0.9324	2.38	Yes
		Math achievement									
		Low quartile	21.94	41.47	24.95	-3.01	0.7432	0.7391	1.0482	2.87	Yes
		Medium quartile	51.09	44.20	50.03	1.06	0.5721	0.6164	0.8410	1.26	No
		High quartile	26.97	14.34	25.03	1.95	0.6786	0.7494	1.0109	1.93	No
		Home language									
		No (non-English)	12.75	17.93	13.55	-0.80	0.5852	0.6409	0.8678	0.92	No
		Yes (English)	86.77	71.13	84.36	2.41	0.6171	0.6472	0.8942	2.69	Yes
		Imputed value	0.47	10.93	2.08	-1.61	0.1964	0.0803	0.2122	7.59	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS85G	Parents limit time with friends	Sex									
		Male	48.38	61.06	50.43	-2.05	0.5303	0.5992	0.8002	2.56	Yes
		Female	51.57	38.84	49.52	2.06	0.5307	0.5997	0.8008	2.57	Yes
		Imputed value	0.04	0.10	0.05	-0.01	0.0215	0.0211	0.0301	0.32	No
		Race/ethnicity									
		American Indian	0.82	1.73	0.96	-0.15	0.1961	0.1755	0.2632	0.56	No
		Asian	3.87	4.30	3.94	-0.07	0.2519	0.2586	0.3610	0.19	No
		Black	12.55	23.84	14.37	-1.83	0.6567	0.6105	0.8966	2.04	Yes
		Multiracial	4.11	4.74	4.21	-0.10	0.2234	0.2408	0.3285	0.31	No
		White	63.97	41.04	60.27	3.71	0.9781	0.9920	1.3931	2.66	Yes
		Hispanic ethnicity	13.96	22.66	15.37	-1.41	0.8554	0.8555	1.2097	1.16	No
		Imputed value	0.73	1.69	0.88	-0.16	0.1015	0.0947	0.1388	1.12	No
		Mother's education attainment									
		No High School Diploma	11.37	17.95	12.43	-1.06	0.5097	0.5348	0.7387	1.44	No
		High School Graduate	26.71	26.75	26.72	-0.01	0.4797	0.5050	0.6965	0.01	No
		2-year school, no degree	12.83	11.44	12.60	0.22	0.3480	0.3922	0.5243	0.43	No
		2-year school, degree	11.13	9.10	10.80	0.33	0.3301	0.3621	0.4900	0.67	No
		4-year school, no degree	10.33	8.56	10.04	0.29	0.2824	0.3186	0.4257	0.67	No
		4-year degree	16.78	12.29	16.05	0.73	0.4635	0.5083	0.6879	1.05	No
		Master's degree	6.19	3.76	5.79	0.39	0.2666	0.2994	0.4009	0.98	No
		Ph.D. degree	1.75	1.28	1.67	0.08	0.1432	0.1633	0.2172	0.35	No
		Imputed value	2.92	8.87	3.88	-0.96	0.2023	0.1816	0.2719	3.53	Yes
		School sector									
		Public	92.05	93.97	92.36	-0.31	0.2849	0.3147	0.4245	0.73	No
		Catholic	4.64	2.20	4.25	0.40	0.1608	0.1826	0.2433	1.63	No
		Other private	3.30	3.84	3.39	-0.09	0.2332	0.2525	0.3438	0.25	No
		School locale									
		Urban	28.99	36.18	30.15	-1.16	0.7480	0.8605	1.1402	1.02	No
		Suburban	51.10	45.87	50.26	0.85	0.7954	0.9008	1.2017	0.70	No
		Rural	19.91	17.95	19.59	0.32	0.6261	0.7093	0.9461	0.34	No
		School region									
		Northeast	18.90	16.65	18.54	0.36	0.6524	0.7704	1.0095	0.36	No
		Midwest	24.58	21.77	24.13	0.45	0.6474	0.7320	0.9773	0.46	No
		South	32.82	41.97	34.30	-1.48	0.6644	0.7382	0.9932	1.49	No
		West	23.70	19.60	23.04	0.66	0.8138	0.9005	1.2137	0.55	No
		Reading achievement									
		Low quartile	21.51	42.95	24.97	-3.47	0.7193	0.7013	1.0045	3.45	Yes
		Medium 2 quartiles	51.14	43.98	49.98	1.16	0.5700	0.5968	0.8253	1.40	No
		High quartile	27.36	13.07	25.05	2.31	0.6232	0.7021	0.9388	2.46	Yes
		Math achievement									
		Low quartile	21.80	41.26	24.95	-3.15	0.7432	0.7331	1.0439	3.01	Yes
		Medium quartile	51.16	44.12	50.03	1.14	0.5721	0.6147	0.8397	1.36	No
		High quartile	27.03	14.62	25.03	2.01	0.6786	0.7523	1.0131	1.98	Yes
		Home language									
		No (non-English)	12.63	18.31	13.55	-0.92	0.5852	0.6365	0.8646	1.06	No
		Yes (English)	87.06	70.39	84.36	2.69	0.6171	0.6448	0.8925	3.02	Yes
		Imputed value	0.31	11.29	2.08	-1.78	0.1964	0.0686	0.2081	8.53	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS86A	How often discussed school courses with parents	Sex										
		Male	48.18	61.20	50.43	-2.26	0.5303	0.6087	0.8073	2.79	Yes	
		Female	51.77	38.74	49.52	2.26	0.5307	0.6097	0.8083	2.79	Yes	
		Imputed value	0.05	0.06	0.05	0.00	0.0215	0.0247	0.0328	0.06	No	
		Race/ethnicity										
		American Indian	0.81	1.72	0.96	-0.16	0.1961	0.1670	0.2575	0.61	No	
		Asian	3.82	4.51	3.94	-0.12	0.2519	0.2567	0.3597	0.33	No	
		Black	12.37	23.92	14.37	-2.00	0.6567	0.6082	0.8951	2.23	Yes	
		Multiracial	4.11	4.69	4.21	-0.10	0.2234	0.2422	0.3296	0.30	No	
		White	64.24	41.32	60.27	3.97	0.9781	0.9939	1.3945	2.85	Yes	
		Hispanic ethnicity	13.92	22.25	15.37	-1.44	0.8554	0.8529	1.2079	1.19	No	
		Imputed value	0.73	1.60	0.88	-0.15	0.1015	0.0958	0.1396	1.07	No	
		Mother's education attainment										
		No High School Diploma	11.33	17.70	12.43	-1.10	0.5097	0.5304	0.7356	1.50	No	
		High School Graduate	26.81	26.26	26.72	0.10	0.4797	0.5092	0.6996	0.14	No	
		2-year school, no degree	12.68	12.22	12.60	0.08	0.3480	0.3919	0.5241	0.15	No	
		2-year school, degree	11.04	9.70	10.80	0.23	0.3301	0.3629	0.4906	0.47	No	
		4-year school, no degree	10.31	8.74	10.04	0.27	0.2824	0.3136	0.4220	0.65	No	
		4-year degree	16.95	11.79	16.05	0.89	0.4635	0.5086	0.6881	1.30	No	
		Master's degree	6.25	3.60	5.79	0.46	0.2666	0.3018	0.4027	1.14	No	
		Ph.D. degree	1.78	1.17	1.67	0.11	0.1432	0.1663	0.2195	0.48	No	
		Imputed value	2.85	8.82	3.88	-1.03	0.2023	0.1856	0.2745	3.77	Yes	
		School sector										
		Public	92.02	93.99	92.36	-0.34	0.2849	0.3196	0.4281	0.80	No	
		Catholic	4.67	2.25	4.25	0.42	0.1608	0.1870	0.2466	1.70	No	
		Other private	3.31	3.76	3.39	-0.08	0.2332	0.2551	0.3457	0.23	No	
		School locale										
		Urban	28.93	35.98	30.15	-1.22	0.7480	0.8748	1.1510	1.06	No	
		Suburban	51.19	45.81	50.26	0.93	0.7954	0.9150	1.2124	0.77	No	
		Rural	19.88	18.21	19.59	0.29	0.6261	0.7219	0.9556	0.30	No	
		School region										
		Northeast	18.94	16.61	18.54	0.40	0.6524	0.7846	1.0204	0.40	No	
		Midwest	24.65	21.65	24.13	0.52	0.6474	0.7416	0.9844	0.53	No	
		South	32.60	42.40	34.30	-1.70	0.6644	0.7493	1.0015	1.69	No	
		West	23.81	19.35	23.04	0.77	0.8138	0.9127	1.2228	0.63	No	
		Reading achievement										
		Low quartile	21.15	43.21	24.97	-3.82	0.7193	0.7017	1.0049	3.80	Yes	
		Medium 2 quartiles	51.27	43.81	49.98	1.29	0.5700	0.5958	0.8245	1.57	No	
		High quartile	27.58	12.98	25.05	2.53	0.6232	0.7030	0.9395	2.69	Yes	
		Math achievement										
		Low quartile	21.60	40.93	24.95	-3.35	0.7432	0.7347	1.0451	3.20	Yes	
		Medium quartile	51.11	44.83	50.03	1.09	0.5721	0.6165	0.8411	1.29	No	
High quartile	27.29	14.23	25.03	2.26	0.6786	0.7541	1.0145	2.23	Yes			
Home language												
No (non-English)	12.52	18.49	13.55	-1.04	0.5852	0.6361	0.8643	1.20	No			
Yes (English)	87.24	70.65	84.36	2.87	0.6171	0.6450	0.8927	3.22	Yes			
Imputed value	0.25	10.85	2.08	-1.84	0.1964	0.0631	0.2063	8.90	Yes			

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS86B	How often discussed school activities with parents	Sex										
		Male	48.16	61.12	50.43	-2.27	0.5303	0.6090	0.8075	2.81	Yes	
		Female	51.79	38.82	49.52	2.27	0.5307	0.6100	0.8085	2.81	Yes	
		Imputed value	0.05	0.06	0.05	0.00	0.0215	0.0248	0.0328	0.05	No	
		Race/ethnicity										
		American Indian	0.83	1.59	0.96	-0.13	0.1961	0.1753	0.2630	0.51	No	
		Asian	3.85	4.35	3.94	-0.09	0.2519	0.2595	0.3617	0.24	No	
		Black	12.38	23.76	14.37	-1.99	0.6567	0.6081	0.8950	2.23	Yes	
		Multiracial	4.11	4.68	4.21	-0.10	0.2234	0.2425	0.3297	0.30	No	
		White	64.13	42.06	60.27	3.87	0.9781	0.9948	1.3951	2.77	Yes	
		Hispanic ethnicity	13.97	21.95	15.37	-1.40	0.8554	0.8530	1.2080	1.16	No	
		Imputed value	0.73	1.62	0.88	-0.16	0.1015	0.0964	0.1400	1.11	No	
		Mother's education attainment										
		No High School Diploma	11.36	17.45	12.43	-1.07	0.5097	0.5277	0.7336	1.45	No	
		High School Graduate	26.71	26.76	26.72	-0.01	0.4797	0.5119	0.7016	0.01	No	
		2-year school, no degree	12.67	12.30	12.60	0.06	0.3480	0.3930	0.5249	0.12	No	
		2-year school, degree	11.06	9.60	10.80	0.26	0.3301	0.3628	0.4905	0.52	No	
		4-year school, no degree	10.33	8.66	10.04	0.29	0.2824	0.3141	0.4224	0.70	No	
		4-year degree	17.00	11.62	16.05	0.94	0.4635	0.5108	0.6898	1.36	No	
		Master's degree	6.22	3.77	5.79	0.43	0.2666	0.3035	0.4040	1.06	No	
		Ph.D. degree	1.78	1.18	1.67	0.10	0.1432	0.1665	0.2196	0.48	No	
		Imputed value	2.87	8.67	3.88	-1.02	0.2023	0.1864	0.2751	3.69	Yes	
		School sector										
		Public	91.98	94.17	92.36	-0.38	0.2849	0.3148	0.4246	0.91	No	
		Catholic	4.69	2.19	4.25	0.44	0.1608	0.1833	0.2438	1.79	No	
		Other private	3.34	3.64	3.39	-0.05	0.2332	0.2515	0.3430	0.15	No	
		School locale										
		Urban	28.88	36.15	30.15	-1.27	0.7480	0.8684	1.1461	1.11	No	
		Suburban	51.27	45.50	50.26	1.01	0.7954	0.9082	1.2073	0.84	No	
		Rural	19.85	18.34	19.59	0.26	0.6261	0.7180	0.9526	0.28	No	
		School region										
		Northeast	19.03	16.20	18.54	0.50	0.6524	0.7741	1.0123	0.49	No	
		Midwest	24.65	21.69	24.13	0.52	0.6474	0.7349	0.9794	0.53	No	
		South	32.60	42.28	34.30	-1.70	0.6644	0.7457	0.9988	1.70	No	
		West	23.72	19.84	23.04	0.68	0.8138	0.9054	1.2174	0.56	No	
		Reading achievement										
		Low quartile	21.08	43.31	24.97	-3.89	0.7193	0.6992	1.0031	3.88	Yes	
		Medium 2 quartiles	51.26	43.95	49.98	1.28	0.5700	0.5934	0.8228	1.56	No	
		High quartile	27.66	12.75	25.05	2.61	0.6232	0.7049	0.9409	2.78	Yes	
		Math achievement										
		Low quartile	21.54	41.00	24.95	-3.41	0.7432	0.7272	1.0398	3.28	Yes	
		Medium quartile	51.10	44.95	50.03	1.08	0.5721	0.6149	0.8399	1.28	No	
High quartile	27.36	14.05	25.03	2.33	0.6786	0.7563	1.0161	2.29	Yes			
Home language												
No (non-English)	12.56	18.21	13.55	-0.99	0.5852	0.6447	0.8707	1.14	No			
Yes (English)	87.16	71.20	84.36	2.79	0.6171	0.6543	0.8994	3.11	Yes			
Imputed value	0.28	10.59	2.08	-1.80	0.1964	0.0662	0.2073	8.71	Yes			

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS86C	How often discuss things studied in class with parents	Sex										
		Male	48.14	60.98	50.43	-2.30	0.5303	0.6091	0.8076	2.84	Yes	
		Female	51.83	38.89	49.52	2.31	0.5307	0.6098	0.8084	2.86	Yes	
			Imputed value	0.04	0.13	0.05	-0.02	0.0215	0.0203	0.0296	0.54	No
			Race/ethnicity									
			American Indian	0.81	1.65	0.96	-0.15	0.1961	0.1751	0.2629	0.57	No
			Asian	3.80	4.56	3.94	-0.13	0.2519	0.2553	0.3586	0.38	No
			Black	12.30	23.89	14.37	-2.07	0.6567	0.6093	0.8958	2.31	Yes
			Multiracial	4.11	4.67	4.21	-0.10	0.2234	0.2426	0.3298	0.30	No
			White	64.38	41.38	60.27	4.11	0.9781	0.9966	1.3964	2.94	Yes
			Hispanic ethnicity	13.88	22.20	15.37	-1.49	0.8554	0.8578	1.2114	1.23	No
			Imputed value	0.72	1.64	0.88	-0.17	0.1015	0.0961	0.1398	1.19	No
			Mother's education attainment									
			No High School Diploma	11.29	17.65	12.43	-1.14	0.5097	0.5326	0.7372	1.54	No
			High School Graduate	26.69	26.85	26.72	-0.03	0.4797	0.5119	0.7016	0.04	No
			2-year school, no degree	12.68	12.26	12.60	0.07	0.3480	0.3966	0.5276	0.14	No
			2-year school, degree	11.06	9.63	10.80	0.26	0.3301	0.3653	0.4924	0.52	No
			4-year school, no degree	10.36	8.57	10.04	0.32	0.2824	0.3152	0.4232	0.76	No
			4-year degree	17.02	11.62	16.05	0.97	0.4635	0.5084	0.6880	1.40	No
			Master's degree	6.28	3.55	5.79	0.49	0.2666	0.3037	0.4041	1.21	No
			Ph.D. degree	1.79	1.12	1.67	0.12	0.1432	0.1674	0.2203	0.55	No
			Imputed value	2.82	8.76	3.88	-1.06	0.2023	0.1877	0.2760	3.85	Yes
			School sector									
			Public	91.96	94.22	92.36	-0.41	0.2849	0.3185	0.4274	0.95	No
			Catholic	4.69	2.21	4.25	0.44	0.1608	0.1860	0.2459	1.80	No
			Other private	3.35	3.56	3.39	-0.04	0.2332	0.2541	0.3449	0.11	No
			School locale									
			Urban	28.85	36.15	30.15	-1.31	0.7480	0.8769	1.1526	1.13	No
			Suburban	51.23	45.77	50.26	0.98	0.7954	0.9176	1.2143	0.81	No
			Rural	19.92	18.08	19.59	0.33	0.6261	0.7277	0.9599	0.34	No
			School region									
			Northeast	19.00	16.39	18.54	0.47	0.6524	0.7870	1.0222	0.46	No
			Midwest	24.66	21.70	24.13	0.53	0.6474	0.7420	0.9847	0.54	No
			South	32.58	42.20	34.30	-1.72	0.6644	0.7514	1.0030	1.72	No
			West	23.76	19.71	23.04	0.72	0.8138	0.9147	1.2243	0.59	No
			Reading achievement									
			Low quartile	21.04	43.03	24.97	-3.93	0.7193	0.7008	1.0042	3.92	Yes
			Medium 2 quartiles	51.26	44.08	49.98	1.28	0.5700	0.5973	0.8256	1.56	No
			High quartile	27.70	12.89	25.05	2.65	0.6232	0.7035	0.9399	2.82	Yes
			Math achievement									
			Low quartile	21.51	40.74	24.95	-3.44	0.7432	0.7345	1.0449	3.29	Yes
			Medium quartile	51.10	45.08	50.03	1.08	0.5721	0.6177	0.8419	1.28	No
			High quartile	27.39	14.18	25.03	2.36	0.6786	0.7539	1.0143	2.33	Yes
			Home language									
			No (non-English)	12.53	18.25	13.55	-1.02	0.5852	0.6405	0.8676	1.18	No
			Yes (English)	87.22	71.26	84.36	2.85	0.6171	0.6497	0.8960	3.18	Yes
			Imputed value	0.25	10.49	2.08	-1.83	0.1964	0.0637	0.2065	8.87	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS86D	How often discussed grades with parents	Sex										
		Male	48.13	61.06	50.43	-2.30	0.5303	0.6080	0.8068	2.85	Yes	
		Female	51.82	38.88	49.52	2.30	0.5307	0.6090	0.8078	2.85	Yes	
		Imputed value	0.05	0.06	0.05	0.00	0.0215	0.0249	0.0329	0.05	No	
		Race/ethnicity										
		American Indian	0.83	1.57	0.96	-0.13	0.1961	0.1759	0.2634	0.50	No	
		Asian	3.85	4.32	3.94	-0.08	0.2519	0.2578	0.3604	0.23	No	
		Black	12.35	23.72	14.37	-2.02	0.6567	0.6091	0.8957	2.26	Yes	
		Multiracial	4.11	4.65	4.21	-0.10	0.2234	0.2417	0.3292	0.29	No	
		White	64.26	41.85	60.27	3.99	0.9781	0.9976	1.3971	2.86	Yes	
		Hispanic ethnicity	13.89	22.18	15.37	-1.48	0.8554	0.8482	1.2046	1.23	No	
		Imputed value	0.70	1.71	0.88	-0.18	0.1015	0.0949	0.1390	1.29	No	
		Mother's education attainment										
		No High School Diploma	11.30	17.63	12.43	-1.13	0.5097	0.5279	0.7337	1.54	No	
		High School Graduate	26.72	26.70	26.72	0.00	0.4797	0.5111	0.7010	0.01	No	
		2-year school, no degree	12.60	12.61	12.60	0.00	0.3480	0.3934	0.5252	0.00	No	
		2-year school, degree	11.09	9.50	10.80	0.28	0.3301	0.3644	0.4917	0.57	No	
		4-year school, no degree	10.33	8.71	10.04	0.29	0.2824	0.3182	0.4254	0.68	No	
		4-year degree	17.03	11.55	16.05	0.98	0.4635	0.5108	0.6897	1.42	No	
		Master's degree	6.28	3.56	5.79	0.48	0.2666	0.3017	0.4026	1.20	No	
		Ph.D. degree	1.78	1.20	1.67	0.10	0.1432	0.1664	0.2196	0.47	No	
		Imputed value	2.87	8.55	3.88	-1.01	0.2023	0.1882	0.2763	3.66	Yes	
		School sector										
		Public	91.96	94.22	92.36	-0.40	0.2849	0.3193	0.4279	0.94	No	
		Catholic	4.69	2.21	4.25	0.44	0.1608	0.1852	0.2452	1.80	No	
		Other private	3.35	3.57	3.39	-0.04	0.2332	0.2562	0.3465	0.11	No	
		School locale										
		Urban	28.83	36.29	30.15	-1.33	0.7480	0.8639	1.1427	1.16	No	
		Suburban	51.22	45.81	50.26	0.96	0.7954	0.9083	1.2073	0.80	No	
		Rural	19.95	17.91	19.59	0.36	0.6261	0.7262	0.9588	0.38	No	
		School region										
		Northeast	18.97	16.52	18.54	0.44	0.6524	0.7705	1.0096	0.43	No	
		Midwest	24.74	21.30	24.13	0.61	0.6474	0.7361	0.9803	0.62	No	
		South	32.60	42.13	34.30	-1.70	0.6644	0.7450	0.9982	1.70	No	
		West	23.68	20.04	23.04	0.65	0.8138	0.9084	1.2196	0.53	No	
		Reading achievement										
		Low quartile	21.13	42.72	24.97	-3.84	0.7193	0.7024	1.0053	3.82	Yes	
		Medium 2 quartiles	51.21	44.27	49.98	1.24	0.5700	0.6003	0.8278	1.49	No	
		High quartile	27.65	13.02	25.05	2.61	0.6232	0.7031	0.9395	2.77	Yes	
		Math achievement										
		Low quartile	21.58	40.52	24.95	-3.37	0.7432	0.7322	1.0433	3.23	Yes	
		Medium quartile	51.10	45.04	50.03	1.08	0.5721	0.6195	0.8433	1.28	No	
		High quartile	27.32	14.43	25.03	2.29	0.6786	0.7525	1.0133	2.26	Yes	
		Home language										
		No (non-English)	12.47	18.54	13.55	-1.08	0.5852	0.6299	0.8598	1.26	No	
		Yes (English)	87.24	71.10	84.36	2.87	0.6171	0.6390	0.8883	3.23	Yes	
		Imputed value	0.29	10.36	2.08	-1.79	0.1964	0.0667	0.2075	8.64	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS86E	How often discussed transferring with parents	Sex										
		Male	48.26	60.08	50.43	-2.17	0.5303	0.6113	0.8093	2.68	Yes	
		Female	51.68	39.89	49.52	2.17	0.5307	0.6121	0.8102	2.67	Yes	
			Imputed value	0.06	0.03	0.05	0.01	0.0215	0.0261	0.0338	0.18	No
			Race/ethnicity									
			American Indian	0.80	1.68	0.96	-0.16	0.1961	0.1688	0.2588	0.62	No
			Asian	3.85	4.32	3.94	-0.09	0.2519	0.2608	0.3626	0.24	No
			Black	12.23	23.90	14.37	-2.14	0.6567	0.6098	0.8962	2.39	Yes
			Multiracial	4.10	4.68	4.21	-0.11	0.2234	0.2433	0.3304	0.32	No
			White	64.46	41.61	60.27	4.20	0.9781	0.9922	1.3933	3.01	Yes
			Hispanic ethnicity	13.82	22.23	15.37	-1.54	0.8554	0.8482	1.2046	1.28	No
			Imputed value	0.73	1.58	0.88	-0.16	0.1015	0.0967	0.1402	1.12	No
			Mother's education attainment									
			No High School Diploma	11.27	17.60	12.43	-1.16	0.5097	0.5280	0.7339	1.58	No
			High School Graduate	26.81	26.31	26.72	0.09	0.4797	0.5117	0.7015	0.13	No
			2-year school, no degree	12.66	12.36	12.60	0.05	0.3480	0.3980	0.5286	0.10	No
			2-year school, degree	11.02	9.85	10.80	0.21	0.3301	0.3643	0.4916	0.43	No
			4-year school, no degree	10.33	8.74	10.04	0.29	0.2824	0.3174	0.4248	0.69	No
			4-year degree	17.01	11.80	16.05	0.96	0.4635	0.5105	0.6896	1.39	No
			Master's degree	6.30	3.57	5.79	0.50	0.2666	0.3041	0.4044	1.24	No
			Ph.D. degree	1.78	1.22	1.67	0.10	0.1432	0.1678	0.2206	0.47	No
			Imputed value	2.83	8.55	3.88	-1.05	0.2023	0.1871	0.2755	3.81	Yes
			School sector									
			Public	91.96	94.13	92.36	-0.40	0.2849	0.3156	0.4252	0.94	No
			Catholic	4.70	2.26	4.25	0.45	0.1608	0.1869	0.2465	1.82	No
			Other private	3.34	3.61	3.39	-0.05	0.2332	0.2497	0.3416	0.15	No
			School locale									
			Urban	28.76	36.36	30.15	-1.40	0.7480	0.8663	1.1445	1.22	No
			Suburban	51.30	45.64	50.26	1.04	0.7954	0.9120	1.2101	0.86	No
			Rural	19.95	18.01	19.59	0.36	0.6261	0.7228	0.9563	0.37	No
			School region									
			Northeast	18.97	16.61	18.54	0.43	0.6524	0.7858	1.0213	0.43	No
			Midwest	24.63	21.90	24.13	0.50	0.6474	0.7383	0.9820	0.51	No
			South	32.61	41.80	34.30	-1.69	0.6644	0.7483	1.0006	1.69	No
			West	23.79	19.69	23.04	0.75	0.8138	0.9053	1.2173	0.62	No
			Reading achievement									
			Low quartile	21.02	42.54	24.97	-3.95	0.7193	0.7000	1.0037	3.94	Yes
			Medium 2 quartiles	51.30	44.09	49.98	1.33	0.5700	0.5952	0.8241	1.61	No
			High quartile	27.68	13.37	25.05	2.63	0.6232	0.7020	0.9387	2.80	Yes
			Math achievement									
			Low quartile	21.47	40.42	24.95	-3.48	0.7432	0.7333	1.0441	3.33	Yes
			Medium quartile	51.08	45.34	50.03	1.05	0.5721	0.6164	0.8410	1.25	No
			High quartile	27.45	14.24	25.03	2.43	0.6786	0.7598	1.0187	2.38	Yes
			Home language									
			No (non-English)	12.38	18.77	13.55	-1.17	0.5852	0.6281	0.8584	1.37	No
			Yes (English)	87.37	71.00	84.36	3.01	0.6171	0.6377	0.8874	3.39	Yes
			Imputed value	0.25	10.23	2.08	-1.83	0.1964	0.0640	0.2066	8.87	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS86F	How often discussed prep for ACT/SAT with parents	Sex									
		Male	48.19	60.54	50.43	-2.24	0.5303	0.6090	0.8076	2.77	Yes
		Female	51.77	39.34	49.52	2.25	0.5307	0.6097	0.8083	2.79	Yes
		Imputed value	0.04	0.12	0.05	-0.02	0.0215	0.0203	0.0296	0.54	No
		Race/ethnicity									
		American Indian	0.84	1.54	0.96	-0.13	0.1961	0.1766	0.2639	0.48	No
		Asian	3.85	4.34	3.94	-0.09	0.2519	0.2577	0.3604	0.25	No
		Black	12.35	23.51	14.37	-2.02	0.6567	0.6098	0.8962	2.26	Yes
		Multiracial	4.03	5.01	4.21	-0.18	0.2234	0.2395	0.3275	0.54	No
		White	64.39	41.64	60.27	4.13	0.9781	0.9891	1.3911	2.97	Yes
		Hispanic ethnicity	13.82	22.35	15.37	-1.55	0.8554	0.8434	1.2012	1.29	No
		Imputed value	0.72	1.61	0.88	-0.16	0.1015	0.0962	0.1399	1.15	No
		Mother's education attainment									
		No High School Diploma	11.32	17.45	12.43	-1.11	0.5097	0.5278	0.7337	1.51	No
		High School Graduate	26.68	26.87	26.72	-0.03	0.4797	0.5119	0.7015	0.05	No
		2-year school, no degree	12.63	12.48	12.60	0.03	0.3480	0.3908	0.5232	0.05	No
		2-year school, degree	11.08	9.54	10.80	0.28	0.3301	0.3637	0.4911	0.57	No
		4-year school, no degree	10.37	8.56	10.04	0.33	0.2824	0.3194	0.4263	0.77	No
		4-year degree	16.92	12.14	16.05	0.87	0.4635	0.5085	0.6881	1.26	No
		Master's degree	6.31	3.47	5.79	0.52	0.2666	0.3033	0.4038	1.28	No
		Ph.D. degree	1.77	1.22	1.67	0.10	0.1432	0.1670	0.2200	0.46	No
		Imputed value	2.91	8.27	3.88	-0.97	0.2023	0.1905	0.2778	3.49	Yes
		School sector									
		Public	91.98	94.08	92.36	-0.38	0.2849	0.3179	0.4269	0.89	No
		Catholic	4.69	2.25	4.25	0.44	0.1608	0.1856	0.2456	1.80	No
		Other private	3.33	3.67	3.39	-0.06	0.2332	0.2544	0.3451	0.18	No
		School locale									
		Urban	28.86	36.01	30.15	-1.30	0.7480	0.8600	1.1398	1.14	No
		Suburban	51.21	45.96	50.26	0.95	0.7954	0.9037	1.2039	0.79	No
		Rural	19.94	18.02	19.59	0.35	0.6261	0.7118	0.9480	0.37	No
		School region									
		Northeast	18.96	16.65	18.54	0.42	0.6524	0.7775	1.0149	0.41	No
		Midwest	24.69	21.58	24.13	0.56	0.6474	0.7288	0.9749	0.58	No
		South	32.62	41.87	34.30	-1.68	0.6644	0.7394	0.9940	1.69	No
		West	23.73	19.91	23.04	0.69	0.8138	0.9028	1.2155	0.57	No
		Reading achievement									
		Low quartile	21.11	42.44	24.97	-3.87	0.7193	0.7033	1.0060	3.84	Yes
		Medium 2 quartiles	51.25	44.25	49.98	1.27	0.5700	0.6013	0.8285	1.53	No
		High quartile	27.65	13.32	25.05	2.60	0.6232	0.7029	0.9394	2.77	Yes
		Math achievement									
		Low quartile	21.49	40.59	24.95	-3.46	0.7432	0.7290	1.0410	3.33	Yes
		Medium quartile	51.20	44.71	50.03	1.18	0.5721	0.6168	0.8413	1.40	No
		High quartile	27.31	14.70	25.03	2.29	0.6786	0.7548	1.0150	2.25	Yes
		Home language									
		No (non-English)	12.47	18.43	13.55	-1.08	0.5852	0.6306	0.8603	1.26	No
		Yes (English)	87.25	71.33	84.36	2.89	0.6171	0.6398	0.8889	3.25	Yes
		Imputed value	0.28	10.24	2.08	-1.81	0.1964	0.0675	0.2077	8.69	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS86G	How often discussed going to college with parents	Sex										
		Male	48.13	60.62	50.43	-2.30	0.5303	0.6140	0.8113	2.84	Yes	
		Female	51.82	39.32	49.52	2.31	0.5307	0.6151	0.8124	2.84	Yes	
		Imputed value	0.05	0.06	0.05	0.00	0.0215	0.0251	0.0330	0.04	No	
		Race/ethnicity										
		American Indian	0.82	1.60	0.96	-0.14	0.1961	0.1762	0.2636	0.55	No	
		Asian	3.83	4.39	3.94	-0.10	0.2519	0.2590	0.3613	0.29	No	
		Black	12.25	23.77	14.37	-2.13	0.6567	0.6094	0.8959	2.37	Yes	
		Multiracial	4.11	4.64	4.21	-0.10	0.2234	0.2430	0.3301	0.29	No	
		White	64.45	41.79	60.27	4.18	0.9781	0.9907	1.3922	3.00	Yes	
		Hispanic ethnicity	13.82	22.20	15.37	-1.55	0.8554	0.8522	1.2074	1.28	No	
		Imputed value	0.72	1.60	0.88	-0.16	0.1015	0.0970	0.1404	1.15	No	
		Mother's education attainment										
		No High School Diploma	11.25	17.64	12.43	-1.18	0.5097	0.5299	0.7352	1.60	No	
		High School Graduate	26.77	26.49	26.72	0.05	0.4797	0.5095	0.6999	0.07	No	
		2-year school, no degree	12.64	12.44	12.60	0.04	0.3480	0.3921	0.5243	0.07	No	
		2-year school, degree	11.04	9.78	10.80	0.23	0.3301	0.3649	0.4920	0.47	No	
		4-year school, no degree	10.35	8.68	10.04	0.31	0.2824	0.3157	0.4235	0.73	No	
		4-year degree	17.01	11.83	16.05	0.96	0.4635	0.5126	0.6911	1.38	No	
		Master's degree	6.30	3.57	5.79	0.50	0.2666	0.3033	0.4038	1.25	No	
		Ph.D. degree	1.79	1.15	1.67	0.12	0.1432	0.1681	0.2208	0.53	No	
		Imputed value	2.86	8.42	3.88	-1.03	0.2023	0.1882	0.2763	3.72	Yes	
		School sector										
		Public	91.95	94.20	92.36	-0.42	0.2849	0.3182	0.4271	0.97	No	
		Catholic	4.71	2.20	4.25	0.46	0.1608	0.1873	0.2469	1.88	No	
		Other private	3.34	3.60	3.39	-0.05	0.2332	0.2527	0.3439	0.14	No	
		School locale										
		Urban	28.79	36.17	30.15	-1.36	0.7480	0.8669	1.1450	1.19	No	
		Suburban	51.28	45.71	50.26	1.03	0.7954	0.9147	1.2122	0.85	No	
		Rural	19.92	18.12	19.59	0.33	0.6261	0.7306	0.9622	0.35	No	
		School region										
		Northeast	18.92	16.84	18.54	0.38	0.6524	0.7832	1.0193	0.38	No	
		Midwest	24.66	21.80	24.13	0.53	0.6474	0.7429	0.9855	0.54	No	
		South	32.60	41.80	34.30	-1.70	0.6644	0.7462	0.9991	1.70	No	
		West	23.82	19.56	23.04	0.79	0.8138	0.9142	1.2240	0.64	No	
		Reading achievement										
		Low quartile	21.10	42.10	24.97	-3.88	0.7193	0.7026	1.0055	3.85	Yes	
		Medium 2 quartiles	51.26	44.30	49.98	1.28	0.5700	0.6004	0.8279	1.55	No	
		High quartile	27.64	13.59	25.05	2.59	0.6232	0.7022	0.9388	2.76	Yes	
		Math achievement										
		Low quartile	21.55	39.95	24.95	-3.39	0.7432	0.7348	1.0451	3.25	Yes	
		Medium quartile	51.07	45.39	50.03	1.05	0.5721	0.6140	0.8392	1.25	No	
High quartile	27.37	14.66	25.03	2.35	0.6786	0.7512	1.0123	2.32	Yes			
Home language												
No (non-English)	12.47	18.34	13.55	-1.08	0.5852	0.6335	0.8624	1.26	No			
Yes (English)	87.30	71.41	84.36	2.93	0.6171	0.6426	0.8909	3.29	Yes			
Imputed value	0.24	10.25	2.08	-1.85	0.1964	0.0613	0.2058	8.98	Yes			

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS86H	How often discussed current events with parents	Sex									
		Male	48.29	59.99	50.43	-2.14	0.5303	0.6108	0.8089	2.65	Yes
		Female	51.66	39.95	49.52	2.14	0.5307	0.6119	0.8100	2.65	Yes
		Imputed value	0.05	0.06	0.05	0.00	0.0215	0.0250	0.0330	0.04	No
		Race/ethnicity									
		American Indian	0.84	1.52	0.96	-0.13	0.1961	0.1769	0.2641	0.48	No
		Asian	3.86	4.30	3.94	-0.08	0.2519	0.2587	0.3611	0.23	No
		Black	12.29	23.67	14.37	-2.08	0.6567	0.6172	0.9012	2.31	Yes
		Multiracial	4.07	4.83	4.21	-0.14	0.2234	0.2377	0.3262	0.43	No
		White	64.35	42.03	60.27	4.08	0.9781	1.0003	1.3990	2.92	Yes
		Hispanic ethnicity	13.86	22.08	15.37	-1.50	0.8554	0.8496	1.2056	1.25	No
		Imputed value	0.73	1.56	0.88	-0.15	0.1015	0.0972	0.1405	1.08	No
		Mother's education attainment									
		No High School Diploma	11.22	17.81	12.43	-1.21	0.5097	0.5298	0.7351	1.64	No
		High School Graduate	26.74	26.62	26.72	0.02	0.4797	0.5109	0.7008	0.03	No
		2-year school, no degree	12.65	12.38	12.60	0.05	0.3480	0.3978	0.5285	0.09	No
		2-year school, degree	11.00	9.93	10.80	0.19	0.3301	0.3585	0.4874	0.40	No
		4-year school, no degree	10.42	8.35	10.04	0.38	0.2824	0.3205	0.4271	0.89	No
		4-year degree	16.96	12.01	16.05	0.91	0.4635	0.5100	0.6891	1.32	No
		Master's degree	6.30	3.53	5.79	0.51	0.2666	0.3041	0.4044	1.25	No
		Ph.D. degree	1.78	1.19	1.67	0.11	0.1432	0.1671	0.2201	0.49	No
		Imputed value	2.92	8.17	3.88	-0.96	0.2023	0.1903	0.2777	3.46	Yes
		School sector									
		Public	91.97	94.13	92.36	-0.40	0.2849	0.3206	0.4289	0.92	No
		Catholic	4.69	2.26	4.25	0.45	0.1608	0.1877	0.2472	1.80	No
		Other private	3.34	3.61	3.39	-0.05	0.2332	0.2557	0.3461	0.14	No
		School locale									
		Urban	28.84	36.01	30.15	-1.31	0.7480	0.8751	1.1512	1.14	No
		Suburban	51.28	45.71	50.26	1.02	0.7954	0.9158	1.2130	0.84	No
		Rural	19.88	18.28	19.59	0.29	0.6261	0.7282	0.9603	0.31	No
		School region									
		Northeast	18.94	16.72	18.54	0.41	0.6524	0.7852	1.0209	0.40	No
		Midwest	24.69	21.63	24.13	0.56	0.6474	0.7382	0.9819	0.57	No
		South	32.60	41.87	34.30	-1.70	0.6644	0.7513	1.0029	1.69	No
		West	23.77	19.78	23.04	0.73	0.8138	0.9136	1.2235	0.60	No
		Reading achievement									
		Low quartile	21.05	42.49	24.97	-3.92	0.7193	0.7070	1.0085	3.89	Yes
		Medium 2 quartiles	51.30	44.10	49.98	1.32	0.5700	0.6037	0.8302	1.59	No
		High quartile	27.65	13.41	25.05	2.61	0.6232	0.7025	0.9390	2.78	Yes
		Math achievement									
		Low quartile	21.48	40.43	24.95	-3.47	0.7432	0.7324	1.0434	3.32	Yes
		Medium quartile	51.16	44.98	50.03	1.13	0.5721	0.6194	0.8432	1.34	No
	High quartile	27.36	14.59	25.03	2.34	0.6786	0.7547	1.0149	2.30	Yes	
	Home language										
	No (non-English)	12.49	18.29	13.55	-1.06	0.5852	0.6373	0.8652	1.23	No	
	Yes (English)	87.20	71.71	84.36	2.84	0.6171	0.6474	0.8944	3.17	Yes	
	Imputed value	0.31	10.00	2.08	-1.77	0.1964	0.0698	0.2085	8.51	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS86I	How often discussed troubling things with parents	Sex									
		Male	48.13	60.47	50.43	-2.30	0.5303	0.6165	0.8132	2.83	Yes
		Female	51.82	39.44	49.52	2.31	0.5307	0.6170	0.8138	2.84	Yes
		Imputed value	0.04	0.09	0.05	-0.01	0.0215	0.0217	0.0306	0.28	No
		Race/ethnicity									
		American Indian	0.82	1.59	0.96	-0.14	0.1961	0.1767	0.2639	0.54	No
		Asian	3.85	4.33	3.94	-0.09	0.2519	0.2577	0.3604	0.25	No
		Black	12.26	23.62	14.37	-2.12	0.6567	0.6081	0.8950	2.37	Yes
		Multiracial	4.06	4.88	4.21	-0.15	0.2234	0.2380	0.3265	0.47	No
		White	64.43	42.09	60.27	4.16	0.9781	0.9984	1.3977	2.98	Yes
		Hispanic ethnicity	13.87	21.91	15.37	-1.50	0.8554	0.8566	1.2106	1.24	No
		Imputed value	0.72	1.58	0.88	-0.16	0.1015	0.0968	0.1403	1.14	No
		Mother's education attainment									
		No High School Diploma	11.29	17.41	12.43	-1.14	0.5097	0.5352	0.7390	1.54	No
		High School Graduate	26.79	26.42	26.72	0.07	0.4797	0.5100	0.7002	0.10	No
		2-year school, no degree	12.69	12.21	12.60	0.09	0.3480	0.3964	0.5274	0.17	No
		2-year school, degree	11.01	9.88	10.80	0.21	0.3301	0.3606	0.4889	0.43	No
		4-year school, no degree	10.35	8.70	10.04	0.31	0.2824	0.3192	0.4262	0.72	No
		4-year degree	16.96	12.08	16.05	0.91	0.4635	0.5114	0.6902	1.32	No
		Master's degree	6.32	3.51	5.79	0.52	0.2666	0.3049	0.4050	1.29	No
		Ph.D. degree	1.77	1.27	1.67	0.09	0.1432	0.1670	0.2200	0.42	No
		Imputed value	2.82	8.52	3.88	-1.06	0.2023	0.1878	0.2760	3.84	Yes
		School sector									
		Public	91.95	94.14	92.36	-0.41	0.2849	0.3143	0.4242	0.96	No
		Catholic	4.72	2.20	4.25	0.47	0.1608	0.1881	0.2475	1.90	No
		Other private	3.33	3.66	3.39	-0.06	0.2332	0.2468	0.3395	0.18	No
		School locale									
		Urban	28.81	36.04	30.15	-1.35	0.7480	0.8721	1.1490	1.17	No
		Suburban	51.20	46.13	50.26	0.95	0.7954	0.9140	1.2116	0.78	No
		Rural	19.99	17.83	19.59	0.40	0.6261	0.7206	0.9546	0.42	No
		School region									
		Northeast	18.96	16.68	18.54	0.42	0.6524	0.7834	1.0195	0.42	No
		Midwest	24.64	21.89	24.13	0.51	0.6474	0.7364	0.9805	0.52	No
		South	32.62	41.64	34.30	-1.68	0.6644	0.7485	1.0008	1.68	No
		West	23.78	19.79	23.04	0.74	0.8138	0.9152	1.2247	0.61	No
		Reading achievement									
		Low quartile	21.01	42.30	24.97	-3.97	0.7193	0.7070	1.0086	3.93	Yes
		Medium 2 quartiles	51.35	43.99	49.98	1.37	0.5700	0.5991	0.8269	1.66	No
		High quartile	27.64	13.71	25.05	2.60	0.6232	0.7024	0.9390	2.76	Yes
		Math achievement									
		Low quartile	21.43	40.32	24.95	-3.52	0.7432	0.7360	1.0460	3.37	Yes
		Medium quartile	51.25	44.70	50.03	1.22	0.5721	0.6173	0.8416	1.45	No
		High quartile	27.33	14.98	25.03	2.30	0.6786	0.7544	1.0147	2.27	Yes
		Home language									
		No (non-English)	12.44	18.41	13.55	-1.11	0.5852	0.6389	0.8664	1.28	No
		Yes (English)	87.32	71.44	84.36	2.96	0.6171	0.6478	0.8947	3.31	Yes
		Imputed value	0.24	10.15	2.08	-1.85	0.1964	0.0614	0.2058	8.98	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS87A	Gets totally absorbed in mathematics	Sex										
		Male	47.99	58.77	50.43	-2.44	0.5303	0.6318	0.8249	2.96	Yes	
		Female	51.94	41.22	49.52	2.43	0.5307	0.6328	0.8259	2.94	Yes	
		Imputed value	0.07	0.01	0.05	0.01	0.0215	0.0277	0.0351	0.36	No	
		Race/ethnicity										
		American Indian	0.82	1.47	0.96	-0.15	0.1961	0.1817	0.2673	0.55	No	
		Asian	3.89	4.12	3.94	-0.05	0.2519	0.2733	0.3717	0.14	No	
		Black	11.91	22.79	14.37	-2.46	0.6567	0.6220	0.9045	2.72	Yes	
		Multiracial	4.22	4.16	4.21	0.01	0.2234	0.2460	0.3323	0.04	No	
		White	64.55	45.62	60.27	4.29	0.9781	1.0191	1.4125	3.03	Yes	
		Hispanic ethnicity	13.90	20.38	15.37	-1.47	0.8554	0.8783	1.2260	1.20	No	
		Imputed value	0.71	1.47	0.88	-0.17	0.1015	0.1006	0.1429	1.20	No	
		Mother's education attainment										
		No High School Diploma	11.26	16.42	12.43	-1.17	0.5097	0.5370	0.7403	1.58	No	
		High School Graduate	26.76	26.58	26.72	0.04	0.4797	0.5222	0.7091	0.06	No	
		2-year school, no degree	12.83	11.82	12.60	0.23	0.3480	0.4082	0.5364	0.43	No	
		2-year school, degree	10.88	10.55	10.80	0.07	0.3301	0.3746	0.4993	0.15	No	
		4-year school, no degree	10.05	10.00	10.04	0.01	0.2824	0.3353	0.4383	0.02	No	
		4-year degree	17.15	12.32	16.05	1.09	0.4635	0.5330	0.7064	1.55	No	
		Master's degree	6.18	4.46	5.79	0.39	0.2666	0.3080	0.4073	0.96	No	
		Ph.D. degree	1.81	1.21	1.67	0.14	0.1432	0.1695	0.2219	0.61	No	
		Imputed value	3.08	6.62	3.88	-0.80	0.2023	0.2004	0.2847	2.82	Yes	
		School sector										
		Public	91.96	93.73	92.36	-0.40	0.2849	0.3480	0.4498	0.89	No	
		Catholic	4.69	2.74	4.25	0.44	0.1608	0.1958	0.2534	1.75	No	
		Other private	3.35	3.53	3.39	-0.04	0.2332	0.2857	0.3688	0.11	No	
		School locale										
		Urban	28.68	35.18	30.15	-1.47	0.7480	0.9043	1.1736	1.25	No	
		Suburban	51.62	45.62	50.26	1.36	0.7954	0.9509	1.2397	1.10	No	
		Rural	19.70	19.20	19.59	0.11	0.6261	0.7544	0.9804	0.11	No	
		School region										
		Northeast	19.14	16.48	18.54	0.60	0.6524	0.8072	1.0379	0.58	No	
		Midwest	24.60	22.51	24.13	0.47	0.6474	0.7658	1.0028	0.47	No	
		South	32.07	41.90	34.30	-2.22	0.6644	0.7805	1.0250	2.17	Yes	
		West	24.18	19.12	23.04	1.15	0.8138	0.9471	1.2487	0.92	No	
		Reading achievement										
		Low quartile	21.69	36.21	24.97	-3.29	0.7193	0.7194	1.0173	3.23	Yes	
		Medium 2 quartiles	50.39	48.58	49.98	0.41	0.5700	0.6144	0.8381	0.49	No	
		High quartile	27.93	15.21	25.05	2.88	0.6232	0.7310	0.9606	3.00	Yes	
		Math achievement										
		Low quartile	22.00	35.01	24.95	-2.94	0.7432	0.7445	1.0520	2.80	Yes	
		Medium quartile	50.14	49.63	50.03	0.11	0.5721	0.6217	0.8448	0.14	No	
High quartile	27.86	15.36	25.03	2.83	0.6786	0.7782	1.0325	2.74	Yes			
Home language												
No (non-English)	12.53	17.04	13.55	-1.02	0.5852	0.6551	0.8784	1.16	No			
Yes (English)	87.14	74.88	84.36	2.78	0.6171	0.6668	0.9085	3.06	Yes			
Imputed value	0.33	8.08	2.08	-1.75	0.1964	0.0758	0.2105	8.33	Yes			

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS87B	Thinks reading is fun	Sex										
		Male	48.15	58.43	50.43	-2.28	0.5303	0.6269	0.8211	2.78	Yes	
		Female	51.78	41.56	49.52	2.27	0.5307	0.6279	0.8221	2.76	Yes	
		Imputed value	0.07	0.01	0.05	0.01	0.0215	0.0276	0.0350	0.36	No	
		Race/ethnicity										
		American Indian	0.81	1.51	0.96	-0.16	0.1961	0.1809	0.2668	0.59	No	
		Asian	3.90	4.08	3.94	-0.04	0.2519	0.2765	0.3741	0.11	No	
		Black	12.00	22.71	14.37	-2.38	0.6567	0.6286	0.9091	2.62	Yes	
		Multiracial	4.24	4.11	4.21	0.03	0.2234	0.2469	0.3330	0.09	No	
		White	64.46	45.58	60.27	4.19	0.9781	1.0169	1.4110	2.97	Yes	
		Hispanic ethnicity	13.88	20.58	15.37	-1.49	0.8554	0.8701	1.2201	1.22	No	
		Imputed value	0.73	1.44	0.88	-0.16	0.1015	0.0960	0.1397	1.13	No	
		Mother's education attainment										
		No High School Diploma	11.30	16.40	12.43	-1.13	0.5097	0.5324	0.7370	1.54	No	
		High School Graduate	26.71	26.75	26.72	-0.01	0.4797	0.5239	0.7104	0.02	No	
		2-year school, no degree	12.82	11.82	12.60	0.22	0.3480	0.4007	0.5307	0.42	No	
		2-year school, degree	10.90	10.46	10.80	0.10	0.3301	0.3706	0.4963	0.20	No	
		4-year school, no degree	10.09	9.87	10.04	0.05	0.2824	0.3331	0.4367	0.11	No	
		4-year degree	17.09	12.43	16.05	1.03	0.4635	0.5306	0.7045	1.47	No	
		Master's degree	6.18	4.43	5.79	0.39	0.2666	0.3080	0.4074	0.95	No	
		Ph.D. degree	1.84	1.09	1.67	0.17	0.1432	0.1705	0.2227	0.75	No	
		Imputed value	3.07	6.74	3.88	-0.82	0.2023	0.2001	0.2846	2.87	Yes	
		School sector										
		Public	92.00	93.64	92.36	-0.37	0.2849	0.3457	0.4480	0.82	No	
		Catholic	4.67	2.79	4.25	0.42	0.1608	0.1923	0.2507	1.66	No	
		Other private	3.34	3.57	3.39	-0.05	0.2332	0.2850	0.3683	0.14	No	
		School locale										
		Urban	28.77	35.00	30.15	-1.38	0.7480	0.9063	1.1752	1.18	No	
		Suburban	51.52	45.84	50.26	1.26	0.7954	0.9530	1.2413	1.02	No	
		Rural	19.71	19.16	19.59	0.12	0.6261	0.7627	0.9868	0.13	No	
		School region										
		Northeast	19.11	16.52	18.54	0.57	0.6524	0.8023	1.0340	0.56	No	
		Midwest	24.68	22.20	24.13	0.55	0.6474	0.7727	1.0081	0.55	No	
		South	32.20	41.66	34.30	-2.10	0.6644	0.7812	1.0255	2.05	Yes	
		West	24.01	19.62	23.04	0.98	0.8138	0.9516	1.2522	0.78	No	
		Reading achievement										
		Low quartile	21.94	35.62	24.97	-3.04	0.7193	0.7184	1.0166	2.99	Yes	
		Medium 2 quartiles	50.26	49.01	49.98	0.28	0.5700	0.6101	0.8349	0.33	No	
		High quartile	27.81	15.38	25.05	2.76	0.6232	0.7228	0.9544	2.89	Yes	
		Math achievement										
		Low quartile	22.23	34.46	24.95	-2.72	0.7432	0.7418	1.0501	2.59	Yes	
		Medium quartile	50.03	50.01	50.03	0.00	0.5721	0.6223	0.8454	0.00	No	
		High quartile	27.74	15.53	25.03	2.71	0.6786	0.7695	1.0260	2.64	Yes	
		Home language										
		No (non-English)	12.62	16.82	13.55	-0.93	0.5852	0.6532	0.8770	1.06	No	
		Yes (English)	87.04	75.00	84.36	2.67	0.6171	0.6622	0.9052	2.95	Yes	
		Imputed value	0.35	8.18	2.08	-1.74	0.1964	0.0769	0.2109	8.25	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS87C	Thinks math is fun	Sex										
		Male	47.94	58.76	50.43	-2.49	0.5303	0.6319	0.8250	3.02	Yes	
		Female	51.99	41.23	49.52	2.47	0.5307	0.6329	0.8260	3.00	Yes	
		Imputed value	0.07	0.01	0.05	0.01	0.0215	0.0279	0.0352	0.37	No	
		Race/ethnicity										
		American Indian	0.82	1.46	0.96	-0.15	0.1961	0.1828	0.2681	0.55	No	
		Asian	3.86	4.18	3.94	-0.07	0.2519	0.2770	0.3744	0.20	No	
		Black	11.86	22.78	14.37	-2.51	0.6567	0.6247	0.9064	2.77	Yes	
		Multiracial	4.22	4.19	4.21	0.01	0.2234	0.2439	0.3307	0.02	No	
		White	64.61	45.72	60.27	4.35	0.9781	1.0216	1.4144	3.07	Yes	
		Hispanic ethnicity	13.92	20.21	15.37	-1.45	0.8554	0.8810	1.2279	1.18	No	
		Imputed value	0.71	1.46	0.88	-0.17	0.1015	0.1010	0.1432	1.20	No	
		Mother's education attainment										
		No High School Diploma	11.23	16.46	12.43	-1.20	0.5097	0.5343	0.7384	1.63	No	
		High School Graduate	26.85	26.28	26.72	0.13	0.4797	0.5275	0.7130	0.18	No	
		2-year school, no degree	12.76	12.08	12.60	0.16	0.3480	0.4027	0.5322	0.29	No	
		2-year school, degree	10.87	10.59	10.80	0.06	0.3301	0.3724	0.4977	0.13	No	
		4-year school, no degree	10.15	9.67	10.04	0.11	0.2824	0.3348	0.4380	0.25	No	
		4-year degree	17.09	12.58	16.05	1.04	0.4635	0.5321	0.7057	1.47	No	
		Master's degree	6.18	4.51	5.79	0.38	0.2666	0.3085	0.4077	0.94	No	
		Ph.D. degree	1.81	1.20	1.67	0.14	0.1432	0.1694	0.2218	0.63	No	
		Imputed value	3.07	6.62	3.88	-0.82	0.2023	0.2017	0.2857	2.86	Yes	
		School sector										
		Public	91.99	93.59	92.36	-0.37	0.2849	0.3459	0.4481	0.82	No	
		Catholic	4.69	2.79	4.25	0.44	0.1608	0.1951	0.2528	1.73	No	
		Other private	3.32	3.62	3.39	-0.07	0.2332	0.2830	0.3667	0.19	No	
		School locale										
		Urban	28.69	35.06	30.15	-1.47	0.7480	0.9145	1.1814	1.24	No	
		Suburban	51.65	45.61	50.26	1.39	0.7954	0.9599	1.2466	1.11	No	
		Rural	19.67	19.33	19.59	0.08	0.6261	0.7613	0.9856	0.08	No	
		School region										
		Northeast	19.13	16.56	18.54	0.59	0.6524	0.8149	1.0439	0.57	No	
		Midwest	24.65	22.38	24.13	0.52	0.6474	0.7767	1.0111	0.52	No	
		South	32.07	41.76	34.30	-2.23	0.6644	0.7869	1.0298	2.16	Yes	
		West	24.15	19.30	23.04	1.12	0.8138	0.9541	1.2540	0.89	No	
		Reading achievement										
		Low quartile	21.72	35.86	24.97	-3.25	0.7193	0.7219	1.0191	3.19	Yes	
		Medium 2 quartiles	50.33	48.80	49.98	0.35	0.5700	0.6111	0.8356	0.42	No	
		High quartile	27.95	15.34	25.05	2.90	0.6232	0.7303	0.9601	3.02	Yes	
		Math achievement										
		Low quartile	22.06	34.60	24.95	-2.88	0.7432	0.7485	1.0548	2.73	Yes	
		Medium quartile	50.09	49.81	50.03	0.06	0.5721	0.6228	0.8457	0.08	No	
		High quartile	27.85	15.58	25.03	2.82	0.6786	0.7778	1.0322	2.73	Yes	
		Home language										
		No (non-English)	12.51	17.02	13.55	-1.04	0.5852	0.6540	0.8776	1.18	No	
		Yes (English)	87.16	75.02	84.36	2.79	0.6171	0.6649	0.9071	3.08	Yes	
		Imputed value	0.33	7.96	2.08	-1.75	0.1964	0.0761	0.2107	8.33	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS87D	Reads in spare time	Sex										
		Male	48.07	58.16	50.43	-2.36	0.5303	0.6335	0.8262	2.86	Yes	
		Female	51.86	41.84	49.52	2.35	0.5307	0.6345	0.8272	2.84	Yes	
		Imputed value	0.07	0.01	0.05	0.01	0.0215	0.0280	0.0353	0.38	No	
		Race/ethnicity										
		American Indian	0.80	1.50	0.96	-0.16	0.1961	0.1684	0.2585	0.63	No	
		Asian	3.92	3.99	3.94	-0.02	0.2519	0.2731	0.3716	0.04	No	
		Black	12.10	21.81	14.37	-2.27	0.6567	0.6341	0.9129	2.49	Yes	
		Multiracial	4.20	4.23	4.21	-0.01	0.2234	0.2453	0.3318	0.02	No	
		White	64.48	46.48	60.27	4.22	0.9781	1.0264	1.4178	2.97	Yes	
		Hispanic ethnicity	13.76	20.60	15.37	-1.60	0.8554	0.8686	1.2190	1.31	No	
		Imputed value	0.73	1.39	0.88	-0.16	0.1015	0.1026	0.1444	1.08	No	
		Mother's education attainment										
		No High School Diploma	11.29	16.17	12.43	-1.14	0.5097	0.5262	0.7325	1.56	No	
		High School Graduate	26.72	26.72	26.72	0.00	0.4797	0.5246	0.7109	0.00	No	
		2-year school, no degree	12.61	12.56	12.60	0.01	0.3480	0.4096	0.5375	0.02	No	
		2-year school, degree	10.94	10.35	10.80	0.14	0.3301	0.3777	0.5016	0.28	No	
		4-year school, no degree	10.17	9.63	10.04	0.13	0.2824	0.3395	0.4416	0.28	No	
		4-year degree	17.18	12.38	16.05	1.12	0.4635	0.5304	0.7044	1.60	No	
		Master's degree	6.16	4.59	5.79	0.37	0.2666	0.3051	0.4052	0.91	No	
		Ph.D. degree	1.83	1.17	1.67	0.15	0.1432	0.1706	0.2227	0.69	No	
		Imputed value	3.10	6.44	3.88	-0.78	0.2023	0.2009	0.2851	2.74	Yes	
		School sector										
		Public	91.99	93.59	92.36	-0.37	0.2849	0.3467	0.4487	0.84	No	
		Catholic	4.67	2.87	4.25	0.42	0.1608	0.1958	0.2533	1.67	No	
		Other private	3.34	3.55	3.39	-0.05	0.2332	0.2838	0.3673	0.13	No	
		School locale										
		Urban	28.59	35.27	30.15	-1.57	0.7480	0.8927	1.1647	1.34	No	
		Suburban	51.87	44.98	50.26	1.61	0.7954	0.9546	1.2425	1.30	No	
		Rural	19.54	19.75	19.59	-0.05	0.6261	0.7725	0.9944	0.05	No	
		School region										
		Northeast	19.22	16.30	18.54	0.68	0.6524	0.8069	1.0376	0.66	No	
		Midwest	24.69	22.30	24.13	0.56	0.6474	0.7801	1.0138	0.55	No	
		South	32.21	41.14	34.30	-2.09	0.6644	0.7820	1.0262	2.04	Yes	
		West	23.88	20.26	23.04	0.85	0.8138	0.9481	1.2494	0.68	No	
		Reading achievement										
		Low quartile	21.77	35.46	24.97	-3.21	0.7193	0.7178	1.0162	3.15	Yes	
		Medium 2 quartiles	50.34	48.78	49.98	0.37	0.5700	0.6145	0.8381	0.44	No	
		High quartile	27.89	15.76	25.05	2.84	0.6232	0.7270	0.9576	2.97	Yes	
		Math achievement										
		Low quartile	22.11	34.24	24.95	-2.84	0.7432	0.7451	1.0524	2.70	Yes	
		Medium quartile	50.12	49.72	50.03	0.09	0.5721	0.6231	0.8459	0.11	No	
		High quartile	27.77	16.04	25.03	2.75	0.6786	0.7798	1.0337	2.66	Yes	
		Home language										
		No (non-English)	12.46	17.11	13.55	-1.09	0.5852	0.6417	0.8685	1.25	No	
		Yes (English)	87.12	75.34	84.36	2.76	0.6171	0.6529	0.8984	3.07	Yes	
		Imputed value	0.41	7.55	2.08	-1.67	0.1964	0.0819	0.2128	7.86	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS87E	Gets totally absorbed in reading	Sex										
		Male	48.01	58.34	50.43	-2.42	0.5303	0.6359	0.8280	2.93	Yes	
		Female	51.94	41.62	49.52	2.42	0.5307	0.6373	0.8294	2.92	Yes	
		Imputed value	0.06	0.04	0.05	0.00	0.0215	0.0262	0.0339	0.11	No	
		Race/ethnicity										
		American Indian	0.82	1.43	0.96	-0.14	0.1961	0.1839	0.2688	0.53	No	
		Asian	3.83	4.28	3.94	-0.11	0.2519	0.2669	0.3670	0.29	No	
		Black	11.80	22.78	14.37	-2.58	0.6567	0.6279	0.9086	2.84	Yes	
		Multiracial	4.21	4.19	4.21	0.01	0.2234	0.2491	0.3346	0.02	No	
		White	64.81	45.46	60.27	4.54	0.9781	1.0195	1.4128	3.21	Yes	
		Hispanic ethnicity	13.82	20.41	15.37	-1.55	0.8554	0.8695	1.2197	1.27	No	
		Imputed value	0.71	1.45	0.88	-0.17	0.1015	0.1019	0.1439	1.20	No	
		Mother's education attainment										
		No High School Diploma	11.22	16.38	12.43	-1.21	0.5097	0.5359	0.7395	1.64	No	
		High School Graduate	26.80	26.45	26.72	0.08	0.4797	0.5263	0.7122	0.11	No	
		2-year school, no degree	12.81	11.94	12.60	0.20	0.3480	0.4044	0.5335	0.38	No	
		2-year school, degree	10.86	10.61	10.80	0.06	0.3301	0.3768	0.5010	0.12	No	
		4-year school, no degree	10.13	9.76	10.04	0.09	0.2824	0.3360	0.4389	0.20	No	
		4-year degree	17.12	12.57	16.05	1.07	0.4635	0.5353	0.7081	1.51	No	
		Master's degree	6.22	4.40	5.79	0.43	0.2666	0.3121	0.4105	1.04	No	
		Ph.D. degree	1.81	1.22	1.67	0.14	0.1432	0.1696	0.2219	0.62	No	
		Imputed value	3.03	6.67	3.88	-0.85	0.2023	0.2015	0.2855	2.99	Yes	
		School sector										
		Public	91.98	93.60	92.36	-0.38	0.2849	0.3488	0.4504	0.85	No	
		Catholic	4.69	2.82	4.25	0.44	0.1608	0.1980	0.2551	1.72	No	
		Other private	3.33	3.58	3.39	-0.06	0.2332	0.2846	0.3680	0.16	No	
		School locale										
		Urban	28.58	35.28	30.15	-1.57	0.7480	0.9096	1.1777	1.34	No	
		Suburban	51.76	45.36	50.26	1.50	0.7954	0.9630	1.2490	1.20	No	
		Rural	19.66	19.36	19.59	0.07	0.6261	0.7695	0.9920	0.07	No	
		School region										
		Northeast	19.21	16.35	18.54	0.67	0.6524	0.8173	1.0457	0.64	No	
		Midwest	24.66	22.39	24.13	0.53	0.6474	0.7775	1.0118	0.53	No	
		South	32.02	41.74	34.30	-2.28	0.6644	0.7900	1.0322	2.21	Yes	
		West	24.12	19.52	23.04	1.08	0.8138	0.9584	1.2573	0.86	No	
		Reading achievement										
		Low quartile	21.60	35.99	24.97	-3.38	0.7193	0.7229	1.0198	3.31	Yes	
		Medium 2 quartiles	50.38	48.66	49.98	0.41	0.5700	0.6170	0.8399	0.48	No	
		High quartile	28.02	15.36	25.05	2.97	0.6232	0.7316	0.9610	3.09	Yes	
		Math achievement										
		Low quartile	21.93	34.79	24.95	-3.02	0.7432	0.7491	1.0552	2.86	Yes	
		Medium quartile	50.17	49.57	50.03	0.14	0.5721	0.6265	0.8484	0.17	No	
		High quartile	27.90	15.65	25.03	2.88	0.6786	0.7828	1.0360	2.78	Yes	
		Home language										
		No (non-English)	12.48	17.05	13.55	-1.07	0.5852	0.6497	0.8744	1.23	No	
		Yes (English)	87.19	75.14	84.36	2.83	0.6171	0.6612	0.9045	3.13	Yes	
		Imputed value	0.33	7.81	2.08	-1.76	0.1964	0.0766	0.2108	8.33	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS87F	Mathematics is important	Sex										
		Male	48.20	58.15	50.43	-2.24	0.5303	0.6285	0.8223	2.72	Yes	
		Female	51.74	41.84	49.52	2.22	0.5307	0.6295	0.8233	2.70	Yes	
		Imputed value	0.07	0.00	0.05	0.01	0.0215	0.0277	0.0351	0.41	No	
		Race/ethnicity										
		American Indian	0.82	1.46	0.96	-0.14	0.1961	0.1833	0.2684	0.53	No	
		Asian	3.89	4.12	3.94	-0.05	0.2519	0.2740	0.3722	0.14	No	
		Black	12.02	22.50	14.37	-2.35	0.6567	0.6323	0.9116	2.58	Yes	
		Multiracial	4.22	4.16	4.21	0.01	0.2234	0.2441	0.3310	0.04	No	
		White	64.40	45.99	60.27	4.13	0.9781	1.0225	1.4150	2.92	Yes	
		Hispanic ethnicity	13.91	20.38	15.37	-1.45	0.8554	0.8701	1.2201	1.19	No	
		Imputed value	0.74	1.39	0.88	-0.15	0.1015	0.1023	0.1442	1.02	No	
		Mother's education attainment										
		No High School Diploma	11.32	16.27	12.43	-1.11	0.5097	0.5305	0.7357	1.51	No	
		High School Graduate	26.93	26.00	26.72	0.21	0.4797	0.5334	0.7174	0.29	No	
		2-year school, no degree	12.76	12.05	12.60	0.16	0.3480	0.3970	0.5279	0.30	No	
		2-year school, degree	10.84	10.66	10.80	0.04	0.3301	0.3745	0.4993	0.08	No	
		4-year school, no degree	10.09	9.88	10.04	0.05	0.2824	0.3364	0.4392	0.11	No	
		4-year degree	17.02	12.73	16.05	0.96	0.4635	0.5209	0.6973	1.38	No	
		Master's degree	6.13	4.62	5.79	0.34	0.2666	0.3083	0.4076	0.83	No	
		Ph.D. degree	1.83	1.15	1.67	0.15	0.1432	0.1696	0.2220	0.69	No	
		Imputed value	3.08	6.64	3.88	-0.80	0.2023	0.2008	0.2850	2.80	Yes	
		School sector										
		Public	92.03	93.50	92.36	-0.33	0.2849	0.3427	0.4457	0.74	No	
		Catholic	4.65	2.86	4.25	0.40	0.1608	0.1880	0.2474	1.62	No	
		Other private	3.32	3.64	3.39	-0.07	0.2332	0.2842	0.3676	0.20	No	
		School locale										
		Urban	28.68	35.23	30.15	-1.47	0.7480	0.9061	1.1750	1.25	No	
		Suburban	51.76	45.07	50.26	1.50	0.7954	0.9524	1.2409	1.21	No	
		Rural	19.56	19.70	19.59	-0.03	0.6261	0.7589	0.9838	0.03	No	
		School region										
		Northeast	19.16	16.38	18.54	0.62	0.6524	0.8078	1.0383	0.60	No	
		Midwest	24.74	22.03	24.13	0.61	0.6474	0.7740	1.0091	0.60	No	
		South	32.13	41.80	34.30	-2.17	0.6644	0.7810	1.0254	2.12	Yes	
		West	23.98	19.79	23.04	0.94	0.8138	0.9429	1.2455	0.75	No	
		Reading achievement										
		Low quartile	21.94	35.45	24.97	-3.03	0.7193	0.7214	1.0187	2.98	Yes	
		Medium 2 quartiles	50.26	49.00	49.98	0.28	0.5700	0.6159	0.8391	0.34	No	
		High quartile	27.80	15.54	25.05	2.75	0.6232	0.7292	0.9592	2.87	Yes	
		Math achievement										
		Low quartile	22.23	34.35	24.95	-2.72	0.7432	0.7421	1.0503	2.59	Yes	
		Medium quartile	50.08	49.85	50.03	0.05	0.5721	0.6314	0.8521	0.06	No	
		High quartile	27.70	15.80	25.03	2.67	0.6786	0.7761	1.0309	2.59	Yes	
		Home language										
		No (non-English)	12.62	16.78	13.55	-0.94	0.5852	0.6549	0.8783	1.07	No	
		Yes (English)	86.99	75.29	84.36	2.63	0.6171	0.6667	0.9084	2.89	Yes	
		Imputed value	0.39	7.93	2.08	-1.69	0.1964	0.0829	0.2132	7.94	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS88A	Most people can learn to be good at math	Sex										
		Male	48.09	58.10	50.43	-2.34	0.5303	0.6277	0.8217	2.85	Yes	
		Female	51.85	41.89	49.52	2.33	0.5307	0.6287	0.8227	2.83	Yes	
		Imputed value	0.07	0.01	0.05	0.01	0.0215	0.0280	0.0353	0.38	No	
		Race/ethnicity										
		American Indian	0.79	1.52	0.96	-0.17	0.1961	0.1823	0.2677	0.64	No	
		Asian	3.90	4.06	3.94	-0.04	0.2519	0.2735	0.3718	0.10	No	
		Black	11.91	22.44	14.37	-2.47	0.6567	0.6238	0.9058	2.72	Yes	
		Multiracial	4.20	4.25	4.21	-0.01	0.2234	0.2479	0.3337	0.03	No	
		White	64.62	46.01	60.27	4.36	0.9781	1.0231	1.4154	3.08	Yes	
		Hispanic ethnicity	13.87	20.25	15.37	-1.49	0.8554	0.8760	1.2244	1.22	No	
		Imputed value	0.70	1.47	0.88	-0.18	0.1015	0.1024	0.1442	1.24	No	
		Mother's education attainment										
		No High School Diploma	11.21	16.42	12.43	-1.22	0.5097	0.5353	0.7391	1.65	No	
		High School Graduate	26.68	26.84	26.72	-0.04	0.4797	0.5294	0.7144	0.05	No	
		2-year school, no degree	12.81	11.92	12.60	0.21	0.3480	0.4148	0.5414	0.38	No	
		2-year school, degree	10.87	10.57	10.80	0.07	0.3301	0.3811	0.5042	0.14	No	
		4-year school, no degree	10.14	9.73	10.04	0.10	0.2824	0.3385	0.4408	0.22	No	
		4-year degree	17.20	12.32	16.05	1.14	0.4635	0.5421	0.7132	1.60	No	
		Master's degree	6.17	4.55	5.79	0.38	0.2666	0.3111	0.4097	0.93	No	
		Ph.D. degree	1.80	1.25	1.67	0.13	0.1432	0.1707	0.2228	0.58	No	
		Imputed value	3.12	6.39	3.88	-0.77	0.2023	0.2042	0.2874	2.67	Yes	
		School sector										
		Public	91.97	93.63	92.36	-0.39	0.2849	0.3469	0.4489	0.87	No	
		Catholic	4.68	2.83	4.25	0.43	0.1608	0.1976	0.2548	1.70	No	
		Other private	3.35	3.53	3.39	-0.04	0.2332	0.2821	0.3661	0.12	No	
		School locale										
		Urban	28.66	35.05	30.15	-1.50	0.7480	0.9174	1.1837	1.26	No	
		Suburban	51.65	45.71	50.26	1.39	0.7954	0.9670	1.2521	1.11	No	
		Rural	19.70	19.23	19.59	0.11	0.6261	0.7761	0.9972	0.11	No	
		School region										
		Northeast	19.11	16.67	18.54	0.57	0.6524	0.8068	1.0375	0.55	No	
		Midwest	24.69	22.29	24.13	0.56	0.6474	0.7865	1.0187	0.55	No	
		South	32.02	41.77	34.30	-2.28	0.6644	0.7907	1.0328	2.21	Yes	
		West	24.19	19.27	23.04	1.15	0.8138	0.9687	1.2652	0.91	No	
		Reading achievement										
		Low quartile	21.77	35.47	24.97	-3.21	0.7193	0.7273	1.0229	3.14	Yes	
		Medium 2 quartiles	50.29	48.97	49.98	0.31	0.5700	0.6191	0.8415	0.37	No	
		High quartile	27.95	15.56	25.05	2.90	0.6232	0.7318	0.9612	3.01	Yes	
		Math achievement										
		Low quartile	22.06	34.40	24.95	-2.89	0.7432	0.7473	1.0539	2.74	Yes	
		Medium quartile	50.02	50.06	50.03	-0.01	0.5721	0.6203	0.8438	0.01	No	
High quartile	27.92	15.54	25.03	2.90	0.6786	0.7797	1.0336	2.80	Yes			
Home language												
No (non-English)	12.51	16.97	13.55	-1.05	0.5852	0.6585	0.8810	1.19	No			
Yes (English)	87.17	75.17	84.36	2.81	0.6171	0.6688	0.9100	3.09	Yes			
Imputed value	0.32	7.85	2.08	-1.76	0.1964	0.0773	0.2111	8.35	Yes			

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS88B	Have to be born with ability to be good at math	Sex										
		Male	48.23	57.83	50.43	-2.20	0.5303	0.6275	0.8216	2.68	Yes	
		Female	51.70	42.16	49.52	2.19	0.5307	0.6285	0.8226	2.66	Yes	
		Imputed value	0.07	0.01	0.05	0.01	0.0215	0.0278	0.0352	0.37	No	
		Race/ethnicity										
		American Indian	0.77	1.60	0.96	-0.19	0.1961	0.1748	0.2627	0.72	No	
		Asian	3.89	4.11	3.94	-0.05	0.2519	0.2731	0.3716	0.14	No	
		Black	11.99	22.39	14.37	-2.39	0.6567	0.6262	0.9075	2.63	Yes	
		Multiracial	4.26	4.05	4.21	0.05	0.2234	0.2488	0.3344	0.14	No	
		White	64.45	46.21	60.27	4.19	0.9781	1.0213	1.4142	2.96	Yes	
		Hispanic ethnicity	13.95	20.13	15.37	-1.42	0.8554	0.8687	1.2191	1.16	No	
		Imputed value	0.70	1.50	0.88	-0.18	0.1015	0.1012	0.1433	1.28	No	
		Mother's education attainment										
		No High School Diploma	11.33	16.13	12.43	-1.10	0.5097	0.5273	0.7333	1.50	No	
		High School Graduate	26.77	26.55	26.72	0.05	0.4797	0.5326	0.7168	0.07	No	
		2-year school, no degree	12.75	12.09	12.60	0.15	0.3480	0.4088	0.5368	0.28	No	
		2-year school, degree	10.85	10.66	10.80	0.04	0.3301	0.3803	0.5036	0.08	No	
		4-year school, no degree	10.12	9.76	10.04	0.08	0.2824	0.3347	0.4379	0.19	No	
		4-year degree	17.11	12.52	16.05	1.05	0.4635	0.5317	0.7054	1.49	No	
		Master's degree	6.15	4.62	5.79	0.35	0.2666	0.3103	0.4091	0.86	No	
		Ph.D. degree	1.82	1.19	1.67	0.14	0.1432	0.1701	0.2224	0.64	No	
		Imputed value	3.11	6.48	3.88	-0.77	0.2023	0.2019	0.2858	2.70	Yes	
		School sector										
		Public	92.01	93.54	92.36	-0.35	0.2849	0.3484	0.4501	0.78	No	
		Catholic	4.66	2.87	4.25	0.41	0.1608	0.1949	0.2526	1.63	No	
		Other private	3.33	3.59	3.39	-0.06	0.2332	0.2866	0.3695	0.17	No	
		School locale										
		Urban	28.66	35.17	30.15	-1.49	0.7480	0.9123	1.1798	1.27	No	
		Suburban	51.76	45.20	50.26	1.51	0.7954	0.9600	1.2467	1.21	No	
		Rural	19.58	19.63	19.59	-0.01	0.6261	0.7662	0.9895	0.01	No	
		School region										
		Northeast	19.11	16.61	18.54	0.57	0.6524	0.7999	1.0322	0.56	No	
		Midwest	24.79	21.89	24.13	0.67	0.6474	0.7895	1.0210	0.65	No	
		South	31.98	42.07	34.30	-2.32	0.6644	0.7840	1.0277	2.25	Yes	
		West	24.11	19.43	23.04	1.08	0.8138	0.9560	1.2555	0.86	No	
		Reading achievement										
		Low quartile	21.88	35.37	24.97	-3.10	0.7193	0.7342	1.0278	3.01	Yes	
		Medium 2 quartiles	50.26	49.02	49.98	0.29	0.5700	0.6205	0.8425	0.34	No	
		High quartile	27.86	15.61	25.05	2.81	0.6232	0.7231	0.9546	2.95	Yes	
		Math achievement										
		Low quartile	22.09	34.56	24.95	-2.86	0.7432	0.7440	1.0516	2.72	Yes	
		Medium quartile	50.08	49.85	50.03	0.05	0.5721	0.6193	0.8431	0.06	No	
		High quartile	27.84	15.59	25.03	2.81	0.6786	0.7764	1.0312	2.73	Yes	
		Home language										
		No (non-English)	12.55	16.91	13.55	-1.00	0.5852	0.6548	0.8782	1.14	No	
		Yes (English)	87.05	75.34	84.36	2.69	0.6171	0.6620	0.9050	2.97	Yes	
		Imputed value	0.40	7.75	2.08	-1.69	0.1964	0.0836	0.2135	7.90	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS89A	Can do excellent job on math tests	Sex										
		Male	48.05	57.69	50.43	-2.38	0.5303	0.6362	0.8283	2.88	Yes	
		Female	51.89	42.28	49.52	2.38	0.5307	0.6373	0.8293	2.86	Yes	
		Imputed value	0.06	0.03	0.05	0.01	0.0215	0.0274	0.0349	0.20	No	
		Race/ethnicity										
		American Indian	0.81	1.42	0.96	-0.15	0.1961	0.1872	0.2711	0.55	No	
		Asian	3.92	4.00	3.94	-0.02	0.2519	0.2727	0.3713	0.06	No	
		Black	11.80	22.21	14.37	-2.57	0.6567	0.6242	0.9060	2.84	Yes	
		Multiracial	4.26	4.04	4.21	0.06	0.2234	0.2537	0.3381	0.17	No	
		White	64.67	46.86	60.27	4.40	0.9781	1.0407	1.4282	3.08	Yes	
		Hispanic ethnicity	13.84	20.02	15.37	-1.53	0.8554	0.8837	1.2298	1.24	No	
		Imputed value	0.70	1.45	0.88	-0.19	0.1015	0.0979	0.1410	1.33	No	
		Mother's education attainment										
		No High School Diploma	11.09	16.51	12.43	-1.34	0.5097	0.5348	0.7387	1.81	No	
		High School Graduate	26.70	26.77	26.72	-0.02	0.4797	0.5354	0.7189	0.02	No	
		2-year school, no degree	12.82	11.95	12.60	0.22	0.3480	0.4147	0.5414	0.40	No	
		2-year school, degree	10.93	10.43	10.80	0.12	0.3301	0.3861	0.5080	0.24	No	
		4-year school, no degree	10.07	9.93	10.04	0.03	0.2824	0.3376	0.4401	0.08	No	
		4-year degree	17.28	12.32	16.05	1.23	0.4635	0.5466	0.7166	1.71	No	
		Master's degree	6.20	4.55	5.79	0.41	0.2666	0.3145	0.4123	0.99	No	
		Ph.D. degree	1.83	1.21	1.67	0.15	0.1432	0.1737	0.2251	0.68	No	
		Imputed value	3.08	6.33	3.88	-0.80	0.2023	0.2050	0.2880	2.79	Yes	
		School sector										
		Public	91.98	93.52	92.36	-0.38	0.2849	0.3443	0.4469	0.85	No	
		Catholic	4.70	2.88	4.25	0.45	0.1608	0.2000	0.2566	1.76	No	
		Other private	3.32	3.60	3.39	-0.07	0.2332	0.2758	0.3612	0.19	No	
		School locale										
		Urban	28.53	35.09	30.15	-1.62	0.7480	0.9357	1.1979	1.35	No	
		Suburban	51.75	45.71	50.26	1.49	0.7954	0.9881	1.2684	1.18	No	
		Rural	19.72	19.20	19.59	0.13	0.6261	0.7905	1.0084	0.13	No	
		School region										
		Northeast	19.16	16.64	18.54	0.62	0.6524	0.8359	1.0603	0.59	No	
		Midwest	24.69	22.42	24.13	0.56	0.6474	0.8094	1.0365	0.54	No	
		South	31.84	41.78	34.30	-2.46	0.6644	0.8007	1.0404	2.36	Yes	
		West	24.31	19.15	23.04	1.28	0.8138	0.9829	1.2761	1.00	No	
		Reading achievement										
		Low quartile	21.48	35.63	24.97	-3.50	0.7193	0.7190	1.0170	3.44	Yes	
		Medium 2 quartiles	50.43	48.59	49.98	0.45	0.5700	0.6161	0.8393	0.54	No	
		High quartile	28.09	15.78	25.05	3.04	0.6232	0.7315	0.9610	3.17	Yes	
		Math achievement										
		Low quartile	21.87	34.32	24.95	-3.08	0.7432	0.7518	1.0572	2.91	Yes	
		Medium quartile	50.10	49.80	50.03	0.07	0.5721	0.6282	0.8496	0.09	No	
High quartile	28.03	15.87	25.03	3.01	0.6786	0.7813	1.0348	2.90	Yes			
Home language												
No (non-English)	12.48	16.80	13.55	-1.07	0.5852	0.6653	0.8861	1.20	No			
Yes (English)	87.20	75.73	84.36	2.84	0.6171	0.6765	0.9157	3.10	Yes			
Imputed value	0.32	7.47	2.08	-1.77	0.1964	0.0812	0.2126	8.32	Yes			

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS89B	Can understand difficult math texts	Sex										
		Male	48.06	57.77	50.43	-2.37	0.5303	0.6346	0.8270	2.87	Yes	
		Female	51.87	42.23	49.52	2.35	0.5307	0.6356	0.8280	2.84	Yes	
		Imputed value	0.07	0.00	0.05	0.02	0.0215	0.0285	0.0357	0.45	No	
		Race/ethnicity										
		American Indian	0.83	1.39	0.96	-0.14	0.1961	0.1875	0.2713	0.51	No	
		Asian	3.91	4.03	3.94	-0.03	0.2519	0.2720	0.3708	0.08	No	
		Black	11.79	22.37	14.37	-2.59	0.6567	0.6342	0.9130	2.83	Yes	
		Multiracial	4.32	3.86	4.21	0.11	0.2234	0.2542	0.3384	0.34	No	
		White	64.60	46.87	60.27	4.33	0.9781	1.0422	1.4293	3.03	Yes	
		Hispanic ethnicity	13.86	20.04	15.37	-1.51	0.8554	0.8862	1.2317	1.23	No	
		Imputed value	0.70	1.45	0.88	-0.18	0.1015	0.0976	0.1408	1.31	No	
		Mother's education attainment										
		No High School Diploma	11.07	16.64	12.43	-1.36	0.5097	0.5315	0.7364	1.85	No	
		High School Graduate	26.71	26.73	26.72	-0.01	0.4797	0.5285	0.7137	0.01	No	
		2-year school, no degree	12.84	11.85	12.60	0.24	0.3480	0.4220	0.5470	0.44	No	
		2-year school, degree	10.98	10.26	10.80	0.18	0.3301	0.3842	0.5065	0.35	No	
		4-year school, no degree	10.04	10.03	10.04	0.00	0.2824	0.3341	0.4375	0.00	No	
		4-year degree	17.19	12.56	16.05	1.13	0.4635	0.5432	0.7141	1.58	No	
		Master's degree	6.22	4.48	5.79	0.42	0.2666	0.3139	0.4119	1.03	No	
		Ph.D. degree	1.82	1.23	1.67	0.14	0.1432	0.1731	0.2246	0.64	No	
		Imputed value	3.13	6.21	3.88	-0.75	0.2023	0.2027	0.2864	2.62	Yes	
		School sector										
		Public	91.99	93.52	92.36	-0.37	0.2849	0.3400	0.4436	0.84	No	
		Catholic	4.68	2.92	4.25	0.43	0.1608	0.1974	0.2546	1.69	No	
		Other private	3.33	3.56	3.39	-0.06	0.2332	0.2720	0.3583	0.15	No	
		School locale										
		Urban	28.60	34.95	30.15	-1.55	0.7480	0.9408	1.2019	1.29	No	
		Suburban	51.79	45.53	50.26	1.53	0.7954	0.9837	1.2650	1.21	No	
		Rural	19.61	19.52	19.59	0.02	0.6261	0.7866	1.0053	0.02	No	
		School region										
		Northeast	19.29	16.21	18.54	0.75	0.6524	0.8262	1.0527	0.71	No	
		Midwest	24.70	22.35	24.13	0.58	0.6474	0.8067	1.0344	0.56	No	
		South	31.81	42.00	34.30	-2.49	0.6644	0.7991	1.0392	2.39	Yes	
		West	24.20	19.44	23.04	1.16	0.8138	0.9763	1.2710	0.91	No	
		Reading achievement										
		Low quartile	21.67	35.20	24.97	-3.31	0.7193	0.7224	1.0194	3.24	Yes	
		Medium 2 quartiles	50.23	49.19	49.98	0.26	0.5700	0.6116	0.8360	0.31	No	
		High quartile	28.10	15.61	25.05	3.05	0.6232	0.7274	0.9578	3.18	Yes	
		Math achievement										
		Low quartile	21.97	34.16	24.95	-2.98	0.7432	0.7526	1.0577	2.82	Yes	
		Medium quartile	49.94	50.30	50.03	-0.09	0.5721	0.6287	0.8501	0.10	No	
		High quartile	28.09	15.54	25.03	3.07	0.6786	0.7786	1.0328	2.97	Yes	
		Home language										
		No (non-English)	12.57	16.60	13.55	-0.99	0.5852	0.6727	0.8916	1.11	No	
		Yes (English)	87.08	75.96	84.36	2.72	0.6171	0.6808	0.9189	2.95	Yes	
		Imputed value	0.36	7.44	2.08	-1.73	0.1964	0.0847	0.2139	8.09	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS89C	Can understand difficult English texts	Sex									
		Male	48.03	57.46	50.43	-2.41	0.5303	0.6339	0.8265	2.91	Yes
	Female	51.93	42.47	49.52	2.41	0.5307	0.6349	0.8275	2.92	Yes	
	Imputed value	0.05	0.08	0.05	-0.01	0.0215	0.0222	0.0309	0.25	No	
	Race/ethnicity										
	American Indian	0.81	1.40	0.96	-0.15	0.1961	0.1889	0.2723	0.55	No	
	Asian	3.93	3.96	3.94	-0.01	0.2519	0.2747	0.3727	0.02	No	
	Black	11.69	22.20	14.37	-2.68	0.6567	0.6296	0.9097	2.95	Yes	
	Multiracial	4.32	3.89	4.21	0.11	0.2234	0.2556	0.3395	0.33	No	
	White	64.78	47.09	60.27	4.51	0.9781	1.0550	1.4387	3.14	Yes	
	Hispanic ethnicity	13.79	19.96	15.37	-1.57	0.8554	0.8924	1.2361	1.27	No	
	Imputed value	0.67	1.50	0.88	-0.21	0.1015	0.0964	0.1400	1.52	No	
	Mother's education attainment										
	No High School Diploma	11.03	16.51	12.43	-1.40	0.5097	0.5336	0.7379	1.89	No	
	High School Graduate	26.74	26.66	26.72	0.02	0.4797	0.5301	0.7150	0.03	No	
	2-year school, no degree	12.81	12.00	12.60	0.20	0.3480	0.4211	0.5463	0.37	No	
	2-year school, degree	10.92	10.48	10.80	0.11	0.3301	0.3833	0.5059	0.22	No	
	4-year school, no degree	10.11	9.85	10.04	0.07	0.2824	0.3405	0.4423	0.15	No	
	4-year degree	17.24	12.59	16.05	1.19	0.4635	0.5453	0.7157	1.66	No	
	Master's degree	6.25	4.46	5.79	0.46	0.2666	0.3177	0.4147	1.10	No	
	Ph.D. degree	1.82	1.23	1.67	0.15	0.1432	0.1749	0.2261	0.67	No	
	Imputed value	3.08	6.23	3.88	-0.80	0.2023	0.2041	0.2874	2.79	Yes	
	School sector										
	Public	91.98	93.46	92.36	-0.38	0.2849	0.3433	0.4461	0.85	No	
	Catholic	4.70	2.93	4.25	0.45	0.1608	0.2018	0.2580	1.76	No	
	Other private	3.31	3.61	3.39	-0.08	0.2332	0.2729	0.3590	0.21	No	
	School locale										
	Urban	28.48	35.05	30.15	-1.68	0.7480	0.9444	1.2047	1.39	No	
	Suburban	51.77	45.84	50.26	1.52	0.7954	0.9909	1.2706	1.19	No	
	Rural	19.75	19.12	19.59	0.16	0.6261	0.7965	1.0131	0.16	No	
	School region										
	Northeast	19.22	16.54	18.54	0.68	0.6524	0.8419	1.0651	0.64	No	
	Midwest	24.71	22.43	24.13	0.58	0.6474	0.8122	1.0387	0.56	No	
	South	31.68	41.94	34.30	-2.62	0.6644	0.8033	1.0425	2.51	Yes	
	West	24.39	19.09	23.04	1.35	0.8138	0.9783	1.2725	1.06	No	
	Reading achievement										
	Low quartile	21.41	35.38	24.97	-3.57	0.7193	0.7237	1.0203	3.49	Yes	
	Medium 2 quartiles	50.39	48.78	49.98	0.41	0.5700	0.6178	0.8406	0.49	No	
	High quartile	28.20	15.84	25.05	3.16	0.6232	0.7311	0.9606	3.29	Yes	
	Math achievement										
	Low quartile	21.72	34.37	24.95	-3.23	0.7432	0.7529	1.0579	3.05	Yes	
	Medium quartile	50.06	49.93	50.03	0.03	0.5721	0.6332	0.8533	0.04	No	
	High quartile	28.22	15.70	25.03	3.20	0.6786	0.7834	1.0364	3.08	Yes	
	Home language										
	No (non-English)	12.40	16.92	13.55	-1.15	0.5852	0.6734	0.8921	1.29	No	
	Yes (English)	87.33	75.71	84.36	2.96	0.6171	0.6791	0.9176	3.23	Yes	
	Imputed value	0.27	7.37	2.08	-1.81	0.1964	0.0694	0.2084	8.69	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS89D	Studies to get a good grade	Sex										
		Male	48.10	57.32	50.43	-2.33	0.5303	0.6378	0.8295	2.81	Yes	
		Female	51.84	42.65	49.52	2.32	0.5307	0.6388	0.8305	2.80	Yes	
		Imputed value	0.06	0.03	0.05	0.01	0.0215	0.0276	0.0350	0.21	No	
		Race/ethnicity										
		American Indian	0.82	1.40	0.96	-0.15	0.1961	0.1819	0.2675	0.55	No	
		Asian	3.92	3.98	3.94	-0.02	0.2519	0.2749	0.3728	0.04	No	
		Black	11.68	22.35	14.37	-2.70	0.6567	0.6285	0.9090	2.97	Yes	
		Multiracial	4.26	4.04	4.21	0.06	0.2234	0.2554	0.3394	0.16	No	
		White	64.77	46.96	60.27	4.50	0.9781	1.0439	1.4306	3.15	Yes	
		Hispanic ethnicity	13.90	19.70	15.37	-1.47	0.8554	0.8948	1.2379	1.19	No	
		Imputed value	0.66	1.56	0.88	-0.23	0.1015	0.0966	0.1402	1.62	No	
		Mother's education attainment										
		No High School Diploma	11.12	16.32	12.43	-1.32	0.5097	0.5284	0.7342	1.79	No	
		High School Graduate	26.68	26.81	26.72	-0.03	0.4797	0.5371	0.7202	0.05	No	
		2-year school, no degree	12.77	12.12	12.60	0.16	0.3480	0.4182	0.5440	0.30	No	
		2-year school, degree	10.94	10.40	10.80	0.14	0.3301	0.3886	0.5099	0.27	No	
		4-year school, no degree	10.08	9.93	10.04	0.04	0.2824	0.3393	0.4414	0.08	No	
		4-year degree	17.30	12.36	16.05	1.25	0.4635	0.5490	0.7185	1.74	No	
		Master's degree	6.20	4.60	5.79	0.40	0.2666	0.3168	0.4140	0.97	No	
		Ph.D. degree	1.82	1.24	1.67	0.15	0.1432	0.1746	0.2258	0.65	No	
		Imputed value	3.09	6.22	3.88	-0.79	0.2023	0.2032	0.2867	2.75	Yes	
		School sector										
		Public	92.02	93.38	92.36	-0.34	0.2849	0.3444	0.4470	0.77	No	
		Catholic	4.70	2.92	4.25	0.45	0.1608	0.1999	0.2566	1.76	No	
		Other private	3.28	3.71	3.39	-0.11	0.2332	0.2763	0.3616	0.30	No	
		School locale										
		Urban	28.50	35.03	30.15	-1.65	0.7480	0.9396	1.2010	1.37	No	
		Suburban	51.84	45.58	50.26	1.58	0.7954	0.9868	1.2674	1.25	No	
		Rural	19.66	19.39	19.59	0.07	0.6261	0.7939	1.0110	0.07	No	
		School region										
		Northeast	19.32	16.23	18.54	0.78	0.6524	0.8444	1.0670	0.73	No	
		Midwest	24.64	22.61	24.13	0.51	0.6474	0.8104	1.0373	0.49	No	
		South	31.72	41.93	34.30	-2.58	0.6644	0.7969	1.0375	2.49	Yes	
		West	24.32	19.23	23.04	1.29	0.8138	0.9728	1.2683	1.02	No	
		Reading achievement										
		Low quartile	21.58	35.03	24.97	-3.40	0.7193	0.7260	1.0219	3.33	Yes	
		Medium 2 quartiles	50.23	49.24	49.98	0.25	0.5700	0.6145	0.8381	0.30	No	
		High quartile	28.20	15.74	25.05	3.15	0.6232	0.7309	0.9605	3.28	Yes	
		Math achievement										
		Low quartile	21.82	34.20	24.95	-3.13	0.7432	0.7598	1.0628	2.94	Yes	
		Medium quartile	49.96	50.20	50.03	-0.06	0.5721	0.6359	0.8554	0.07	No	
		High quartile	28.21	15.60	25.03	3.19	0.6786	0.7819	1.0353	3.08	Yes	
		Home language										
		No (non-English)	12.47	16.73	13.55	-1.08	0.5852	0.6683	0.8883	1.21	No	
		Yes (English)	87.23	75.90	84.36	2.86	0.6171	0.6744	0.9141	3.13	Yes	
		Imputed value	0.30	7.37	2.08	-1.79	0.1964	0.0729	0.2095	8.53	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS89E	Can learn something really hard	Sex										
		Male	48.08	57.00	50.43	-2.35	0.5303	0.6471	0.8366	2.81	Yes	
		Female	51.86	42.98	49.52	2.34	0.5307	0.6479	0.8375	2.80	Yes	
		Imputed value	0.07	0.02	0.05	0.01	0.0215	0.0289	0.0360	0.34	No	
		Race/ethnicity										
		American Indian	0.81	1.39	0.96	-0.15	0.1961	0.1878	0.2715	0.57	No	
		Asian	3.94	3.94	3.94	0.00	0.2519	0.2751	0.3731	0.00	No	
		Black	11.58	22.17	14.37	-2.79	0.6567	0.6263	0.9075	3.08	Yes	
		Multiracial	4.30	3.96	4.21	0.09	0.2234	0.2571	0.3406	0.26	No	
		White	64.94	47.22	60.27	4.67	0.9781	1.0477	1.4333	3.26	Yes	
		Hispanic ethnicity	13.76	19.83	15.37	-1.60	0.8554	0.8941	1.2373	1.29	No	
		Imputed value	0.67	1.47	0.88	-0.21	0.1015	0.0980	0.1411	1.50	No	
		Mother's education attainment										
		No High School Diploma	10.98	16.47	12.43	-1.45	0.5097	0.5355	0.7392	1.96	No	
		High School Graduate	26.76	26.61	26.72	0.04	0.4797	0.5410	0.7231	0.05	No	
		2-year school, no degree	12.81	12.01	12.60	0.21	0.3480	0.4259	0.5500	0.39	No	
		2-year school, degree	10.86	10.65	10.80	0.05	0.3301	0.3903	0.5112	0.11	No	
		4-year school, no degree	10.13	9.80	10.04	0.09	0.2824	0.3427	0.4440	0.20	No	
		4-year degree	17.33	12.49	16.05	1.28	0.4635	0.5468	0.7168	1.78	No	
		Master's degree	6.23	4.57	5.79	0.44	0.2666	0.3185	0.4153	1.05	No	
		Ph.D. degree	1.84	1.21	1.67	0.17	0.1432	0.1767	0.2274	0.73	No	
		Imputed value	3.06	6.19	3.88	-0.83	0.2023	0.2058	0.2886	2.87	Yes	
		School sector										
		Public	91.96	93.49	92.36	-0.40	0.2849	0.3502	0.4515	0.90	No	
		Catholic	4.73	2.91	4.25	0.48	0.1608	0.2058	0.2612	1.83	No	
		Other private	3.32	3.59	3.39	-0.07	0.2332	0.2791	0.3638	0.20	No	
		School locale										
		Urban	28.39	35.08	30.15	-1.77	0.7480	0.9535	1.2119	1.46	No	
		Suburban	51.89	45.69	50.26	1.63	0.7954	0.9962	1.2748	1.28	No	
		Rural	19.72	19.22	19.59	0.13	0.6261	0.7939	1.0110	0.13	No	
		School region										
		Northeast	19.20	16.69	18.54	0.66	0.6524	0.8388	1.0626	0.62	No	
		Midwest	24.78	22.31	24.13	0.65	0.6474	0.8156	1.0413	0.63	No	
		South	31.53	42.02	34.30	-2.77	0.6644	0.8058	1.0444	2.65	Yes	
		West	24.49	18.98	23.04	1.45	0.8138	0.9897	1.2813	1.13	No	
		Reading achievement										
		Low quartile	21.44	34.84	24.97	-3.53	0.7193	0.7310	1.0255	3.44	Yes	
		Medium 2 quartiles	50.27	49.15	49.98	0.30	0.5700	0.6162	0.8394	0.35	No	
		High quartile	28.28	16.01	25.05	3.24	0.6232	0.7367	0.9649	3.35	Yes	
		Math achievement										
		Low quartile	21.68	34.09	24.95	-3.27	0.7432	0.7640	1.0658	3.07	Yes	
		Medium quartile	50.02	50.05	50.03	-0.01	0.5721	0.6410	0.8592	0.01	No	
		High quartile	28.31	15.86	25.03	3.28	0.6786	0.7833	1.0363	3.17	Yes	
		Home language										
		No (non-English)	12.40	16.77	13.55	-1.15	0.5852	0.6816	0.8983	1.28	No	
		Yes (English)	87.33	76.09	84.36	2.97	0.6171	0.6871	0.9235	3.21	Yes	
		Imputed value	0.27	7.14	2.08	-1.81	0.1964	0.0700	0.2086	8.69	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS89F	Can understand difficult English class	Sex									
		Male	48.23	56.86	50.43	-2.20	0.5303	0.6436	0.8339	2.64	Yes
	Female	51.71	43.11	49.52	2.19	0.5307	0.6448	0.8351	2.62	Yes	
	Imputed value	0.06	0.03	0.05	0.01	0.0215	0.0277	0.0351	0.21	No	
	Race/ethnicity										
	American Indian	0.82	1.39	0.96	-0.15	0.1961	0.1862	0.2704	0.54	No	
	Asian	3.93	3.95	3.94	0.00	0.2519	0.2767	0.3742	0.01	No	
	Black	11.72	22.13	14.37	-2.65	0.6567	0.6411	0.9177	2.89	Yes	
	Multiracial	4.31	3.91	4.21	0.10	0.2234	0.2561	0.3399	0.30	No	
	White	64.77	47.09	60.27	4.50	0.9781	1.0469	1.4328	3.14	Yes	
	Hispanic ethnicity	13.78	20.02	15.37	-1.59	0.8554	0.8852	1.2309	1.29	No	
	Imputed value	0.67	1.51	0.88	-0.22	0.1015	0.0968	0.1403	1.53	No	
	Mother's education attainment										
	No High School Diploma	11.11	16.29	12.43	-1.32	0.5097	0.5252	0.7318	1.80	No	
	High School Graduate	26.72	26.70	26.72	0.01	0.4797	0.5409	0.7230	0.01	No	
	2-year school, no degree	12.73	12.21	12.60	0.13	0.3480	0.4257	0.5498	0.24	No	
	2-year school, degree	10.87	10.61	10.80	0.07	0.3301	0.3894	0.5105	0.13	No	
	4-year school, no degree	10.06	9.98	10.04	0.02	0.2824	0.3363	0.4391	0.05	No	
	4-year degree	17.35	12.28	16.05	1.29	0.4635	0.5444	0.7150	1.81	No	
	Master's degree	6.23	4.53	5.79	0.43	0.2666	0.3148	0.4126	1.05	No	
	Ph.D. degree	1.82	1.24	1.67	0.15	0.1432	0.1745	0.2258	0.66	No	
	Imputed value	3.11	6.16	3.88	-0.78	0.2023	0.2040	0.2873	2.71	Yes	
	School sector										
	Public	92.02	93.35	92.36	-0.34	0.2849	0.3440	0.4467	0.76	No	
	Catholic	4.69	2.96	4.25	0.44	0.1608	0.2002	0.2568	1.72	No	
	Other private	3.29	3.69	3.39	-0.10	0.2332	0.2753	0.3608	0.28	No	
	School locale										
	Urban	28.58	34.75	30.15	-1.57	0.7480	0.9547	1.2128	1.30	No	
	Suburban	51.75	45.90	50.26	1.49	0.7954	0.9926	1.2720	1.17	No	
	Rural	19.67	19.35	19.59	0.08	0.6261	0.7925	1.0099	0.08	No	
	School region										
	Northeast	19.21	16.57	18.54	0.67	0.6524	0.8491	1.0707	0.63	No	
	Midwest	24.85	22.00	24.13	0.73	0.6474	0.8186	1.0437	0.70	No	
	South	31.74	41.79	34.30	-2.56	0.6644	0.8019	1.0414	2.46	Yes	
	West	24.20	19.63	23.04	1.16	0.8138	0.9743	1.2695	0.92	No	
	Reading achievement										
	Low quartile	21.82	34.19	24.97	-3.15	0.7193	0.7350	1.0284	3.06	Yes	
	Medium 2 quartiles	49.93	50.12	49.98	-0.05	0.5700	0.6167	0.8398	0.06	No	
	High quartile	28.25	15.69	25.05	3.20	0.6232	0.7295	0.9594	3.33	Yes	
	Math achievement										
	Low quartile	21.91	33.84	24.95	-3.04	0.7432	0.7589	1.0622	2.86	Yes	
	Medium quartile	49.83	50.60	50.03	-0.20	0.5721	0.6338	0.8538	0.23	No	
	High quartile	28.26	15.56	25.03	3.24	0.6786	0.7836	1.0366	3.12	Yes	
	Home language										
	No (non-English)	12.41	16.88	13.55	-1.14	0.5852	0.6684	0.8884	1.28	No	
	Yes (English)	87.26	75.90	84.36	2.89	0.6171	0.6737	0.9136	3.17	Yes	
	Imputed value	0.33	7.22	2.08	-1.75	0.1964	0.0738	0.2098	8.36	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS89G	Remembers most important things when studies	Sex									
		Male	48.11	56.82	50.43	-2.32	0.5303	0.6499	0.8388	2.76	Yes
		Female	51.82	43.17	49.52	2.30	0.5307	0.6510	0.8399	2.74	Yes
		Imputed value	0.07	0.01	0.05	0.02	0.0215	0.0292	0.0363	0.45	No
		Race/ethnicity									
		American Indian	0.80	1.41	0.96	-0.16	0.1961	0.1877	0.2714	0.59	No
		Asian	3.96	3.88	3.94	0.02	0.2519	0.2767	0.3742	0.06	No
		Black	11.56	22.15	14.37	-2.82	0.6567	0.6290	0.9094	3.10	Yes
		Multiracial	4.31	3.94	4.21	0.10	0.2234	0.2567	0.3403	0.29	No
		White	64.91	47.46	60.27	4.64	0.9781	1.0480	1.4336	3.24	Yes
		Hispanic ethnicity	13.81	19.66	15.37	-1.56	0.8554	0.8963	1.2390	1.26	No
		Imputed value	0.66	1.50	0.88	-0.22	0.1015	0.0966	0.1401	1.60	No
		Mother's education attainment									
		No High School Diploma	10.91	16.63	12.43	-1.52	0.5097	0.5336	0.7379	2.06	Yes
		High School Graduate	26.71	26.73	26.72	0.00	0.4797	0.5390	0.7216	0.01	No
		2-year school, no degree	12.83	11.96	12.60	0.23	0.3480	0.4304	0.5535	0.42	No
		2-year school, degree	10.92	10.48	10.80	0.12	0.3301	0.3913	0.5119	0.23	No
		4-year school, no degree	10.10	9.87	10.04	0.06	0.2824	0.3381	0.4405	0.14	No
		4-year degree	17.40	12.34	16.05	1.35	0.4635	0.5469	0.7169	1.88	No
		Master's degree	6.22	4.63	5.79	0.42	0.2666	0.3183	0.4152	1.02	No
		Ph.D. degree	1.84	1.22	1.67	0.16	0.1432	0.1762	0.2271	0.72	No
		Imputed value	3.07	6.14	3.88	-0.82	0.2023	0.2053	0.2882	2.84	Yes
		School sector									
		Public	91.96	93.48	92.36	-0.40	0.2849	0.3513	0.4523	0.89	No
		Catholic	4.71	2.98	4.25	0.46	0.1608	0.2059	0.2613	1.76	No
		Other private	3.34	3.54	3.39	-0.05	0.2332	0.2806	0.3649	0.15	No
		School locale									
		Urban	28.39	35.02	30.15	-1.76	0.7480	0.9487	1.2081	1.46	No
		Suburban	51.90	45.73	50.26	1.64	0.7954	0.9958	1.2745	1.29	No
		Rural	19.71	19.25	19.59	0.12	0.6261	0.8017	1.0172	0.12	No
		School region									
		Northeast	19.35	16.30	18.54	0.81	0.6524	0.8445	1.0671	0.76	No
		Midwest	24.77	22.37	24.13	0.64	0.6474	0.8203	1.0450	0.61	No
		South	31.51	41.99	34.30	-2.79	0.6644	0.8046	1.0434	2.67	Yes
		West	24.37	19.34	23.04	1.34	0.8138	0.9810	1.2746	1.05	No
		Reading achievement									
		Low quartile	21.47	34.64	24.97	-3.50	0.7193	0.7349	1.0283	3.41	Yes
		Medium 2 quartiles	50.06	49.75	49.98	0.08	0.5700	0.6134	0.8373	0.10	No
		High quartile	28.47	15.61	25.05	3.42	0.6232	0.7421	0.9691	3.53	Yes
		Math achievement									
		Low quartile	21.69	33.95	24.95	-3.26	0.7432	0.7667	1.0678	3.06	Yes
		Medium quartile	49.87	50.47	50.03	-0.16	0.5721	0.6430	0.8607	0.19	No
	High quartile	28.45	15.58	25.03	3.42	0.6786	0.7927	1.0435	3.28	Yes	
	Home language										
	No (non-English)	12.39	16.75	13.55	-1.16	0.5852	0.6771	0.8950	1.29	No	
	Yes (English)	87.35	76.14	84.36	2.98	0.6171	0.6833	0.9207	3.24	Yes	
	Imputed value	0.26	7.11	2.08	-1.82	0.1964	0.0686	0.2081	8.76	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS89H	Studies to increase job opportunities	Sex										
		Male	48.10	56.87	50.43	-2.33	0.5303	0.6421	0.8328	2.80	Yes	
		Female	51.83	43.10	49.52	2.32	0.5307	0.6429	0.8336	2.78	Yes	
		Imputed value	0.06	0.03	0.05	0.01	0.0215	0.0249	0.0329	0.29	No	
		Race/ethnicity										
		American Indian	0.82	1.35	0.96	-0.14	0.1961	0.1891	0.2724	0.51	No	
		Asian	3.91	4.02	3.94	-0.03	0.2519	0.2704	0.3696	0.08	No	
		Black	11.68	21.83	14.37	-2.70	0.6567	0.6428	0.9190	2.93	Yes	
		Multiracial	4.30	3.97	4.21	0.09	0.2234	0.2592	0.3422	0.26	No	
		White	64.85	47.59	60.27	4.58	0.9781	1.0469	1.4327	3.20	Yes	
		Hispanic ethnicity	13.77	19.79	15.37	-1.60	0.8554	0.8763	1.2246	1.31	No	
		Imputed value	0.67	1.46	0.88	-0.21	0.1015	0.0980	0.1411	1.48	No	
		Mother's education attainment										
		No High School Diploma	11.10	16.11	12.43	-1.33	0.5097	0.5304	0.7356	1.81	No	
		High School Graduate	26.70	26.75	26.72	-0.01	0.4797	0.5435	0.7249	0.02	No	
		2-year school, no degree	12.85	11.92	12.60	0.25	0.3480	0.4349	0.5570	0.44	No	
		2-year school, degree	10.99	10.29	10.80	0.18	0.3301	0.3872	0.5088	0.36	No	
		4-year school, no degree	9.95	10.27	10.04	-0.08	0.2824	0.3393	0.4415	0.19	No	
		4-year degree	17.27	12.69	16.05	1.22	0.4635	0.5435	0.7143	1.70	No	
		Master's degree	6.22	4.62	5.79	0.43	0.2666	0.3183	0.4152	1.02	No	
		Ph.D. degree	1.83	1.25	1.67	0.15	0.1432	0.1755	0.2265	0.68	No	
		Imputed value	3.09	6.09	3.88	-0.80	0.2023	0.2042	0.2875	2.78	Yes	
		School sector										
		Public	91.94	93.52	92.36	-0.42	0.2849	0.3533	0.4539	0.92	No	
		Catholic	4.72	2.94	4.25	0.47	0.1608	0.2025	0.2586	1.83	No	
		Other private	3.33	3.54	3.39	-0.06	0.2332	0.2863	0.3693	0.15	No	
		School locale										
		Urban	28.55	34.60	30.15	-1.61	0.7480	0.9454	1.2055	1.33	No	
		Suburban	51.83	45.91	50.26	1.57	0.7954	0.9873	1.2678	1.24	No	
		Rural	19.62	19.50	19.59	0.03	0.6261	0.7933	1.0106	0.03	No	
		School region										
		Northeast	19.35	16.30	18.54	0.81	0.6524	0.8292	1.0550	0.77	No	
		Midwest	24.72	22.49	24.13	0.59	0.6474	0.8114	1.0381	0.57	No	
		South	31.68	41.55	34.30	-2.62	0.6644	0.7975	1.0380	2.53	Yes	
		West	24.26	19.66	23.04	1.22	0.8138	0.9807	1.2744	0.96	No	
		Reading achievement										
		Low quartile	21.63	34.24	24.97	-3.35	0.7193	0.7338	1.0275	3.26	Yes	
		Medium 2 quartiles	49.97	49.99	49.98	-0.01	0.5700	0.6163	0.8394	0.01	No	
		High quartile	28.40	15.77	25.05	3.35	0.6232	0.7427	0.9695	3.46	Yes	
		Math achievement										
		Low quartile	21.78	33.72	24.95	-3.17	0.7432	0.7679	1.0686	2.97	Yes	
		Medium quartile	49.84	50.52	50.03	-0.18	0.5721	0.6497	0.8657	0.21	No	
High quartile	28.38	15.75	25.03	3.35	0.6786	0.7940	1.0444	3.21	Yes			
Home language												
No (non-English)	12.40	16.73	13.55	-1.15	0.5852	0.6796	0.8968	1.28	No			
Yes (English)	87.23	76.43	84.36	2.87	0.6171	0.6860	0.9227	3.11	Yes			
Imputed value	0.37	6.84	2.08	-1.72	0.1964	0.0851	0.2141	8.03	Yes			

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS89I	Can do excellent job on English assignments	Sex									
		Male	48.00	56.85	50.43	-2.43	0.5303	0.6546	0.8425	2.88	Yes
		Female	51.94	43.10	49.52	2.43	0.5307	0.6552	0.8431	2.88	Yes
		Imputed value	0.05	0.05	0.05	0.00	0.0215	0.0238	0.0321	0.00	No
		Race/ethnicity									
		American Indian	0.81	1.37	0.96	-0.15	0.1961	0.1898	0.2729	0.57	No
		Asian	3.96	3.87	3.94	0.03	0.2519	0.2765	0.3741	0.07	No
		Black	11.50	21.98	14.37	-2.88	0.6567	0.6252	0.9067	3.17	Yes
		Multiracial	4.27	4.05	4.21	0.06	0.2234	0.2579	0.3412	0.17	No
		White	65.04	47.64	60.27	4.78	0.9781	1.0492	1.4345	3.33	Yes
		Hispanic ethnicity	13.76	19.60	15.37	-1.60	0.8554	0.8917	1.2356	1.30	No
		Imputed value	0.65	1.49	0.88	-0.23	0.1015	0.0968	0.1403	1.63	No
		Mother's education attainment									
		No High School Diploma	10.93	16.39	12.43	-1.50	0.5097	0.5361	0.7397	2.03	Yes
		High School Graduate	26.66	26.87	26.72	-0.06	0.4797	0.5413	0.7233	0.08	No
		2-year school, no degree	12.81	12.05	12.60	0.21	0.3480	0.4302	0.5533	0.38	No
		2-year school, degree	10.95	10.42	10.80	0.14	0.3301	0.3919	0.5124	0.28	No
		4-year school, no degree	10.13	9.80	10.04	0.09	0.2824	0.3375	0.4401	0.20	No
		4-year degree	17.38	12.54	16.05	1.33	0.4635	0.5521	0.7208	1.84	No
		Master's degree	6.21	4.71	5.79	0.41	0.2666	0.3201	0.4166	0.99	No
		Ph.D. degree	1.84	1.23	1.67	0.17	0.1432	0.1778	0.2283	0.73	No
		Imputed value	3.09	5.98	3.88	-0.79	0.2023	0.2075	0.2898	2.73	Yes
		School sector									
		Public	91.97	93.40	92.36	-0.39	0.2849	0.3523	0.4531	0.87	No
		Catholic	4.72	3.01	4.25	0.47	0.1608	0.2080	0.2629	1.78	No
		Other private	3.32	3.59	3.39	-0.07	0.2332	0.2803	0.3647	0.20	No
		School locale									
		Urban	28.35	34.92	30.15	-1.80	0.7480	0.9591	1.2163	1.48	No
		Suburban	51.86	46.02	50.26	1.60	0.7954	1.0012	1.2787	1.25	No
		Rural	19.79	19.06	19.59	0.20	0.6261	0.8156	1.0282	0.19	No
		School region									
		Northeast	19.36	16.37	18.54	0.82	0.6524	0.8532	1.0741	0.76	No
		Midwest	24.66	22.71	24.13	0.54	0.6474	0.8163	1.0418	0.51	No
		South	31.45	41.83	34.30	-2.85	0.6644	0.8065	1.0449	2.73	Yes
		West	24.53	19.08	23.04	1.50	0.8138	0.9892	1.2809	1.17	No
		Reading achievement									
		Low quartile	21.38	34.47	24.97	-3.59	0.7193	0.7360	1.0291	3.49	Yes
		Medium 2 quartiles	50.15	49.52	49.98	0.17	0.5700	0.6135	0.8374	0.21	No
		High quartile	28.47	16.01	25.05	3.42	0.6232	0.7414	0.9686	3.53	Yes
		Math achievement									
		Low quartile	21.52	34.02	24.95	-3.43	0.7432	0.7659	1.0672	3.22	Yes
		Medium quartile	49.99	50.11	50.03	-0.03	0.5721	0.6501	0.8660	0.04	No
	High quartile	28.49	15.87	25.03	3.46	0.6786	0.7966	1.0464	3.31	Yes	
	Home language										
	No (non-English)	12.45	16.47	13.55	-1.10	0.5852	0.6909	0.9054	1.22	No	
	Yes (English)	87.27	76.68	84.36	2.91	0.6171	0.6964	0.9305	3.13	Yes	
	Imputed value	0.28	6.85	2.08	-1.80	0.1964	0.0713	0.2090	8.63	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS89J	Works as hard as possible when studies	Sex									
		Male	48.07	56.99	50.43	-2.36	0.5303	0.6537	0.8417	2.81	Yes
		Female	51.87	42.99	49.52	2.35	0.5307	0.6548	0.8428	2.79	Yes
		Imputed value	0.06	0.02	0.05	0.01	0.0215	0.0282	0.0354	0.29	No
		Race/ethnicity									
		American Indian	0.82	1.35	0.96	-0.14	0.1961	0.1888	0.2722	0.51	No
		Asian	3.97	3.86	3.94	0.03	0.2519	0.2793	0.3762	0.08	No
		Black	11.65	21.93	14.37	-2.72	0.6567	0.6388	0.9161	2.97	Yes
		Multiracial	4.33	3.88	4.21	0.12	0.2234	0.2599	0.3427	0.34	No
		White	64.73	47.88	60.27	4.47	0.9781	1.0452	1.4315	3.12	Yes
		Hispanic ethnicity	13.83	19.62	15.37	-1.53	0.8554	0.8865	1.2319	1.25	No
		Imputed value	0.67	1.48	0.88	-0.22	0.1015	0.0971	0.1405	1.54	No
		Mother's education attainment									
		No High School Diploma	10.99	16.43	12.43	-1.44	0.5097	0.5317	0.7365	1.96	No
		High School Graduate	26.70	26.76	26.72	-0.01	0.4797	0.5428	0.7244	0.02	No
		2-year school, no degree	12.89	11.80	12.60	0.29	0.3480	0.4301	0.5532	0.52	No
		2-year school, degree	10.92	10.48	10.80	0.12	0.3301	0.3878	0.5093	0.23	No
		4-year school, no degree	10.09	9.90	10.04	0.05	0.2824	0.3389	0.4411	0.11	No
		4-year degree	17.28	12.66	16.05	1.22	0.4635	0.5481	0.7178	1.70	No
		Master's degree	6.18	4.72	5.79	0.39	0.2666	0.3170	0.4142	0.93	No
		Ph.D. degree	1.84	1.22	1.67	0.16	0.1432	0.1762	0.2270	0.72	No
		Imputed value	3.11	6.03	3.88	-0.77	0.2023	0.2050	0.2880	2.68	Yes
		School sector									
		Public	91.99	93.39	92.36	-0.37	0.2849	0.3499	0.4513	0.82	No
		Catholic	4.68	3.06	4.25	0.43	0.1608	0.2030	0.2589	1.65	No
		Other private	3.33	3.55	3.39	-0.06	0.2332	0.2809	0.3651	0.16	No
		School locale									
		Urban	28.44	34.91	30.15	-1.71	0.7480	0.9570	1.2146	1.41	No
		Suburban	51.97	45.50	50.26	1.71	0.7954	0.9996	1.2775	1.34	No
		Rural	19.59	19.59	19.59	0.00	0.6261	0.8095	1.0233	0.00	No
		School region									
		Northeast	19.37	16.24	18.54	0.83	0.6524	0.8457	1.0681	0.78	No
		Midwest	24.68	22.58	24.13	0.56	0.6474	0.8217	1.0461	0.53	No
		South	31.61	41.76	34.30	-2.69	0.6644	0.8070	1.0453	2.58	Yes
		West	24.34	19.42	23.04	1.31	0.8138	0.9854	1.2780	1.02	No
		Reading achievement									
		Low quartile	21.65	34.20	24.97	-3.32	0.7193	0.7363	1.0293	3.23	Yes
		Medium 2 quartiles	50.01	49.90	49.98	0.03	0.5700	0.6193	0.8416	0.03	No
		High quartile	28.34	15.90	25.05	3.30	0.6232	0.7390	0.9667	3.41	Yes
		Math achievement									
		Low quartile	21.70	33.95	24.95	-3.24	0.7432	0.7549	1.0594	3.06	Yes
		Medium quartile	49.94	50.25	50.03	-0.08	0.5721	0.6389	0.8576	0.10	No
		High quartile	28.35	15.80	25.03	3.33	0.6786	0.7917	1.0427	3.19	Yes
		Home language									
		No (non-English)	12.47	16.56	13.55	-1.09	0.5852	0.6901	0.9048	1.20	No
		Yes (English)	87.19	76.53	84.36	2.83	0.6171	0.6945	0.9291	3.04	Yes
		Imputed value	0.35	6.91	2.08	-1.74	0.1964	0.0837	0.2135	8.15	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS89K	Can do excellent job on English tests	Sex										
		Male	48.01	56.78	50.43	-2.42	0.5303	0.6558	0.8434	2.87	Yes	
		Female	51.94	43.15	49.52	2.42	0.5307	0.6565	0.8442	2.87	Yes	
		Imputed value	0.05	0.07	0.05	-0.01	0.0215	0.0233	0.0317	0.23	No	
		Race/ethnicity										
		American Indian	0.81	1.37	0.96	-0.15	0.1961	0.1901	0.2731	0.56	No	
		Asian	3.96	3.89	3.94	0.02	0.2519	0.2759	0.3736	0.05	No	
		Black	11.57	21.73	14.37	-2.80	0.6567	0.6367	0.9147	3.06	Yes	
		Multiracial	4.23	4.16	4.21	0.02	0.2234	0.2517	0.3366	0.05	No	
		White	65.07	47.67	60.27	4.80	0.9781	1.0536	1.4376	3.34	Yes	
		Hispanic ethnicity	13.71	19.71	15.37	-1.65	0.8554	0.8965	1.2391	1.34	No	
		Imputed value	0.66	1.47	0.88	-0.22	0.1015	0.0978	0.1410	1.60	No	
		Mother's education attainment										
		No High School Diploma	10.88	16.51	12.43	-1.55	0.5097	0.5304	0.7356	2.11	Yes	
		High School Graduate	26.61	26.99	26.72	-0.10	0.4797	0.5445	0.7257	0.14	No	
		2-year school, no degree	12.85	11.94	12.60	0.25	0.3480	0.4314	0.5542	0.46	No	
		2-year school, degree	10.92	10.49	10.80	0.12	0.3301	0.3897	0.5108	0.23	No	
		4-year school, no degree	10.16	9.72	10.04	0.12	0.2824	0.3347	0.4379	0.28	No	
		4-year degree	17.39	12.56	16.05	1.33	0.4635	0.5544	0.7227	1.84	No	
		Master's degree	6.20	4.72	5.79	0.41	0.2666	0.3212	0.4175	0.98	No	
		Ph.D. degree	1.85	1.21	1.67	0.18	0.1432	0.1787	0.2290	0.77	No	
		Imputed value	3.13	5.87	3.88	-0.76	0.2023	0.2079	0.2901	2.60	Yes	
		School sector										
		Public	92.00	93.30	92.36	-0.36	0.2849	0.3551	0.4553	0.79	No	
		Catholic	4.72	3.02	4.25	0.47	0.1608	0.2128	0.2667	1.75	No	
		Other private	3.28	3.67	3.39	-0.11	0.2332	0.2803	0.3646	0.30	No	
		School locale										
		Urban	28.18	35.33	30.15	-1.97	0.7480	0.9540	1.2123	1.63	No	
		Suburban	52.05	45.56	50.26	1.79	0.7954	1.0079	1.2839	1.39	No	
		Rural	19.77	19.11	19.59	0.18	0.6261	0.8262	1.0366	0.18	No	
		School region										
		Northeast	19.31	16.50	18.54	0.78	0.6524	0.8492	1.0708	0.72	No	
		Midwest	24.68	22.67	24.13	0.56	0.6474	0.8229	1.0471	0.53	No	
		South	31.45	41.77	34.30	-2.85	0.6644	0.8134	1.0503	2.71	Yes	
		West	24.55	19.06	23.04	1.51	0.8138	1.0014	1.2904	1.17	No	
		Reading achievement										
		Low quartile	21.45	34.23	24.97	-3.52	0.7193	0.7330	1.0270	3.43	Yes	
		Medium 2 quartiles	50.11	49.62	49.98	0.14	0.5700	0.6124	0.8366	0.16	No	
		High quartile	28.44	16.15	25.05	3.39	0.6232	0.7412	0.9684	3.50	Yes	
		Math achievement										
		Low quartile	21.62	33.70	24.95	-3.33	0.7432	0.7624	1.0647	3.13	Yes	
		Medium quartile	49.84	50.51	50.03	-0.18	0.5721	0.6429	0.8606	0.21	No	
High quartile	28.54	15.79	25.03	3.52	0.6786	0.7927	1.0435	3.37	Yes			
Home language												
No (non-English)	12.37	16.65	13.55	-1.18	0.5852	0.6940	0.9078	1.30	No			
Yes (English)	87.35	76.52	84.36	2.99	0.6171	0.6992	0.9326	3.21	Yes			
Imputed value	0.28	6.83	2.08	-1.81	0.1964	0.0712	0.2090	8.65	Yes			

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS89L	Can understand difficult math class	Sex										
		Male	48.09	56.77	50.43	-2.35	0.5303	0.6548	0.8426	2.78	Yes	
		Female	51.85	43.20	49.52	2.34	0.5307	0.6559	0.8437	2.77	Yes	
		Imputed value	0.06	0.03	0.05	0.01	0.0215	0.0283	0.0355	0.24	No	
		Race/ethnicity										
		American Indian	0.83	1.32	0.96	-0.13	0.1961	0.1902	0.2732	0.48	No	
		Asian	3.99	3.80	3.94	0.05	0.2519	0.2770	0.3744	0.14	No	
		Black	11.54	22.02	14.37	-2.83	0.6567	0.6342	0.9130	3.10	Yes	
		Multiracial	4.25	4.11	4.21	0.04	0.2234	0.2569	0.3405	0.11	No	
		White	64.95	47.62	60.27	4.68	0.9781	1.0486	1.4340	3.27	Yes	
		Hispanic ethnicity	13.76	19.71	15.37	-1.61	0.8554	0.8935	1.2369	1.30	No	
		Imputed value	0.68	1.43	0.88	-0.20	0.1015	0.1045	0.1457	1.40	No	
		Mother's education attainment										
		No High School Diploma	10.85	16.71	12.43	-1.58	0.5097	0.5346	0.7386	2.15	Yes	
		High School Graduate	26.69	26.79	26.72	-0.03	0.4797	0.5393	0.7218	0.04	No	
		2-year school, no degree	12.79	12.11	12.60	0.18	0.3480	0.4226	0.5474	0.33	No	
		2-year school, degree	10.88	10.60	10.80	0.08	0.3301	0.3905	0.5114	0.15	No	
		4-year school, no degree	10.17	9.69	10.04	0.13	0.2824	0.3401	0.4420	0.30	No	
		4-year degree	17.38	12.48	16.05	1.32	0.4635	0.5452	0.7156	1.85	No	
		Master's degree	6.22	4.65	5.79	0.42	0.2666	0.3190	0.4158	1.02	No	
		Ph.D. degree	1.85	1.19	1.67	0.18	0.1432	0.1775	0.2280	0.78	No	
		Imputed value	3.18	5.79	3.88	-0.71	0.2023	0.2061	0.2888	2.45	Yes	
		School sector										
		Public	91.93	93.51	92.36	-0.43	0.2849	0.3514	0.4524	0.94	No	
		Catholic	4.73	2.94	4.25	0.48	0.1608	0.2058	0.2612	1.86	No	
		Other private	3.33	3.55	3.39	-0.06	0.2332	0.2807	0.3649	0.16	No	
		School locale										
		Urban	28.36	35.00	30.15	-1.79	0.7480	0.9442	1.2046	1.49	No	
		Suburban	51.97	45.62	50.26	1.72	0.7954	0.9972	1.2756	1.35	No	
		Rural	19.67	19.38	19.59	0.08	0.6261	0.8167	1.0291	0.07	No	
		School region										
		Northeast	19.30	16.48	18.54	0.76	0.6524	0.8375	1.0616	0.72	No	
		Midwest	24.85	22.19	24.13	0.72	0.6474	0.8210	1.0455	0.69	No	
		South	31.54	41.75	34.30	-2.76	0.6644	0.8059	1.0445	2.64	Yes	
		West	24.31	19.58	23.04	1.28	0.8138	0.9877	1.2797	1.00	No	
		Reading achievement										
		Low quartile	21.60	34.08	24.97	-3.37	0.7193	0.7406	1.0324	3.27	Yes	
		Medium 2 quartiles	49.93	50.10	49.98	-0.05	0.5700	0.6192	0.8416	0.05	No	
		High quartile	28.47	15.81	25.05	3.42	0.6232	0.7392	0.9668	3.54	Yes	
		Math achievement										
		Low quartile	21.74	33.60	24.95	-3.20	0.7432	0.7638	1.0657	3.01	Yes	
		Medium quartile	49.70	50.90	50.03	-0.32	0.5721	0.6430	0.8607	0.38	No	
		High quartile	28.55	15.50	25.03	3.53	0.6786	0.7881	1.0400	3.39	Yes	
		Home language										
		No (non-English)	12.48	16.45	13.55	-1.07	0.5852	0.6935	0.9074	1.18	No	
		Yes (English)	87.14	76.87	84.36	2.77	0.6171	0.6983	0.9319	2.98	Yes	
		Imputed value	0.39	6.67	2.08	-1.70	0.1964	0.0871	0.2149	7.91	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS89M	Can master skills in English class	Sex										
		Male	48.11	56.40	50.43	-2.32	0.5303	0.6542	0.8422	2.76	Yes	
		Female	51.83	43.57	49.52	2.31	0.5307	0.6553	0.8432	2.74	Yes	
		Imputed value	0.06	0.03	0.05	0.01	0.0215	0.0287	0.0359	0.27	No	
		Race/ethnicity										
		American Indian	0.81	1.35	0.96	-0.15	0.1961	0.1912	0.2739	0.54	No	
		Asian	3.98	3.83	3.94	0.04	0.2519	0.2823	0.3784	0.11	No	
		Black	11.46	21.88	14.37	-2.92	0.6567	0.6355	0.9139	3.19	Yes	
		Multiracial	4.28	4.03	4.21	0.07	0.2234	0.2595	0.3424	0.20	No	
		White	65.14	47.72	60.27	4.88	0.9781	1.0598	1.4422	3.38	Yes	
		Hispanic ethnicity	13.66	19.74	15.37	-1.70	0.8554	0.9049	1.2452	1.37	No	
		Imputed value	0.66	1.45	0.88	-0.22	0.1015	0.0985	0.1415	1.57	No	
		Mother's education attainment										
		No High School Diploma	10.78	16.68	12.43	-1.65	0.5097	0.5372	0.7405	2.23	Yes	
		High School Graduate	26.71	26.73	26.72	-0.01	0.4797	0.5414	0.7234	0.01	No	
		2-year school, no degree	12.80	12.10	12.60	0.20	0.3480	0.4321	0.5548	0.35	No	
		2-year school, degree	10.94	10.47	10.80	0.13	0.3301	0.3931	0.5134	0.26	No	
		4-year school, no degree	10.16	9.74	10.04	0.12	0.2824	0.3415	0.4431	0.27	No	
		4-year degree	17.42	12.54	16.05	1.37	0.4635	0.5555	0.7235	1.89	No	
		Master's degree	6.22	4.70	5.79	0.43	0.2666	0.3214	0.4176	1.02	No	
		Ph.D. degree	1.85	1.23	1.67	0.17	0.1432	0.1790	0.2293	0.75	No	
		Imputed value	3.13	5.82	3.88	-0.75	0.2023	0.2075	0.2898	2.60	Yes	
		School sector										
		Public	91.96	93.38	92.36	-0.40	0.2849	0.3596	0.4588	0.87	No	
		Catholic	4.75	2.96	4.25	0.50	0.1608	0.2115	0.2657	1.89	No	
		Other private	3.29	3.65	3.39	-0.10	0.2332	0.2871	0.3699	0.28	No	
		School locale										
		Urban	28.15	35.30	30.15	-2.00	0.7480	0.9607	1.2176	1.64	No	
		Suburban	52.07	45.59	50.26	1.82	0.7954	1.0144	1.2891	1.41	No	
		Rural	19.78	19.11	19.59	0.19	0.6261	0.8287	1.0386	0.18	No	
		School region										
		Northeast	19.39	16.35	18.54	0.85	0.6524	0.8614	1.0806	0.79	No	
		Midwest	24.80	22.39	24.13	0.67	0.6474	0.8277	1.0508	0.64	No	
		South	31.33	41.94	34.30	-2.97	0.6644	0.8152	1.0516	2.83	Yes	
		West	24.49	19.31	23.04	1.45	0.8138	1.0079	1.2955	1.12	No	
		Reading achievement										
		Low quartile	21.38	34.21	24.97	-3.59	0.7193	0.7322	1.0263	3.50	Yes	
		Medium 2 quartiles	50.13	49.59	49.98	0.15	0.5700	0.6184	0.8410	0.18	No	
		High quartile	28.49	16.20	25.05	3.44	0.6232	0.7464	0.9723	3.54	Yes	
		Math achievement										
		Low quartile	21.60	33.57	24.95	-3.35	0.7432	0.7596	1.0627	3.15	Yes	
		Medium quartile	49.81	50.58	50.03	-0.21	0.5721	0.6495	0.8655	0.25	No	
		High quartile	28.59	15.85	25.03	3.57	0.6786	0.7967	1.0465	3.41	Yes	
		Home language										
		No (non-English)	12.38	16.55	13.55	-1.17	0.5852	0.7018	0.9137	1.28	No	
		Yes (English)	87.34	76.70	84.36	2.98	0.6171	0.7070	0.9385	3.17	Yes	
		Imputed value	0.27	6.74	2.08	-1.81	0.1964	0.0716	0.2091	8.66	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS89N	Can get no bad grades if decides to	Sex										
		Male	48.18	56.42	50.43	-2.25	0.5303	0.6577	0.8448	2.66	Yes	
		Female	51.76	43.55	49.52	2.24	0.5307	0.6590	0.8461	2.65	Yes	
		Imputed value	0.06	0.03	0.05	0.01	0.0215	0.0284	0.0356	0.25	No	
		Race/ethnicity										
		American Indian	0.81	1.37	0.96	-0.15	0.1961	0.1895	0.2727	0.56	No	
		Asian	4.00	3.79	3.94	0.06	0.2519	0.2814	0.3777	0.15	No	
		Black	11.66	21.60	14.37	-2.72	0.6567	0.6440	0.9198	2.95	Yes	
		Multiracial	4.24	4.12	4.21	0.03	0.2234	0.2570	0.3406	0.10	No	
		White	64.92	47.90	60.27	4.65	0.9781	1.0508	1.4356	3.24	Yes	
		Hispanic ethnicity	13.71	19.78	15.37	-1.66	0.8554	0.8890	1.2336	1.35	No	
		Imputed value	0.67	1.45	0.88	-0.21	0.1015	0.0979	0.1410	1.52	No	
		Mother's education attainment										
		No High School Diploma	10.87	16.58	12.43	-1.56	0.5097	0.5358	0.7395	2.11	Yes	
		High School Graduate	26.62	26.97	26.72	-0.09	0.4797	0.5359	0.7192	0.13	No	
		2-year school, no degree	12.78	12.12	12.60	0.18	0.3480	0.4265	0.5504	0.33	No	
		2-year school, degree	10.90	10.54	10.80	0.10	0.3301	0.3903	0.5112	0.19	No	
		4-year school, no degree	10.22	9.56	10.04	0.18	0.2824	0.3462	0.4467	0.40	No	
		4-year degree	17.39	12.51	16.05	1.34	0.4635	0.5459	0.7161	1.86	No	
		Master's degree	6.21	4.70	5.79	0.41	0.2666	0.3188	0.4156	0.99	No	
		Ph.D. degree	1.83	1.25	1.67	0.16	0.1432	0.1780	0.2284	0.70	No	
		Imputed value	3.17	5.78	3.88	-0.71	0.2023	0.2065	0.2891	2.47	Yes	
		School sector										
		Public	91.96	93.43	92.36	-0.40	0.2849	0.3522	0.4530	0.88	No	
		Catholic	4.73	2.98	4.25	0.48	0.1608	0.2051	0.2606	1.83	No	
		Other private	3.31	3.59	3.39	-0.08	0.2332	0.2822	0.3661	0.21	No	
		School locale										
		Urban	28.40	34.80	30.15	-1.75	0.7480	0.9522	1.2109	1.44	No	
		Suburban	52.03	45.54	50.26	1.77	0.7954	1.0034	1.2804	1.38	No	
		Rural	19.57	19.65	19.59	-0.02	0.6261	0.8219	1.0332	0.02	No	
		School region										
		Northeast	19.40	16.26	18.54	0.86	0.6524	0.8539	1.0746	0.80	No	
		Midwest	24.71	22.58	24.13	0.58	0.6474	0.8286	1.0515	0.55	No	
		South	31.54	41.63	34.30	-2.76	0.6644	0.8035	1.0426	2.65	Yes	
		West	24.36	19.53	23.04	1.32	0.8138	0.9898	1.2814	1.03	No	
		Reading achievement										
		Low quartile	21.53	34.12	24.97	-3.44	0.7193	0.7342	1.0278	3.35	Yes	
		Medium 2 quartiles	50.08	49.71	49.98	0.10	0.5700	0.6209	0.8428	0.12	No	
		High quartile	28.39	16.17	25.05	3.34	0.6232	0.7411	0.9683	3.45	Yes	
		Math achievement										
		Low quartile	21.74	33.49	24.95	-3.21	0.7432	0.7665	1.0676	3.01	Yes	
		Medium quartile	49.80	50.62	50.03	-0.23	0.5721	0.6528	0.8680	0.26	No	
		High quartile	28.46	15.89	25.03	3.44	0.6786	0.7932	1.0438	3.29	Yes	
		Home language										
		No (non-English)	12.46	16.45	13.55	-1.09	0.5852	0.6850	0.9009	1.21	No	
		Yes (English)	87.14	76.97	84.36	2.78	0.6171	0.6908	0.9263	3.00	Yes	
		Imputed value	0.40	6.57	2.08	-1.69	0.1964	0.0831	0.2133	7.91	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS890	Keeps studying even if material is difficult	Sex										
		Male	48.02	56.54	50.43	-2.41	0.5303	0.6586	0.8455	2.85	Yes	
		Female	51.92	43.43	49.52	2.40	0.5307	0.6597	0.8467	2.84	Yes	
		Imputed value	0.06	0.03	0.05	0.01	0.0215	0.0288	0.0360	0.27	No	
		Race/ethnicity										
		American Indian	0.82	1.33	0.96	-0.14	0.1961	0.1920	0.2744	0.53	No	
		Asian	3.96	3.87	3.94	0.03	0.2519	0.2801	0.3767	0.07	No	
		Black	11.46	21.75	14.37	-2.91	0.6567	0.6363	0.9144	3.19	Yes	
		Multiracial	4.29	3.99	4.21	0.09	0.2234	0.2588	0.3419	0.25	No	
		White	65.11	48.01	60.27	4.84	0.9781	1.0603	1.4426	3.36	Yes	
		Hispanic ethnicity	13.69	19.60	15.37	-1.67	0.8554	0.8992	1.2410	1.35	No	
		Imputed value	0.66	1.45	0.88	-0.22	0.1015	0.0984	0.1414	1.57	No	
		Mother's education attainment										
		No High School Diploma	10.80	16.57	12.43	-1.63	0.5097	0.5385	0.7414	2.20	Yes	
		High School Graduate	26.71	26.73	26.72	-0.01	0.4797	0.5424	0.7241	0.01	No	
		2-year school, no degree	12.79	12.13	12.60	0.18	0.3480	0.4253	0.5495	0.34	No	
		2-year school, degree	10.91	10.55	10.80	0.10	0.3301	0.3953	0.5150	0.20	No	
		4-year school, no degree	10.19	9.66	10.04	0.15	0.2824	0.3431	0.4443	0.34	No	
		4-year degree	17.39	12.66	16.05	1.34	0.4635	0.5577	0.7252	1.85	No	
		Master's degree	6.21	4.73	5.79	0.42	0.2666	0.3217	0.4178	1.00	No	
		Ph.D. degree	1.87	1.19	1.67	0.19	0.1432	0.1806	0.2305	0.83	No	
		Imputed value	3.14	5.77	3.88	-0.75	0.2023	0.2094	0.2911	2.56	Yes	
		School sector										
		Public	92.03	93.21	92.36	-0.34	0.2849	0.3531	0.4537	0.74	No	
		Catholic	4.74	3.01	4.25	0.49	0.1608	0.2121	0.2661	1.83	No	
		Other private	3.24	3.78	3.39	-0.15	0.2332	0.2779	0.3628	0.42	No	
		School locale										
		Urban	28.17	35.17	30.15	-1.98	0.7480	0.9577	1.2152	1.63	No	
		Suburban	52.13	45.52	50.26	1.87	0.7954	1.0158	1.2902	1.45	No	
		Rural	19.70	19.31	19.59	0.11	0.6261	0.8376	1.0458	0.10	No	
		School region										
		Northeast	19.45	16.22	18.54	0.92	0.6524	0.8614	1.0806	0.85	No	
		Midwest	24.78	22.49	24.13	0.65	0.6474	0.8364	1.0577	0.61	No	
		South	31.29	41.92	34.30	-3.01	0.6644	0.8177	1.0536	2.86	Yes	
		West	24.48	19.37	23.04	1.45	0.8138	1.0007	1.2898	1.12	No	
		Reading achievement										
		Low quartile	21.46	33.87	24.97	-3.51	0.7193	0.7384	1.0308	3.41	Yes	
		Medium 2 quartiles	50.07	49.75	49.98	0.09	0.5700	0.6143	0.8380	0.11	No	
		High quartile	28.47	16.38	25.05	3.42	0.6232	0.7484	0.9739	3.51	Yes	
		Math achievement										
		Low quartile	21.68	33.22	24.95	-3.27	0.7432	0.7703	1.0704	3.05	Yes	
		Medium quartile	49.70	50.86	50.03	-0.33	0.5721	0.6458	0.8628	0.38	No	
		High quartile	28.62	15.92	25.03	3.60	0.6786	0.8032	1.0515	3.42	Yes	
		Home language										
		No (non-English)	12.42	16.43	13.55	-1.14	0.5852	0.7008	0.9130	1.24	No	
		Yes (English)	87.30	76.92	84.36	2.94	0.6171	0.7062	0.9379	3.14	Yes	
		Imputed value	0.28	6.66	2.08	-1.80	0.1964	0.0720	0.2092	8.63	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS89P	Studies to ensure financial security	Sex										
		Male	48.25	56.12	50.43	-2.18	0.5303	0.6463	0.8360	2.61	Yes	
		Female	51.69	43.85	49.52	2.17	0.5307	0.6475	0.8372	2.59	Yes	
		Imputed value	0.06	0.03	0.05	0.01	0.0215	0.0285	0.0358	0.26	No	
		Race/ethnicity										
		American Indian	0.81	1.35	0.96	-0.15	0.1961	0.1905	0.2734	0.54	No	
		Asian	3.94	3.94	3.94	0.00	0.2519	0.2777	0.3749	0.00	No	
		Black	11.60	21.60	14.37	-2.77	0.6567	0.6453	0.9207	3.01	Yes	
		Multiracial	4.34	3.87	4.21	0.13	0.2234	0.2603	0.3430	0.37	No	
		White	64.84	48.34	60.27	4.57	0.9781	1.0611	1.4431	3.17	Yes	
		Hispanic ethnicity	13.79	19.49	15.37	-1.58	0.8554	0.8981	1.2402	1.27	No	
		Imputed value	0.68	1.41	0.88	-0.20	0.1015	0.1052	0.1462	1.38	No	
		Mother's education attainment										
		No High School Diploma	10.86	16.54	12.43	-1.58	0.5097	0.5419	0.7439	2.12	Yes	
		High School Graduate	26.62	26.98	26.72	-0.10	0.4797	0.5402	0.7225	0.14	No	
		2-year school, no degree	12.81	12.06	12.60	0.21	0.3480	0.4185	0.5443	0.38	No	
		2-year school, degree	10.86	10.65	10.80	0.06	0.3301	0.3891	0.5102	0.12	No	
		4-year school, no degree	10.20	9.62	10.04	0.16	0.2824	0.3394	0.4415	0.36	No	
		4-year degree	17.36	12.64	16.05	1.31	0.4635	0.5446	0.7152	1.83	No	
		Master's degree	6.18	4.78	5.79	0.39	0.2666	0.3195	0.4161	0.93	No	
		Ph.D. degree	1.87	1.17	1.67	0.19	0.1432	0.1791	0.2293	0.84	No	
		Imputed value	3.24	5.56	3.88	-0.64	0.2023	0.2083	0.2904	2.21	Yes	
		School sector										
		Public	92.03	93.22	92.36	-0.33	0.2849	0.3505	0.4517	0.73	No	
		Catholic	4.74	2.98	4.25	0.49	0.1608	0.2017	0.2579	1.88	No	
		Other private	3.23	3.80	3.39	-0.16	0.2332	0.2827	0.3665	0.43	No	
		School locale										
		Urban	28.28	35.04	30.15	-1.87	0.7480	0.9543	1.2125	1.54	No	
		Suburban	52.23	45.12	50.26	1.97	0.7954	1.0055	1.2821	1.54	No	
		Rural	19.49	19.84	19.59	-0.10	0.6261	0.8202	1.0319	0.09	No	
		School region										
		Northeast	19.39	16.32	18.54	0.85	0.6524	0.8484	1.0702	0.79	No	
		Midwest	24.87	22.19	24.13	0.74	0.6474	0.8290	1.0519	0.71	No	
		South	31.29	42.15	34.30	-3.01	0.6644	0.8109	1.0483	2.87	Yes	
		West	24.45	19.35	23.04	1.41	0.8138	0.9891	1.2809	1.10	No	
		Reading achievement										
		Low quartile	21.71	33.50	24.97	-3.27	0.7193	0.7392	1.0314	3.17	Yes	
		Medium 2 quartiles	50.05	49.79	49.98	0.07	0.5700	0.6173	0.8402	0.08	No	
		High quartile	28.24	16.71	25.05	3.20	0.6232	0.7470	0.9728	3.28	Yes	
		Math achievement										
		Low quartile	21.96	32.74	24.95	-2.99	0.7432	0.7685	1.0691	2.79	Yes	
		Medium quartile	49.66	50.98	50.03	-0.36	0.5721	0.6600	0.8735	0.42	No	
		High quartile	28.38	16.29	25.03	3.35	0.6786	0.8048	1.0527	3.18	Yes	
		Home language										
		No (non-English)	12.44	16.44	13.55	-1.11	0.5852	0.6906	0.9052	1.22	No	
		Yes (English)	87.18	77.02	84.36	2.82	0.6171	0.6987	0.9322	3.02	Yes	
		Imputed value	0.38	6.54	2.08	-1.71	0.1964	0.0894	0.2158	7.91	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS89Q	Can get no problems wrong if decides to	Sex										
		Male	48.06	56.32	50.43	-2.37	0.5303	0.6557	0.8433	2.81	Yes	
		Female	51.89	43.62	49.52	2.37	0.5307	0.6574	0.8449	2.81	Yes	
		Imputed value	0.05	0.05	0.05	0.00	0.0215	0.0269	0.0345	0.01	No	
		Race/ethnicity										
		American Indian	0.81	1.34	0.96	-0.15	0.1961	0.1846	0.2693	0.56	No	
		Asian	3.96	3.88	3.94	0.02	0.2519	0.2799	0.3765	0.07	No	
		Black	11.42	21.73	14.37	-2.96	0.6567	0.6349	0.9134	3.24	Yes	
		Multiracial	4.29	4.00	4.21	0.08	0.2234	0.2617	0.3441	0.24	No	
		White	65.19	48.03	60.27	4.92	0.9781	1.0634	1.4449	3.41	Yes	
		Hispanic ethnicity	13.67	19.58	15.37	-1.69	0.8554	0.9085	1.2478	1.36	No	
		Imputed value	0.66	1.44	0.88	-0.23	0.1015	0.0986	0.1416	1.60	No	
		Mother's education attainment										
		No High School Diploma	10.81	16.46	12.43	-1.62	0.5097	0.5404	0.7428	2.18	Yes	
		High School Graduate	26.63	26.92	26.72	-0.08	0.4797	0.5386	0.7213	0.12	No	
		2-year school, no degree	12.87	11.93	12.60	0.27	0.3480	0.4294	0.5527	0.49	No	
		2-year school, degree	10.90	10.56	10.80	0.10	0.3301	0.3990	0.5178	0.19	No	
		4-year school, no degree	10.22	9.58	10.04	0.18	0.2824	0.3429	0.4442	0.41	No	
		4-year degree	17.37	12.78	16.05	1.32	0.4635	0.5560	0.7239	1.82	No	
		Master's degree	6.21	4.75	5.79	0.42	0.2666	0.3195	0.4161	1.01	No	
		Ph.D. degree	1.85	1.23	1.67	0.18	0.1432	0.1792	0.2294	0.78	No	
		Imputed value	3.12	5.79	3.88	-0.77	0.2023	0.2072	0.2896	2.65	Yes	
		School sector										
		Public	92.06	93.10	92.36	-0.30	0.2849	0.3520	0.4529	0.66	No	
		Catholic	4.74	3.03	4.25	0.49	0.1608	0.2132	0.2670	1.83	No	
		Other private	3.20	3.87	3.39	-0.19	0.2332	0.2753	0.3608	0.53	No	
		School locale										
		Urban	28.11	35.22	30.15	-2.04	0.7480	0.9697	1.2247	1.66	No	
		Suburban	52.22	45.38	50.26	1.96	0.7954	1.0225	1.2955	1.52	No	
		Rural	19.66	19.40	19.59	0.08	0.6261	0.8297	1.0394	0.07	No	
		School region										
		Northeast	19.45	16.27	18.54	0.91	0.6524	0.8630	1.0818	0.84	No	
		Midwest	24.79	22.49	24.13	0.66	0.6474	0.8373	1.0585	0.62	No	
		South	31.22	41.95	34.30	-3.08	0.6644	0.8215	1.0566	2.91	Yes	
		West	24.54	19.30	23.04	1.50	0.8138	1.0145	1.3006	1.16	No	
		Reading achievement										
		Low quartile	21.41	33.84	24.97	-3.57	0.7193	0.7311	1.0256	3.48	Yes	
		Medium 2 quartiles	50.12	49.62	49.98	0.14	0.5700	0.6200	0.8421	0.17	No	
		High quartile	28.47	16.54	25.05	3.42	0.6232	0.7458	0.9719	3.52	Yes	
		Math achievement										
		Low quartile	21.68	33.07	24.95	-3.27	0.7432	0.7602	1.0631	3.07	Yes	
		Medium quartile	49.67	50.90	50.03	-0.35	0.5721	0.6560	0.8704	0.40	No	
		High quartile	28.64	16.03	25.03	3.62	0.6786	0.8044	1.0524	3.44	Yes	
		Home language										
		No (non-English)	12.39	16.44	13.55	-1.16	0.5852	0.6993	0.9119	1.27	No	
		Yes (English)	87.33	76.99	84.36	2.97	0.6171	0.7047	0.9367	3.17	Yes	
		Imputed value	0.28	6.57	2.08	-1.80	0.1964	0.0724	0.2093	8.62	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS89R	Can do excellent job on math assignments	Sex										
		Male	48.15	56.22	50.43	-2.28	0.5303	0.6553	0.8430	2.71	Yes	
		Female	51.79	43.75	49.52	2.27	0.5307	0.6567	0.8443	2.69	Yes	
		Imputed value	0.06	0.03	0.05	0.01	0.0215	0.0288	0.0360	0.27	No	
		Race/ethnicity										
		American Indian	0.83	1.30	0.96	-0.13	0.1961	0.1928	0.2750	0.48	No	
		Asian	3.96	3.87	3.94	0.03	0.2519	0.2768	0.3743	0.07	No	
		Black	11.60	21.40	14.37	-2.77	0.6567	0.6491	0.9234	3.00	Yes	
		Multiracial	4.29	4.01	4.21	0.08	0.2234	0.2571	0.3406	0.23	No	
		White	64.98	48.34	60.27	4.71	0.9781	1.0590	1.4416	3.27	Yes	
		Hispanic ethnicity	13.68	19.64	15.37	-1.69	0.8554	0.8941	1.2373	1.36	No	
		Imputed value	0.66	1.44	0.88	-0.22	0.1015	0.1048	0.1459	1.51	No	
		Mother's education attainment										
		No High School Diploma	10.78	16.62	12.43	-1.65	0.5097	0.5381	0.7412	2.23	Yes	
		High School Graduate	26.51	27.25	26.72	-0.21	0.4797	0.5385	0.7212	0.29	No	
		2-year school, no degree	12.77	12.17	12.60	0.17	0.3480	0.4267	0.5506	0.31	No	
		2-year school, degree	11.07	10.13	10.80	0.26	0.3301	0.4001	0.5187	0.51	No	
		4-year school, no degree	10.23	9.56	10.04	0.19	0.2824	0.3473	0.4476	0.42	No	
		4-year degree	17.39	12.67	16.05	1.34	0.4635	0.5518	0.7207	1.86	No	
		Master's degree	6.22	4.73	5.79	0.42	0.2666	0.3205	0.4169	1.01	No	
		Ph.D. degree	1.85	1.23	1.67	0.17	0.1432	0.1782	0.2286	0.76	No	
		Imputed value	3.19	5.64	3.88	-0.69	0.2023	0.2110	0.2923	2.38	Yes	
		School sector										
		Public	92.08	93.06	92.36	-0.28	0.2849	0.3429	0.4458	0.62	No	
		Catholic	4.72	3.05	4.25	0.47	0.1608	0.2079	0.2628	1.80	No	
		Other private	3.19	3.89	3.39	-0.20	0.2332	0.2671	0.3546	0.55	No	
		School locale										
		Urban	28.26	34.95	30.15	-1.89	0.7480	0.9603	1.2173	1.55	No	
		Suburban	52.16	45.43	50.26	1.90	0.7954	1.0158	1.2902	1.48	No	
		Rural	19.58	19.62	19.59	-0.01	0.6261	0.8399	1.0476	0.01	No	
		School region										
		Northeast	19.51	16.06	18.54	0.98	0.6524	0.8592	1.0788	0.90	No	
		Midwest	24.82	22.38	24.13	0.69	0.6474	0.8376	1.0587	0.65	No	
		South	31.27	41.98	34.30	-3.03	0.6644	0.8214	1.0564	2.87	Yes	
		West	24.40	19.58	23.04	1.37	0.8138	0.9928	1.2837	1.06	No	
		Reading achievement										
		Low quartile	21.51	33.76	24.97	-3.47	0.7193	0.7353	1.0286	3.37	Yes	
		Medium 2 quartiles	50.10	49.66	49.98	0.12	0.5700	0.6193	0.8417	0.15	No	
		High quartile	28.39	16.58	25.05	3.34	0.6232	0.7409	0.9681	3.45	Yes	
		Math achievement										
		Low quartile	21.71	33.16	24.95	-3.24	0.7432	0.7735	1.0727	3.02	Yes	
		Medium quartile	49.74	50.75	50.03	-0.29	0.5721	0.6563	0.8707	0.33	No	
		High quartile	28.55	16.09	25.03	3.53	0.6786	0.7967	1.0465	3.37	Yes	
		Home language										
		No (non-English)	12.51	16.20	13.55	-1.05	0.5852	0.6927	0.9068	1.15	No	
		Yes (English)	87.16	77.29	84.36	2.79	0.6171	0.6996	0.9329	2.99	Yes	
		Imputed value	0.34	6.51	2.08	-1.75	0.1964	0.0791	0.2118	8.25	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS89S	Does best to learn what studies	Sex										
		Male	48.11	56.03	50.43	-2.32	0.5303	0.6558	0.8434	2.75	Yes	
		Female	51.83	43.94	49.52	2.31	0.5307	0.6571	0.8446	2.74	Yes	
		Imputed value	0.06	0.03	0.05	0.01	0.0215	0.0292	0.0363	0.29	No	
		Race/ethnicity										
		American Indian	0.83	1.29	0.96	-0.13	0.1961	0.1947	0.2763	0.48	No	
		Asian	4.00	3.78	3.94	0.06	0.2519	0.2808	0.3772	0.17	No	
		Black	11.42	21.51	14.37	-2.96	0.6567	0.6428	0.9190	3.22	Yes	
		Multiracial	4.21	4.20	4.21	0.01	0.2234	0.2527	0.3373	0.02	No	
		White	65.20	48.36	60.27	4.93	0.9781	1.0632	1.4447	3.41	Yes	
		Hispanic ethnicity	13.67	19.45	15.37	-1.69	0.8554	0.8959	1.2387	1.37	No	
		Imputed value	0.67	1.41	0.88	-0.22	0.1015	0.0997	0.1423	1.53	No	
		Mother's education attainment										
		No High School Diploma	10.83	16.29	12.43	-1.60	0.5097	0.5487	0.7489	2.14	Yes	
		High School Graduate	26.57	27.06	26.72	-0.14	0.4797	0.5457	0.7266	0.20	No	
		2-year school, no degree	12.86	11.99	12.60	0.25	0.3480	0.4283	0.5519	0.46	No	
		2-year school, degree	10.93	10.50	10.80	0.12	0.3301	0.3912	0.5119	0.24	No	
		4-year school, no degree	10.21	9.63	10.04	0.17	0.2824	0.3482	0.4483	0.37	No	
		4-year degree	17.37	12.88	16.05	1.32	0.4635	0.5645	0.7304	1.80	No	
		Master's degree	6.27	4.64	5.79	0.48	0.2666	0.3217	0.4178	1.14	No	
		Ph.D. degree	1.82	1.32	1.67	0.15	0.1432	0.1787	0.2290	0.64	No	
		Imputed value	3.14	5.68	3.88	-0.75	0.2023	0.2137	0.2943	2.53	Yes	
		School sector										
		Public	92.04	93.14	92.36	-0.32	0.2849	0.3516	0.4526	0.71	No	
		Catholic	4.73	3.08	4.25	0.48	0.1608	0.2114	0.2656	1.83	No	
		Other private	3.23	3.78	3.39	-0.16	0.2332	0.2760	0.3613	0.45	No	
		School locale										
		Urban	28.05	35.24	30.15	-2.11	0.7480	0.9701	1.2250	1.72	No	
		Suburban	52.27	45.41	50.26	2.01	0.7954	1.0251	1.2975	1.55	No	
		Rural	19.69	19.36	19.59	0.10	0.6261	0.8473	1.0535	0.09	No	
		School region										
		Northeast	19.46	16.30	18.54	0.93	0.6524	0.8644	1.0829	0.85	No	
		Midwest	24.69	22.78	24.13	0.56	0.6474	0.8366	1.0579	0.53	No	
		South	31.27	41.60	34.30	-3.03	0.6644	0.8301	1.0633	2.85	Yes	
		West	24.58	19.31	23.04	1.54	0.8138	1.0089	1.2962	1.19	No	
		Reading achievement										
		Low quartile	21.26	33.93	24.97	-3.71	0.7193	0.7378	1.0304	3.60	Yes	
		Medium 2 quartiles	50.27	49.28	49.98	0.29	0.5700	0.6188	0.8413	0.34	No	
		High quartile	28.47	16.79	25.05	3.42	0.6232	0.7445	0.9709	3.53	Yes	
		Math achievement										
		Low quartile	21.51	33.25	24.95	-3.44	0.7432	0.7683	1.0689	3.22	Yes	
		Medium quartile	49.88	50.39	50.03	-0.15	0.5721	0.6585	0.8723	0.17	No	
		High quartile	28.61	16.37	25.03	3.59	0.6786	0.7971	1.0468	3.43	Yes	
		Home language										
		No (non-English)	12.35	16.44	13.55	-1.20	0.5852	0.7002	0.9125	1.31	No	
		Yes (English)	87.36	77.13	84.36	3.00	0.6171	0.7059	0.9376	3.20	Yes	
		Imputed value	0.28	6.43	2.08	-1.80	0.1964	0.0730	0.2096	8.59	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS89T	Can learn something well if wants to	Sex										
		Male	48.18	56.00	50.43	-2.26	0.5303	0.6567	0.8440	2.67	Yes	
		Female	51.77	43.94	49.52	2.26	0.5307	0.6577	0.8451	2.67	Yes	
		Imputed value	0.05	0.05	0.05	0.00	0.0215	0.0241	0.0323	0.03	No	
		Race/ethnicity										
		American Indian	0.85	1.25	0.96	-0.12	0.1961	0.1859	0.2702	0.43	No	
		Asian	3.96	3.88	3.94	0.02	0.2519	0.2781	0.3752	0.06	No	
		Black	11.61	21.21	14.37	-2.77	0.6567	0.6407	0.9175	3.01	Yes	
		Multiracial	4.24	4.13	4.21	0.03	0.2234	0.2564	0.3401	0.10	No	
		White	64.98	48.62	60.27	4.71	0.9781	1.0605	1.4427	3.27	Yes	
		Hispanic ethnicity	13.71	19.45	15.37	-1.65	0.8554	0.8977	1.2400	1.33	No	
		Imputed value	0.65	1.46	0.88	-0.23	0.1015	0.0985	0.1415	1.66	No	
		Mother's education attainment										
		No High School Diploma	10.85	16.33	12.43	-1.58	0.5097	0.5449	0.7461	2.12	Yes	
		High School Graduate	26.50	27.26	26.72	-0.22	0.4797	0.5450	0.7261	0.30	No	
		2-year school, no degree	12.85	12.00	12.60	0.24	0.3480	0.4257	0.5498	0.44	No	
		2-year school, degree	10.99	10.34	10.80	0.19	0.3301	0.3988	0.5177	0.37	No	
		4-year school, no degree	10.19	9.66	10.04	0.15	0.2824	0.3473	0.4476	0.35	No	
		4-year degree	17.40	12.73	16.05	1.35	0.4635	0.5622	0.7286	1.85	No	
		Master's degree	6.24	4.69	5.79	0.45	0.2666	0.3229	0.4188	1.06	No	
		Ph.D. degree	1.80	1.36	1.67	0.13	0.1432	0.1772	0.2278	0.55	No	
		Imputed value	3.18	5.63	3.88	-0.71	0.2023	0.2101	0.2917	2.42	Yes	
		School sector										
		Public	92.06	93.12	92.36	-0.31	0.2849	0.3403	0.4438	0.69	No	
		Catholic	4.75	3.00	4.25	0.50	0.1608	0.2053	0.2608	1.93	No	
		Other private	3.19	3.88	3.39	-0.20	0.2332	0.2650	0.3530	0.56	No	
		School locale										
		Urban	28.21	34.94	30.15	-1.94	0.7480	0.9726	1.2269	1.58	No	
		Suburban	52.17	45.52	50.26	1.92	0.7954	1.0223	1.2953	1.48	No	
		Rural	19.61	19.53	19.59	0.02	0.6261	0.8396	1.0474	0.02	No	
		School region										
		Northeast	19.52	16.11	18.54	0.98	0.6524	0.8663	1.0844	0.90	No	
		Midwest	24.80	22.46	24.13	0.68	0.6474	0.8440	1.0637	0.63	No	
		South	31.25	41.83	34.30	-3.05	0.6644	0.8169	1.0529	2.90	Yes	
		West	24.43	19.60	23.04	1.39	0.8138	1.0061	1.2940	1.08	No	
		Reading achievement										
		Low quartile	21.61	33.27	24.97	-3.36	0.7193	0.7393	1.0315	3.26	Yes	
		Medium 2 quartiles	50.06	49.76	49.98	0.09	0.5700	0.6211	0.8430	0.10	No	
		High quartile	28.32	16.96	25.05	3.27	0.6232	0.7386	0.9664	3.39	Yes	
		Math achievement										
		Low quartile	21.72	32.93	24.95	-3.23	0.7432	0.7666	1.0677	3.03	Yes	
		Medium quartile	49.76	50.68	50.03	-0.26	0.5721	0.6596	0.8731	0.30	No	
		High quartile	28.52	16.40	25.03	3.49	0.6786	0.7920	1.0429	3.35	Yes	
		Home language										
		No (non-English)	12.38	16.44	13.55	-1.17	0.5852	0.6918	0.9061	1.29	No	
		Yes (English)	87.28	77.16	84.36	2.92	0.6171	0.6970	0.9309	3.13	Yes	
		Imputed value	0.34	6.40	2.08	-1.75	0.1964	0.0854	0.2142	8.16	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS89U	Can master math class skills	Sex										
		Male	48.03	56.18	50.43	-2.40	0.5303	0.6638	0.8496	2.83	Yes	
		Female	51.92	43.77	49.52	2.40	0.5307	0.6655	0.8512	2.82	Yes	
		Imputed value	0.05	0.05	0.05	0.00	0.0215	0.0272	0.0347	0.00	No	
		Race/ethnicity										
		American Indian	0.83	1.28	0.96	-0.13	0.1961	0.1951	0.2766	0.48	No	
		Asian	3.97	3.86	3.94	0.03	0.2519	0.2779	0.3751	0.08	No	
		Black	11.52	21.22	14.37	-2.86	0.6567	0.6467	0.9217	3.10	Yes	
		Multiracial	4.26	4.09	4.21	0.05	0.2234	0.2611	0.3437	0.14	No	
		White	65.20	48.46	60.27	4.93	0.9781	1.0728	1.4518	3.40	Yes	
		Hispanic ethnicity	13.58	19.64	15.37	-1.78	0.8554	0.8965	1.2391	1.44	No	
		Imputed value	0.64	1.45	0.88	-0.24	0.1015	0.0988	0.1417	1.68	No	
		Mother's education attainment										
		No High School Diploma	10.71	16.55	12.43	-1.72	0.5097	0.5414	0.7435	2.31	Yes	
		High School Graduate	26.49	27.26	26.72	-0.23	0.4797	0.5321	0.7164	0.32	No	
		2-year school, no degree	12.82	12.08	12.60	0.22	0.3480	0.4324	0.5551	0.40	No	
		2-year school, degree	11.04	10.23	10.80	0.24	0.3301	0.4032	0.5211	0.46	No	
		4-year school, no degree	10.20	9.65	10.04	0.16	0.2824	0.3431	0.4444	0.37	No	
		4-year degree	17.41	12.80	16.05	1.36	0.4635	0.5666	0.7320	1.86	No	
		Master's degree	6.28	4.63	5.79	0.49	0.2666	0.3254	0.4207	1.16	No	
		Ph.D. degree	1.86	1.24	1.67	0.18	0.1432	0.1810	0.2308	0.79	No	
		Imputed value	3.18	5.57	3.88	-0.70	0.2023	0.2123	0.2932	2.40	Yes	
		School sector										
		Public	92.02	93.19	92.36	-0.35	0.2849	0.3570	0.4568	0.76	No	
		Catholic	4.75	3.04	4.25	0.50	0.1608	0.2121	0.2662	1.90	No	
		Other private	3.23	3.77	3.39	-0.16	0.2332	0.2827	0.3665	0.44	No	
		School locale										
		Urban	28.14	34.98	30.15	-2.02	0.7480	0.9715	1.2261	1.64	No	
		Suburban	52.18	45.65	50.26	1.92	0.7954	1.0287	1.3003	1.48	No	
		Rural	19.68	19.37	19.59	0.09	0.6261	0.8432	1.0502	0.09	No	
		School region										
		Northeast	19.43	16.41	18.54	0.89	0.6524	0.8766	1.0927	0.81	No	
		Midwest	24.81	22.49	24.13	0.68	0.6474	0.8410	1.0613	0.64	No	
		South	31.26	41.58	34.30	-3.04	0.6644	0.8277	1.0614	2.86	Yes	
		West	24.50	19.52	23.04	1.47	0.8138	1.0146	1.3007	1.13	No	
		Reading achievement										
		Low quartile	21.38	33.57	24.97	-3.59	0.7193	0.7471	1.0370	3.46	Yes	
		Medium 2 quartiles	50.12	49.63	49.98	0.15	0.5700	0.6197	0.8420	0.17	No	
		High quartile	28.49	16.80	25.05	3.44	0.6232	0.7546	0.9787	3.52	Yes	
		Math achievement										
		Low quartile	21.66	32.83	24.95	-3.29	0.7432	0.7763	1.0747	3.06	Yes	
		Medium quartile	49.76	50.66	50.03	-0.26	0.5721	0.6626	0.8754	0.30	No	
		High quartile	28.58	16.52	25.03	3.55	0.6786	0.7993	1.0485	3.39	Yes	
		Home language										
		No (non-English)	12.25	16.66	13.55	-1.30	0.5852	0.6983	0.9110	1.42	No	
		Yes (English)	87.46	76.95	84.36	3.10	0.6171	0.7040	0.9362	3.31	Yes	
		Imputed value	0.28	6.40	2.08	-1.80	0.1964	0.0732	0.2096	8.59	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS89V	Puts forth best effort when studying	Sex										
		Male	48.07	56.28	50.43	-2.36	0.5303	0.6639	0.8497	2.78	Yes	
		Female	51.88	43.67	49.52	2.36	0.5307	0.6648	0.8506	2.78	Yes	
		Imputed value	0.05	0.05	0.05	0.00	0.0215	0.0242	0.0324	0.04	No	
		Race/ethnicity										
		American Indian	0.82	1.31	0.96	-0.14	0.1961	0.1934	0.2754	0.51	No	
		Asian	3.98	3.83	3.94	0.05	0.2519	0.2771	0.3745	0.12	No	
		Black	11.66	21.08	14.37	-2.71	0.6567	0.6483	0.9228	2.94	Yes	
		Multiracial	4.23	4.15	4.21	0.02	0.2234	0.2575	0.3409	0.07	No	
		White	65.02	48.52	60.27	4.75	0.9781	1.0566	1.4398	3.30	Yes	
		Hispanic ethnicity	13.62	19.69	15.37	-1.75	0.8554	0.8824	1.2290	1.42	No	
		Imputed value	0.67	1.42	0.88	-0.22	0.1015	0.0982	0.1413	1.54	No	
		Mother's education attainment										
		No High School Diploma	10.77	16.53	12.43	-1.66	0.5097	0.5387	0.7416	2.23	Yes	
		High School Graduate	26.45	27.39	26.72	-0.27	0.4797	0.5366	0.7198	0.38	No	
		2-year school, no degree	12.84	12.01	12.60	0.24	0.3480	0.4274	0.5511	0.43	No	
		2-year school, degree	10.98	10.37	10.80	0.18	0.3301	0.3924	0.5128	0.34	No	
		4-year school, no degree	10.27	9.48	10.04	0.23	0.2824	0.3490	0.4489	0.51	No	
		4-year degree	17.37	12.80	16.05	1.32	0.4635	0.5601	0.7270	1.81	No	
		Master's degree	6.25	4.68	5.79	0.45	0.2666	0.3248	0.4202	1.08	No	
		Ph.D. degree	1.82	1.32	1.67	0.14	0.1432	0.1777	0.2282	0.62	No	
		Imputed value	3.26	5.43	3.88	-0.63	0.2023	0.2119	0.2929	2.14	Yes	
		School sector										
		Public	92.04	93.16	92.36	-0.32	0.2849	0.3455	0.4478	0.73	No	
		Catholic	4.75	3.00	4.25	0.50	0.1608	0.2064	0.2617	1.92	No	
		Other private	3.21	3.83	3.39	-0.18	0.2332	0.2719	0.3582	0.50	No	
		School locale										
		Urban	28.26	34.83	30.15	-1.89	0.7480	0.9614	1.2181	1.55	No	
		Suburban	52.15	45.59	50.26	1.89	0.7954	1.0133	1.2882	1.47	No	
		Rural	19.59	19.59	19.59	0.00	0.6261	0.8325	1.0416	0.00	No	
		School region										
		Northeast	19.53	16.08	18.54	0.99	0.6524	0.8640	1.0826	0.92	No	
		Midwest	24.72	22.67	24.13	0.59	0.6474	0.8259	1.0494	0.56	No	
		South	31.32	41.66	34.30	-2.98	0.6644	0.8162	1.0524	2.83	Yes	
		West	24.43	19.60	23.04	1.39	0.8138	0.9966	1.2867	1.08	No	
		Reading achievement										
		Low quartile	21.50	33.57	24.97	-3.47	0.7193	0.7322	1.0264	3.39	Yes	
		Medium 2 quartiles	50.14	49.57	49.98	0.16	0.5700	0.6105	0.8352	0.20	No	
		High quartile	28.36	16.86	25.05	3.31	0.6232	0.7410	0.9682	3.42	Yes	
		Math achievement										
		Low quartile	21.72	32.92	24.95	-3.22	0.7432	0.7678	1.0686	3.02	Yes	
		Medium quartile	49.77	50.65	50.03	-0.25	0.5721	0.6530	0.8682	0.29	No	
		High quartile	28.50	16.42	25.03	3.48	0.6786	0.7971	1.0468	3.32	Yes	
		Home language										
		No (non-English)	12.32	16.60	13.55	-1.23	0.5852	0.6844	0.9005	1.37	No	
		Yes (English)	87.42	76.81	84.36	3.06	0.6171	0.6893	0.9252	3.30	Yes	
		Imputed value	0.26	6.59	2.08	-1.82	0.1964	0.0687	0.2081	8.76	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS90A	Important to friends to attend classes regularly	Sex										
		Male	48.04	56.12	50.43	-2.39	0.5303	0.6593	0.8461	2.83	Yes	
		Female	51.89	43.87	49.52	2.37	0.5307	0.6604	0.8472	2.80	Yes	
			Imputed value	0.07	0.01	0.05	0.02	0.0215	0.0305	0.0373	0.52	No
			Race/ethnicity									
			American Indian	0.79	1.38	0.96	-0.18	0.1961	0.1917	0.2743	0.65	No
			Asian	4.00	3.80	3.94	0.06	0.2519	0.2893	0.3836	0.15	No
			Black	11.40	21.44	14.37	-2.97	0.6567	0.6268	0.9079	3.27	Yes
			Multiracial	4.28	4.05	4.21	0.07	0.2234	0.2571	0.3407	0.20	No
			White	65.17	48.62	60.27	4.90	0.9781	1.0689	1.4489	3.38	Yes
			Hispanic ethnicity	13.72	19.28	15.37	-1.65	0.8554	0.9180	1.2547	1.31	No
			Imputed value	0.65	1.43	0.88	-0.23	0.1015	0.0992	0.1420	1.63	No
			Mother's education attainment									
			No High School Diploma	10.87	16.14	12.43	-1.56	0.5097	0.5599	0.7571	2.06	Yes
			High School Graduate	26.64	26.90	26.72	-0.08	0.4797	0.5426	0.7243	0.11	No
			2-year school, no degree	12.86	12.00	12.60	0.25	0.3480	0.4296	0.5528	0.46	No
			2-year school, degree	10.79	10.83	10.80	-0.01	0.3301	0.4002	0.5188	0.02	No
			4-year school, no degree	10.13	9.82	10.04	0.09	0.2824	0.3405	0.4423	0.21	No
			4-year degree	17.48	12.67	16.05	1.43	0.4635	0.5665	0.7320	1.95	No
			Master's degree	6.31	4.57	5.79	0.52	0.2666	0.3258	0.4210	1.23	No
			Ph.D. degree	1.79	1.39	1.67	0.12	0.1432	0.1738	0.2252	0.53	No
			Imputed value	3.13	5.68	3.88	-0.76	0.2023	0.2129	0.2937	2.58	Yes
			School sector									
			Public	91.95	93.35	92.36	-0.41	0.2849	0.3562	0.4561	0.91	No
			Catholic	4.75	3.07	4.25	0.50	0.1608	0.2101	0.2646	1.88	No
			Other private	3.31	3.59	3.39	-0.08	0.2332	0.2819	0.3658	0.23	No
			School locale									
			Urban	28.40	34.32	30.15	-1.75	0.7480	0.9838	1.2358	1.42	No
			Suburban	51.96	46.20	50.26	1.71	0.7954	1.0405	1.3097	1.30	No
			Rural	19.63	19.48	19.59	0.04	0.6261	0.8489	1.0548	0.04	No
			School region									
			Northeast	19.48	16.29	18.54	0.94	0.6524	0.8711	1.0883	0.87	No
			Midwest	24.67	22.84	24.13	0.54	0.6474	0.8437	1.0635	0.51	No
			South	31.14	41.81	34.30	-3.16	0.6644	0.8368	1.0685	2.96	Yes
			West	24.71	19.05	23.04	1.68	0.8138	1.0439	1.3237	1.27	No
			Reading achievement									
			Low quartile	21.65	32.88	24.97	-3.33	0.7193	0.7520	1.0406	3.20	Yes
			Medium 2 quartiles	50.00	49.93	49.98	0.02	0.5700	0.6217	0.8434	0.02	No
			High quartile	28.35	17.18	25.05	3.31	0.6232	0.7405	0.9678	3.42	Yes
			Math achievement									
			Low quartile	21.79	32.45	24.95	-3.16	0.7432	0.7693	1.0697	2.95	Yes
			Medium quartile	49.72	50.75	50.03	-0.30	0.5721	0.6639	0.8764	0.35	No
			High quartile	28.49	16.80	25.03	3.46	0.6786	0.7996	1.0487	3.30	Yes
			Home language									
			No (non-English)	12.43	16.22	13.55	-1.12	0.5852	0.7157	0.9245	1.21	No
			Yes (English)	87.22	77.58	84.36	2.85	0.6171	0.7221	0.9499	3.00	Yes
			Imputed value	0.35	6.20	2.08	-1.73	0.1964	0.0785	0.2115	8.19	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS90B	Important to friends to study	Sex									
		Male	47.96	56.47	50.43	-2.47	0.5303	0.6500	0.8389	2.95	Yes
		Female	51.97	43.52	49.52	2.45	0.5307	0.6510	0.8399	2.92	Yes
		Imputed value	0.07	0.01	0.05	0.02	0.0215	0.0302	0.0371	0.50	No
		Race/ethnicity									
		American Indian	0.78	1.41	0.96	-0.18	0.1961	0.1902	0.2732	0.67	No
		Asian	3.99	3.80	3.94	0.05	0.2519	0.2861	0.3812	0.14	No
		Black	11.57	21.23	14.37	-2.80	0.6567	0.6365	0.9146	3.07	Yes
		Multiracial	4.22	4.18	4.21	0.01	0.2234	0.2534	0.3379	0.04	No
		White	64.88	48.99	60.27	4.62	0.9781	1.0708	1.4503	3.18	Yes
		Hispanic ethnicity	13.88	19.00	15.37	-1.49	0.8554	0.9201	1.2562	1.18	No
		Imputed value	0.67	1.40	0.88	-0.21	0.1015	0.0995	0.1421	1.48	No
		Mother's education attainment									
		No High School Diploma	11.08	15.74	12.43	-1.35	0.5097	0.5559	0.7542	1.79	No
		High School Graduate	26.60	27.01	26.72	-0.12	0.4797	0.5356	0.7190	0.17	No
		2-year school, no degree	12.82	12.08	12.60	0.21	0.3480	0.4204	0.5457	0.39	No
		2-year school, degree	10.83	10.73	10.80	0.03	0.3301	0.3990	0.5178	0.06	No
		4-year school, no degree	10.14	9.78	10.04	0.10	0.2824	0.3378	0.4403	0.24	No
		4-year degree	17.30	13.01	16.05	1.25	0.4635	0.5594	0.7265	1.72	No
		Master's degree	6.30	4.57	5.79	0.50	0.2666	0.3247	0.4201	1.20	No
		Ph.D. degree	1.79	1.39	1.67	0.12	0.1432	0.1731	0.2247	0.51	No
		Imputed value	3.14	5.69	3.88	-0.74	0.2023	0.2108	0.2922	2.54	Yes
		School sector									
		Public	92.01	93.22	92.36	-0.35	0.2849	0.3547	0.4549	0.77	No
		Catholic	4.71	3.13	4.25	0.46	0.1608	0.2086	0.2634	1.74	No
		Other private	3.28	3.65	3.39	-0.11	0.2332	0.2822	0.3661	0.29	No
		School locale									
		Urban	28.41	34.41	30.15	-1.74	0.7480	0.9642	1.2203	1.43	No
		Suburban	52.08	45.81	50.26	1.82	0.7954	1.0222	1.2952	1.41	No
		Rural	19.51	19.78	19.59	-0.08	0.6261	0.8351	1.0437	0.08	No
		School region									
		Northeast	19.46	16.28	18.54	0.92	0.6524	0.8536	1.0744	0.86	No
		Midwest	24.73	22.67	24.13	0.60	0.6474	0.8299	1.0525	0.57	No
		South	31.21	41.84	34.30	-3.09	0.6644	0.8201	1.0555	2.92	Yes
		West	24.60	19.21	23.04	1.57	0.8138	1.0283	1.3114	1.19	No
		Reading achievement									
		Low quartile	21.79	32.75	24.97	-3.18	0.7193	0.7465	1.0367	3.07	Yes
		Medium 2 quartiles	49.86	50.26	49.98	-0.12	0.5700	0.6170	0.8400	0.14	No
		High quartile	28.35	16.99	25.05	3.30	0.6232	0.7367	0.9649	3.42	Yes
		Math achievement									
		Low quartile	21.92	32.35	24.95	-3.03	0.7432	0.7634	1.0654	2.84	Yes
		Medium quartile	49.64	50.97	50.03	-0.39	0.5721	0.6596	0.8731	0.44	No
		High quartile	28.44	16.68	25.03	3.42	0.6786	0.7943	1.0447	3.27	Yes
		Home language									
		No (non-English)	12.55	16.00	13.55	-1.00	0.5852	0.7166	0.9252	1.08	No
		Yes (English)	87.02	77.87	84.36	2.66	0.6171	0.7249	0.9520	2.79	Yes
		Imputed value	0.43	6.13	2.08	-1.66	0.1964	0.0836	0.2135	7.75	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS90C	Important to friends to play sports	Sex										
		Male	48.17	55.68	50.43	-2.27	0.5303	0.6567	0.8441	2.69	Yes	
		Female	51.76	44.31	49.52	2.25	0.5307	0.6576	0.8450	2.66	Yes	
		Imputed value	0.07	0.01	0.05	0.02	0.0215	0.0307	0.0375	0.53	No	
		Race/ethnicity										
		American Indian	0.79	1.37	0.96	-0.17	0.1961	0.1932	0.2753	0.63	No	
		Asian	3.99	3.81	3.94	0.05	0.2519	0.2918	0.3855	0.14	No	
		Black	11.30	21.49	14.37	-3.07	0.6567	0.6261	0.9074	3.39	Yes	
		Multiracial	4.22	4.18	4.21	0.01	0.2234	0.2527	0.3373	0.03	No	
		White	65.24	48.74	60.27	4.97	0.9781	1.0776	1.4553	3.42	Yes	
		Hispanic ethnicity	13.80	18.99	15.37	-1.56	0.8554	0.9206	1.2567	1.24	No	
		Imputed value	0.65	1.41	0.88	-0.23	0.1015	0.0998	0.1424	1.61	No	
		Mother's education attainment										
		No High School Diploma	10.88	16.02	12.43	-1.55	0.5097	0.5592	0.7566	2.05	Yes	
		High School Graduate	26.66	26.86	26.72	-0.06	0.4797	0.5463	0.7270	0.08	No	
		2-year school, no degree	12.79	12.17	12.60	0.19	0.3480	0.4273	0.5511	0.34	No	
		2-year school, degree	10.87	10.65	10.80	0.07	0.3301	0.3988	0.5177	0.13	No	
		4-year school, no degree	10.15	9.78	10.04	0.11	0.2824	0.3435	0.4447	0.25	No	
		4-year degree	17.45	12.83	16.05	1.39	0.4635	0.5610	0.7277	1.92	No	
		Master's degree	6.24	4.76	5.79	0.45	0.2666	0.3254	0.4207	1.07	No	
		Ph.D. degree	1.81	1.35	1.67	0.14	0.1432	0.1760	0.2269	0.61	No	
		Imputed value	3.15	5.59	3.88	-0.74	0.2023	0.2148	0.2950	2.49	Yes	
		School sector										
		Public	91.98	93.25	92.36	-0.38	0.2849	0.3577	0.4573	0.84	No	
		Catholic	4.75	3.09	4.25	0.50	0.1608	0.2107	0.2650	1.89	No	
		Other private	3.27	3.66	3.39	-0.12	0.2332	0.2839	0.3674	0.32	No	
		School locale										
		Urban	28.37	34.29	30.15	-1.78	0.7480	0.9838	1.2359	1.44	No	
		Suburban	52.07	46.07	50.26	1.81	0.7954	1.0398	1.3091	1.38	No	
		Rural	19.56	19.65	19.59	-0.02	0.6261	0.8426	1.0497	0.02	No	
		School region										
		Northeast	19.53	16.24	18.54	0.99	0.6524	0.8747	1.0912	0.91	No	
		Midwest	24.75	22.69	24.13	0.62	0.6474	0.8447	1.0643	0.58	No	
		South	30.96	42.04	34.30	-3.34	0.6644	0.8356	1.0676	3.13	Yes	
		West	24.77	19.03	23.04	1.73	0.8138	1.0384	1.3193	1.31	No	
		Reading achievement										
		Low quartile	21.57	32.85	24.97	-3.40	0.7193	0.7502	1.0393	3.27	Yes	
		Medium 2 quartiles	49.89	50.17	49.98	-0.08	0.5700	0.6241	0.8452	0.10	No	
		High quartile	28.53	16.98	25.05	3.48	0.6232	0.7477	0.9734	3.58	Yes	
		Math achievement										
		Low quartile	21.73	32.41	24.95	-3.22	0.7432	0.7658	1.0671	3.02	Yes	
		Medium quartile	49.66	50.88	50.03	-0.37	0.5721	0.6578	0.8718	0.42	No	
		High quartile	28.62	16.71	25.03	3.59	0.6786	0.8052	1.0530	3.41	Yes	
		Home language										
		No (non-English)	12.43	16.14	13.55	-1.12	0.5852	0.7227	0.9299	1.20	No	
		Yes (English)	87.21	77.77	84.36	2.85	0.6171	0.7289	0.9551	2.98	Yes	
		Imputed value	0.36	6.09	2.08	-1.73	0.1964	0.0791	0.2118	8.17	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS90D	Important to friends to get good grades	Sex										
		Male	48.19	55.74	50.43	-2.24	0.5303	0.6516	0.8402	2.67	Yes	
		Female	51.74	44.25	49.52	2.22	0.5307	0.6526	0.8412	2.64	Yes	
		Imputed value	0.07	0.01	0.05	0.02	0.0215	0.0305	0.0374	0.52	No	
		Race/ethnicity										
		American Indian	0.78	1.39	0.96	-0.18	0.1961	0.1907	0.2736	0.66	No	
		Asian	4.03	3.73	3.94	0.09	0.2519	0.2870	0.3819	0.23	No	
		Black	11.48	21.23	14.37	-2.89	0.6567	0.6228	0.9051	3.20	Yes	
		Multiracial	4.24	4.13	4.21	0.03	0.2234	0.2548	0.3389	0.10	No	
		White	64.95	49.19	60.27	4.68	0.9781	1.0670	1.4475	3.23	Yes	
		Hispanic ethnicity	13.85	18.95	15.37	-1.51	0.8554	0.9099	1.2488	1.21	No	
		Imputed value	0.67	1.39	0.88	-0.22	0.1015	0.0999	0.1424	1.51	No	
		Mother's education attainment										
		No High School Diploma	11.03	15.75	12.43	-1.40	0.5097	0.5536	0.7525	1.86	No	
		High School Graduate	26.50	27.24	26.72	-0.22	0.4797	0.5470	0.7276	0.30	No	
		2-year school, no degree	12.82	12.09	12.60	0.22	0.3480	0.4276	0.5513	0.39	No	
		2-year school, degree	10.86	10.66	10.80	0.06	0.3301	0.4013	0.5196	0.12	No	
		4-year school, no degree	10.08	9.95	10.04	0.04	0.2824	0.3380	0.4405	0.09	No	
		4-year degree	17.44	12.76	16.05	1.39	0.4635	0.5605	0.7273	1.91	No	
		Master's degree	6.24	4.74	5.79	0.45	0.2666	0.3247	0.4202	1.06	No	
		Ph.D. degree	1.82	1.32	1.67	0.15	0.1432	0.1752	0.2263	0.66	No	
		Imputed value	3.20	5.49	3.88	-0.68	0.2023	0.2133	0.2940	2.31	Yes	
		School sector										
		Public	91.97	93.28	92.36	-0.39	0.2849	0.3533	0.4539	0.85	No	
		Catholic	4.72	3.15	4.25	0.47	0.1608	0.2058	0.2612	1.79	No	
		Other private	3.31	3.58	3.39	-0.08	0.2332	0.2824	0.3663	0.22	No	
		School locale										
		Urban	28.41	34.28	30.15	-1.74	0.7480	0.9629	1.2193	1.43	No	
		Suburban	52.16	45.75	50.26	1.90	0.7954	1.0181	1.2920	1.47	No	
		Rural	19.43	19.96	19.59	-0.16	0.6261	0.8242	1.0351	0.15	No	
		School region										
		Northeast	19.46	16.35	18.54	0.92	0.6524	0.8537	1.0744	0.86	No	
		Midwest	24.64	22.91	24.13	0.51	0.6474	0.8307	1.0532	0.49	No	
		South	31.25	41.52	34.30	-3.05	0.6644	0.8168	1.0529	2.90	Yes	
		West	24.65	19.21	23.04	1.62	0.8138	1.0198	1.3047	1.24	No	
		Reading achievement										
		Low quartile	21.59	32.98	24.97	-3.38	0.7193	0.7531	1.0414	3.25	Yes	
		Medium 2 quartiles	49.94	50.07	49.98	-0.04	0.5700	0.6207	0.8427	0.05	No	
		High quartile	28.47	16.95	25.05	3.42	0.6232	0.7398	0.9673	3.54	Yes	
		Math achievement										
		Low quartile	21.67	32.70	24.95	-3.27	0.7432	0.7592	1.0624	3.08	Yes	
		Medium quartile	49.81	50.55	50.03	-0.22	0.5721	0.6644	0.8767	0.25	No	
		High quartile	28.52	16.75	25.03	3.49	0.6786	0.7968	1.0465	3.34	Yes	
		Home language										
		No (non-English)	12.50	16.04	13.55	-1.05	0.5852	0.7085	0.9190	1.15	No	
		Yes (English)	87.10	77.89	84.36	2.73	0.6171	0.7156	0.9449	2.89	Yes	
		Imputed value	0.40	6.07	2.08	-1.68	0.1964	0.0806	0.2123	7.92	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS90E	Important to friends to be popular with students	Sex										
		Male	48.09	55.75	50.43	-2.34	0.5303	0.6662	0.8515	2.75	Yes	
		Female	51.84	44.24	49.52	2.32	0.5307	0.6671	0.8524	2.72	Yes	
			Imputed value	0.07	0.01	0.05	0.02	0.0215	0.0309	0.0377	0.54	No
			Race/ethnicity									
			American Indian	0.78	1.39	0.96	-0.19	0.1961	0.1911	0.2738	0.68	No
			Asian	4.02	3.74	3.94	0.09	0.2519	0.2904	0.3845	0.22	No
			Black	11.40	21.14	14.37	-2.97	0.6567	0.6241	0.9060	3.28	Yes
			Multiracial	4.26	4.10	4.21	0.05	0.2234	0.2553	0.3393	0.14	No
			White	65.23	48.99	60.27	4.96	0.9781	1.0593	1.4419	3.44	Yes
			Hispanic ethnicity	13.65	19.27	15.37	-1.72	0.8554	0.9029	1.2438	1.38	No
			Imputed value	0.67	1.38	0.88	-0.22	0.1015	0.1008	0.1431	1.51	No
			Mother's education attainment									
			No High School Diploma	10.92	15.86	12.43	-1.51	0.5097	0.5613	0.7581	1.99	Yes
			High School Graduate	26.62	26.93	26.72	-0.10	0.4797	0.5498	0.7297	0.13	No
			2-year school, no degree	12.78	12.20	12.60	0.17	0.3480	0.4230	0.5477	0.32	No
			2-year school, degree	10.82	10.77	10.80	0.02	0.3301	0.4030	0.5209	0.03	No
			4-year school, no degree	10.10	9.91	10.04	0.06	0.2824	0.3475	0.4477	0.13	No
			4-year degree	17.51	12.76	16.05	1.45	0.4635	0.5642	0.7302	1.99	Yes
			Master's degree	6.32	4.61	5.79	0.52	0.2666	0.3282	0.4228	1.24	No
			Ph.D. degree	1.79	1.40	1.67	0.12	0.1432	0.1758	0.2268	0.52	No
			Imputed value	3.15	5.55	3.88	-0.73	0.2023	0.2152	0.2953	2.49	Yes
			School sector									
			Public	91.92	93.37	92.36	-0.44	0.2849	0.3603	0.4594	0.97	No
			Catholic	4.76	3.08	4.25	0.51	0.1608	0.2147	0.2682	1.92	No
			Other private	3.32	3.55	3.39	-0.07	0.2332	0.2843	0.3677	0.19	No
			School locale									
			Urban	28.40	34.14	30.15	-1.75	0.7480	0.9739	1.2280	1.43	No
			Suburban	52.00	46.29	50.26	1.74	0.7954	1.0362	1.3063	1.33	No
			Rural	19.60	19.56	19.59	0.01	0.6261	0.8447	1.0514	0.01	No
			School region									
			Northeast	19.47	16.43	18.54	0.93	0.6524	0.8681	1.0859	0.86	No
			Midwest	24.77	22.67	24.13	0.64	0.6474	0.8391	1.0599	0.60	No
			South	31.08	41.62	34.30	-3.22	0.6644	0.8353	1.0673	3.02	Yes
			West	24.69	19.28	23.04	1.65	0.8138	1.0391	1.3198	1.25	No
			Reading achievement									
			Low quartile	21.54	32.77	24.97	-3.43	0.7193	0.7428	1.0340	3.32	Yes
			Medium 2 quartiles	49.96	50.02	49.98	-0.02	0.5700	0.6212	0.8431	0.02	No
			High quartile	28.50	17.21	25.05	3.45	0.6232	0.7482	0.9737	3.54	Yes
			Math achievement									
			Low quartile	21.68	32.37	24.95	-3.27	0.7432	0.7678	1.0686	3.06	Yes
			Medium quartile	49.75	50.64	50.03	-0.27	0.5721	0.6656	0.8777	0.31	No
			High quartile	28.56	16.99	25.03	3.54	0.6786	0.8082	1.0553	3.35	Yes
			Home language									
			No (non-English)	12.39	16.18	13.55	-1.16	0.5852	0.6956	0.9090	1.27	No
			Yes (English)	87.30	77.68	84.36	2.94	0.6171	0.7026	0.9351	3.14	Yes
			Imputed value	0.30	6.13	2.08	-1.78	0.1964	0.0727	0.2095	8.50	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS90F	Important to friends to finish high school	Sex									
		Male	48.17	55.75	50.43	-2.26	0.5303	0.6595	0.8463	2.68	Yes
		Female	51.76	44.25	49.52	2.24	0.5307	0.6606	0.8473	2.65	Yes
		Imputed value	0.07	0.01	0.05	0.02	0.0215	0.0306	0.0374	0.52	No
		Race/ethnicity									
		American Indian	0.78	1.40	0.96	-0.18	0.1961	0.1896	0.2728	0.68	No
		Asian	4.02	3.74	3.94	0.08	0.2519	0.2892	0.3835	0.22	No
		Black	11.40	21.35	14.37	-2.97	0.6567	0.6211	0.9039	3.29	Yes
		Multiracial	4.23	4.16	4.21	0.02	0.2234	0.2527	0.3373	0.06	No
		White	65.02	49.11	60.27	4.75	0.9781	1.0637	1.4451	3.29	Yes
		Hispanic ethnicity	13.91	18.77	15.37	-1.45	0.8554	0.9208	1.2568	1.15	No
		Imputed value	0.63	1.47	0.88	-0.25	0.1015	0.0974	0.1407	1.77	No
		Mother's education attainment									
		No High School Diploma	11.11	15.52	12.43	-1.32	0.5097	0.5562	0.7544	1.75	No
		High School Graduate	26.67	26.83	26.72	-0.05	0.4797	0.5430	0.7246	0.07	No
		2-year school, no degree	12.83	12.06	12.60	0.23	0.3480	0.4272	0.5510	0.42	No
		2-year school, degree	10.87	10.66	10.80	0.06	0.3301	0.4015	0.5198	0.12	No
		4-year school, no degree	10.03	10.07	10.04	-0.01	0.2824	0.3375	0.4400	0.03	No
		4-year degree	17.36	12.98	16.05	1.31	0.4635	0.5606	0.7274	1.80	No
		Master's degree	6.21	4.81	5.79	0.42	0.2666	0.3242	0.4198	1.00	No
		Ph.D. degree	1.78	1.42	1.67	0.11	0.1432	0.1737	0.2251	0.48	No
		Imputed value	3.13	5.64	3.88	-0.75	0.2023	0.2132	0.2939	2.55	Yes
		School sector									
		Public	91.95	93.33	92.36	-0.41	0.2849	0.3572	0.4569	0.91	No
		Catholic	4.75	3.08	4.25	0.50	0.1608	0.2107	0.2650	1.87	No
		Other private	3.31	3.58	3.39	-0.08	0.2332	0.2837	0.3673	0.22	No
		School locale									
		Urban	28.52	33.98	30.15	-1.63	0.7480	0.9684	1.2237	1.33	No
		Suburban	51.96	46.25	50.26	1.71	0.7954	1.0253	1.2977	1.31	No
		Rural	19.51	19.77	19.59	-0.08	0.6261	0.8423	1.0495	0.07	No
		School region									
		Northeast	19.45	16.39	18.54	0.92	0.6524	0.8558	1.0761	0.85	No
		Midwest	24.64	22.93	24.13	0.51	0.6474	0.8352	1.0568	0.48	No
		South	31.29	41.35	34.30	-3.01	0.6644	0.8229	1.0576	2.84	Yes
		West	24.62	19.33	23.04	1.58	0.8138	1.0296	1.3124	1.20	No
		Reading achievement									
		Low quartile	21.65	32.77	24.97	-3.32	0.7193	0.7507	1.0396	3.20	Yes
		Medium 2 quartiles	49.93	50.09	49.98	-0.05	0.5700	0.6274	0.8476	0.05	No
		High quartile	28.42	17.14	25.05	3.37	0.6232	0.7413	0.9685	3.48	Yes
		Math achievement									
		Low quartile	21.88	32.15	24.95	-3.07	0.7432	0.7744	1.0733	2.86	Yes
		Medium quartile	49.65	50.92	50.03	-0.38	0.5721	0.6702	0.8812	0.43	No
		High quartile	28.47	16.93	25.03	3.45	0.6786	0.8103	1.0569	3.26	Yes
		Home language									
		No (non-English)	12.55	15.89	13.55	-1.00	0.5852	0.7195	0.9274	1.08	No
		Yes (English)	87.04	78.09	84.36	2.67	0.6171	0.7258	0.9527	2.81	Yes
		Imputed value	0.41	6.02	2.08	-1.68	0.1964	0.0807	0.2124	7.89	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS90G	Important to friends to have steady boy/girlfriend	Sex									
		Male	48.08	55.71	50.43	-2.35	0.5303	0.6684	0.8532	2.75	Yes
		Female	51.84	44.28	49.52	2.33	0.5307	0.6694	0.8542	2.73	Yes
		Imputed value	0.07	0.01	0.05	0.02	0.0215	0.0310	0.0378	0.54	No
		Race/ethnicity									
		American Indian	0.77	1.40	0.96	-0.19	0.1961	0.1917	0.2742	0.71	No
		Asian	4.01	3.77	3.94	0.08	0.2519	0.2932	0.3866	0.20	No
		Black	11.36	21.14	14.37	-3.01	0.6567	0.6140	0.8990	3.35	Yes
		Multiracial	4.28	4.04	4.21	0.07	0.2234	0.2597	0.3426	0.22	No
		White	65.32	48.91	60.27	5.06	0.9781	1.0670	1.4475	3.49	Yes
		Hispanic ethnicity	13.62	19.29	15.37	-1.75	0.8554	0.9161	1.2533	1.39	No
		Imputed value	0.63	1.46	0.88	-0.26	0.1015	0.0978	0.1410	1.82	No
		Mother's education attainment									
		No High School Diploma	10.96	15.72	12.43	-1.47	0.5097	0.5584	0.7560	1.94	No
		High School Graduate	26.63	26.91	26.72	-0.09	0.4797	0.5447	0.7258	0.12	No
		2-year school, no degree	12.81	12.13	12.60	0.21	0.3480	0.4219	0.5469	0.39	No
		2-year school, degree	10.79	10.84	10.80	-0.02	0.3301	0.4061	0.5234	0.03	No
		4-year school, no degree	10.13	9.83	10.04	0.09	0.2824	0.3441	0.4451	0.21	No
		4-year degree	17.44	12.94	16.05	1.38	0.4635	0.5648	0.7307	1.90	No
		Master's degree	6.30	4.67	5.79	0.50	0.2666	0.3279	0.4226	1.19	No
		Ph.D. degree	1.80	1.40	1.67	0.12	0.1432	0.1763	0.2272	0.54	No
		Imputed value	3.14	5.55	3.88	-0.74	0.2023	0.2175	0.2970	2.50	Yes
		School sector									
		Public	91.95	93.29	92.36	-0.41	0.2849	0.3575	0.4572	0.91	No
		Catholic	4.75	3.13	4.25	0.50	0.1608	0.2125	0.2665	1.87	No
		Other private	3.31	3.58	3.39	-0.08	0.2332	0.2821	0.3660	0.23	No
		School locale									
		Urban	28.33	34.25	30.15	-1.82	0.7480	0.9790	1.2320	1.48	No
		Suburban	52.04	46.26	50.26	1.78	0.7954	1.0375	1.3073	1.36	No
		Rural	19.63	19.49	19.59	0.04	0.6261	0.8479	1.0540	0.04	No
		School region									
		Northeast	19.37	16.67	18.54	0.83	0.6524	0.8690	1.0866	0.76	No
		Midwest	24.72	22.81	24.13	0.59	0.6474	0.8420	1.0621	0.55	No
		South	31.13	41.42	34.30	-3.17	0.6644	0.8354	1.0674	2.97	Yes
		West	24.79	19.10	23.04	1.75	0.8138	1.0381	1.3190	1.33	No
		Reading achievement									
		Low quartile	21.54	32.68	24.97	-3.43	0.7193	0.7498	1.0390	3.30	Yes
		Medium 2 quartiles	49.94	50.06	49.98	-0.03	0.5700	0.6230	0.8444	0.04	No
		High quartile	28.51	17.26	25.05	3.47	0.6232	0.7485	0.9739	3.56	Yes
		Math achievement									
		Low quartile	21.73	32.17	24.95	-3.22	0.7432	0.7699	1.0701	3.00	Yes
		Medium quartile	49.70	50.75	50.03	-0.32	0.5721	0.6684	0.8798	0.36	No
		High quartile	28.56	17.08	25.03	3.54	0.6786	0.8037	1.0519	3.36	Yes
		Home language									
		No (non-English)	12.42	16.09	13.55	-1.13	0.5852	0.7143	0.9234	1.23	No
		Yes (English)	87.22	77.94	84.36	2.86	0.6171	0.7198	0.9481	3.01	Yes
		Imputed value	0.36	5.96	2.08	-1.73	0.1964	0.0798	0.2120	8.14	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS90H	Important to friends to continue education past high school	Sex										
		Male	48.16	55.69	50.43	-2.28	0.5303	0.6664	0.8517	2.67	Yes	
		Female	51.77	44.30	49.52	2.26	0.5307	0.6673	0.8526	2.65	Yes	
		Imputed value	0.07	0.01	0.05	0.02	0.0215	0.0307	0.0375	0.53	No	
		Race/ethnicity										
		American Indian	0.77	1.42	0.96	-0.20	0.1961	0.1817	0.2673	0.74	No	
		Asian	4.03	3.73	3.94	0.09	0.2519	0.2945	0.3875	0.23	No	
		Black	11.38	21.29	14.37	-2.99	0.6567	0.6200	0.9032	3.32	Yes	
		Multiracial	4.20	4.22	4.21	0.00	0.2234	0.2543	0.3385	0.01	No	
		White	65.14	49.02	60.27	4.87	0.9781	1.0678	1.4481	3.36	Yes	
		Hispanic ethnicity	13.83	18.90	15.37	-1.53	0.8554	0.9150	1.2526	1.22	No	
		Imputed value	0.65	1.42	0.88	-0.23	0.1015	0.0993	0.1420	1.63	No	
		Mother's education attainment										
		No High School Diploma	10.94	15.87	12.43	-1.49	0.5097	0.5562	0.7544	1.97	Yes	
		High School Graduate	26.69	26.78	26.72	-0.03	0.4797	0.5509	0.7305	0.04	No	
		2-year school, no degree	12.84	12.05	12.60	0.24	0.3480	0.4222	0.5471	0.44	No	
		2-year school, degree	10.80	10.82	10.80	0.00	0.3301	0.4053	0.5227	0.01	No	
		4-year school, no degree	10.16	9.77	10.04	0.12	0.2824	0.3425	0.4438	0.26	No	
		4-year degree	17.36	13.03	16.05	1.31	0.4635	0.5518	0.7206	1.82	No	
		Master's degree	6.27	4.70	5.79	0.47	0.2666	0.3272	0.4220	1.12	No	
		Ph.D. degree	1.75	1.49	1.67	0.08	0.1432	0.1732	0.2247	0.36	No	
		Imputed value	3.18	5.50	3.88	-0.70	0.2023	0.2167	0.2965	2.36	Yes	
		School sector										
		Public	92.02	93.15	92.36	-0.34	0.2849	0.3601	0.4592	0.74	No	
		Catholic	4.71	3.19	4.25	0.46	0.1608	0.2155	0.2688	1.70	No	
		Other private	3.27	3.66	3.39	-0.12	0.2332	0.2843	0.3677	0.32	No	
		School locale										
		Urban	28.34	34.34	30.15	-1.81	0.7480	0.9732	1.2274	1.48	No	
		Suburban	52.19	45.78	50.26	1.94	0.7954	1.0287	1.3003	1.49	No	
		Rural	19.47	19.88	19.59	-0.12	0.6261	0.8415	1.0489	0.12	No	
		School region										
		Northeast	19.41	16.52	18.54	0.87	0.6524	0.8601	1.0795	0.81	No	
		Midwest	24.75	22.69	24.13	0.62	0.6474	0.8441	1.0638	0.59	No	
		South	31.20	41.46	34.30	-3.10	0.6644	0.8221	1.0570	2.93	Yes	
		West	24.64	19.34	23.04	1.60	0.8138	1.0308	1.3133	1.22	No	
		Reading achievement										
		Low quartile	21.72	32.49	24.97	-3.25	0.7193	0.7508	1.0397	3.13	Yes	
		Medium 2 quartiles	49.84	50.31	49.98	-0.14	0.5700	0.6157	0.8390	0.17	No	
		High quartile	28.44	17.20	25.05	3.40	0.6232	0.7499	0.9751	3.48	Yes	
		Math achievement										
		Low quartile	21.85	32.11	24.95	-3.10	0.7432	0.7760	1.0745	2.89	Yes	
		Medium quartile	49.67	50.84	50.03	-0.35	0.5721	0.6574	0.8715	0.40	No	
		High quartile	28.48	17.05	25.03	3.45	0.6786	0.8082	1.0553	3.27	Yes	
		Home language										
		No (non-English)	12.45	16.10	13.55	-1.10	0.5852	0.7107	0.9206	1.20	No	
		Yes (English)	87.14	77.95	84.36	2.78	0.6171	0.7186	0.9472	2.93	Yes	
		Imputed value	0.41	5.95	2.08	-1.67	0.1964	0.0828	0.2132	7.85	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS90J	Important to friends to do community work	Sex										
		Male	48.09	55.82	50.43	-2.34	0.5303	0.6615	0.8479	2.76	Yes	
		Female	51.83	44.17	49.52	2.32	0.5307	0.6626	0.8489	2.73	Yes	
		Imputed value	0.07	0.01	0.05	0.02	0.0215	0.0308	0.0376	0.53	No	
		Race/ethnicity										
		American Indian	0.78	1.39	0.96	-0.18	0.1961	0.1845	0.2692	0.68	No	
		Asian	4.03	3.73	3.94	0.09	0.2519	0.2860	0.3811	0.23	No	
		Black	11.37	21.29	14.37	-3.00	0.6567	0.6231	0.9053	3.32	Yes	
		Multiracial	4.20	4.23	4.21	-0.01	0.2234	0.2541	0.3384	0.02	No	
		White	65.16	48.99	60.27	4.90	0.9781	1.0763	1.4544	3.37	Yes	
		Hispanic ethnicity	13.80	18.98	15.37	-1.57	0.8554	0.9170	1.2540	1.25	No	
		Imputed value	0.66	1.40	0.88	-0.22	0.1015	0.0991	0.1419	1.57	No	
		Mother's education attainment										
		No High School Diploma	10.97	15.79	12.43	-1.46	0.5097	0.5594	0.7567	1.93	No	
		High School Graduate	26.74	26.66	26.72	0.03	0.4797	0.5520	0.7313	0.04	No	
		2-year school, no degree	12.76	12.23	12.60	0.16	0.3480	0.4203	0.5457	0.29	No	
		2-year school, degree	10.69	11.07	10.80	-0.11	0.3301	0.4012	0.5196	0.22	No	
		4-year school, no degree	10.16	9.75	10.04	0.12	0.2824	0.3455	0.4462	0.28	No	
		4-year degree	17.45	12.84	16.05	1.40	0.4635	0.5607	0.7275	1.92	No	
		Master's degree	6.26	4.72	5.79	0.47	0.2666	0.3273	0.4221	1.11	No	
		Ph.D. degree	1.79	1.40	1.67	0.12	0.1432	0.1799	0.2300	0.51	No	
		Imputed value	3.16	5.54	3.88	-0.72	0.2023	0.2149	0.2951	2.44	Yes	
		School sector										
		Public	92.04	93.09	92.36	-0.32	0.2849	0.3551	0.4553	0.70	No	
		Catholic	4.68	3.25	4.25	0.43	0.1608	0.2115	0.2657	1.63	No	
		Other private	3.27	3.66	3.39	-0.12	0.2332	0.2802	0.3645	0.32	No	
		School locale										
		Urban	28.40	34.19	30.15	-1.75	0.7480	0.9749	1.2288	1.43	No	
		Suburban	52.03	46.18	50.26	1.77	0.7954	1.0310	1.3022	1.36	No	
		Rural	19.57	19.63	19.59	-0.02	0.6261	0.8443	1.0511	0.02	No	
		School region										
		Northeast	19.61	16.06	18.54	1.07	0.6524	0.8768	1.0929	0.98	No	
		Midwest	24.67	22.89	24.13	0.54	0.6474	0.8385	1.0594	0.51	No	
		South	31.09	41.68	34.30	-3.20	0.6644	0.8229	1.0576	3.03	Yes	
		West	24.63	19.37	23.04	1.59	0.8138	1.0290	1.3119	1.21	No	
		Reading achievement										
		Low quartile	21.74	32.43	24.97	-3.24	0.7193	0.7546	1.0425	3.11	Yes	
		Medium 2 quartiles	49.88	50.20	49.98	-0.10	0.5700	0.6155	0.8388	0.11	No	
		High quartile	28.38	17.37	25.05	3.33	0.6232	0.7461	0.9721	3.43	Yes	
		Math achievement										
		Low quartile	21.93	31.91	24.95	-3.02	0.7432	0.7717	1.0714	2.82	Yes	
		Medium quartile	49.59	51.03	50.03	-0.44	0.5721	0.6572	0.8713	0.50	No	
High quartile	28.48	17.06	25.03	3.46	0.6786	0.8066	1.0541	3.28	Yes			
Home language												
No (non-English)	12.46	16.07	13.55	-1.09	0.5852	0.7223	0.9296	1.18	No			
Yes (English)	87.13	77.98	84.36	2.77	0.6171	0.7272	0.9538	2.90	Yes			
Imputed value	0.41	5.95	2.08	-1.68	0.1964	0.0817	0.2128	7.88	Yes			

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS90K	Important to friends to have job	Sex										
		Male	48.01	55.77	50.43	-2.42	0.5303	0.6634	0.8493	2.85	Yes	
		Female	51.92	44.21	49.52	2.41	0.5307	0.6641	0.8501	2.83	Yes	
		Imputed value	0.06	0.03	0.05	0.01	0.0215	0.0265	0.0341	0.34	No	
		Race/ethnicity										
		American Indian	0.76	1.42	0.96	-0.21	0.1961	0.1835	0.2685	0.77	No	
		Asian	3.99	3.82	3.94	0.05	0.2519	0.2886	0.3831	0.14	No	
		Black	11.21	21.36	14.37	-3.17	0.6567	0.6180	0.9018	3.51	Yes	
		Multiracial	4.25	4.11	4.21	0.04	0.2234	0.2588	0.3419	0.13	No	
		White	65.39	48.97	60.27	5.12	0.9781	1.0731	1.4520	3.53	Yes	
		Hispanic ethnicity	13.75	18.93	15.37	-1.62	0.8554	0.9188	1.2553	1.29	No	
		Imputed value	0.65	1.39	0.88	-0.23	0.1015	0.1000	0.1425	1.61	No	
		Mother's education attainment										
		No High School Diploma	10.82	15.99	12.43	-1.61	0.5097	0.5596	0.7569	2.13	Yes	
		High School Graduate	26.69	26.77	26.72	-0.02	0.4797	0.5446	0.7258	0.03	No	
		2-year school, no degree	12.84	12.07	12.60	0.24	0.3480	0.4288	0.5522	0.44	No	
		2-year school, degree	10.79	10.84	10.80	-0.02	0.3301	0.4100	0.5263	0.03	No	
		4-year school, no degree	10.09	9.94	10.04	0.05	0.2824	0.3465	0.4470	0.10	No	
		4-year degree	17.49	12.89	16.05	1.44	0.4635	0.5630	0.7293	1.97	Yes	
		Master's degree	6.31	4.66	5.79	0.51	0.2666	0.3303	0.4245	1.21	No	
		Ph.D. degree	1.79	1.41	1.67	0.12	0.1432	0.1774	0.2280	0.53	No	
		Imputed value	3.18	5.43	3.88	-0.70	0.2023	0.2181	0.2975	2.36	Yes	
		School sector										
		Public	92.03	93.10	92.36	-0.34	0.2849	0.3608	0.4597	0.73	No	
		Catholic	4.70	3.24	4.25	0.46	0.1608	0.2166	0.2698	1.69	No	
		Other private	3.27	3.66	3.39	-0.12	0.2332	0.2831	0.3668	0.33	No	
		School locale										
		Urban	28.32	34.20	30.15	-1.84	0.7480	0.9868	1.2383	1.48	No	
		Suburban	52.03	46.36	50.26	1.77	0.7954	1.0488	1.3163	1.34	No	
		Rural	19.66	19.44	19.59	0.07	0.6261	0.8554	1.0600	0.06	No	
		School region										
		Northeast	19.55	16.31	18.54	1.01	0.6524	0.8895	1.1031	0.92	No	
		Midwest	24.76	22.73	24.13	0.63	0.6474	0.8548	1.0723	0.59	No	
		South	30.92	41.75	34.30	-3.38	0.6644	0.8386	1.0699	3.16	Yes	
		West	24.77	19.21	23.04	1.73	0.8138	1.0460	1.3253	1.31	No	
		Reading achievement										
		Low quartile	21.60	32.41	24.97	-3.37	0.7193	0.7500	1.0391	3.25	Yes	
		Medium 2 quartiles	49.88	50.20	49.98	-0.10	0.5700	0.6214	0.8432	0.12	No	
		High quartile	28.52	17.39	25.05	3.47	0.6232	0.7525	0.9771	3.55	Yes	
		Math achievement										
		Low quartile	21.75	32.01	24.95	-3.20	0.7432	0.7762	1.0746	2.98	Yes	
		Medium quartile	49.58	51.00	50.03	-0.44	0.5721	0.6634	0.8760	0.50	No	
		High quartile	28.67	17.00	25.03	3.64	0.6786	0.8156	1.0609	3.43	Yes	
		Home language										
		No (non-English)	12.37	16.15	13.55	-1.18	0.5852	0.7194	0.9273	1.27	No	
		Yes (English)	87.28	77.93	84.36	2.92	0.6171	0.7247	0.9518	3.07	Yes	
		Imputed value	0.34	5.93	2.08	-1.74	0.1964	0.0784	0.2115	8.23	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS90L	Important to friends to get together with friends	Sex									
		Male	48.05	55.90	50.43	-2.38	0.5303	0.6635	0.8494	2.80	Yes
		Female	51.88	44.10	49.52	2.36	0.5307	0.6644	0.8503	2.78	Yes
		Imputed value	0.07	0.01	0.05	0.02	0.0215	0.0308	0.0376	0.53	No
		Race/ethnicity									
		American Indian	0.79	1.36	0.96	-0.17	0.1961	0.1845	0.2692	0.63	No
		Asian	4.01	3.76	3.94	0.08	0.2519	0.2842	0.3798	0.20	No
		Black	11.44	21.11	14.37	-2.93	0.6567	0.6166	0.9008	3.26	Yes
		Multiracial	4.22	4.18	4.21	0.01	0.2234	0.2570	0.3405	0.03	No
		White	65.07	49.26	60.27	4.80	0.9781	1.0764	1.4544	3.30	Yes
		Hispanic ethnicity	13.79	18.98	15.37	-1.57	0.8554	0.9250	1.2599	1.25	No
		Imputed value	0.68	1.36	0.88	-0.21	0.1015	0.1011	0.1432	1.44	No
		Mother's education attainment									
		No High School Diploma	10.97	15.79	12.43	-1.46	0.5097	0.5613	0.7582	1.93	No
		High School Graduate	26.68	26.81	26.72	-0.04	0.4797	0.5518	0.7312	0.05	No
		2-year school, no degree	12.73	12.32	12.60	0.12	0.3480	0.4231	0.5478	0.22	No
		2-year school, degree	10.73	10.98	10.80	-0.08	0.3301	0.4083	0.5251	0.14	No
		4-year school, no degree	10.16	9.76	10.04	0.12	0.2824	0.3476	0.4478	0.27	No
		4-year degree	17.44	12.89	16.05	1.38	0.4635	0.5576	0.7251	1.90	No
		Master's degree	6.29	4.66	5.79	0.50	0.2666	0.3273	0.4221	1.18	No
		Ph.D. degree	1.81	1.37	1.67	0.13	0.1432	0.1799	0.2300	0.57	No
		Imputed value	3.21	5.43	3.88	-0.67	0.2023	0.2139	0.2944	2.28	Yes
		School sector									
		Public	92.06	93.04	92.36	-0.30	0.2849	0.3507	0.4519	0.66	No
		Catholic	4.67	3.29	4.25	0.42	0.1608	0.2112	0.2655	1.57	No
		Other private	3.27	3.66	3.39	-0.12	0.2332	0.2745	0.3602	0.33	No
		School locale									
		Urban	28.40	34.18	30.15	-1.75	0.7480	0.9727	1.2270	1.43	No
		Suburban	52.09	46.05	50.26	1.83	0.7954	1.0268	1.2989	1.41	No
		Rural	19.51	19.77	19.59	-0.08	0.6261	0.8436	1.0506	0.07	No
		School region									
		Northeast	19.56	16.19	18.54	1.02	0.6524	0.8497	1.0712	0.95	No
		Midwest	24.73	22.75	24.13	0.60	0.6474	0.8433	1.0632	0.56	No
		South	31.09	41.67	34.30	-3.21	0.6644	0.8207	1.0559	3.04	Yes
		West	24.63	19.39	23.04	1.59	0.8138	1.0317	1.3140	1.21	No
		Reading achievement									
		Low quartile	21.80	32.26	24.97	-3.17	0.7193	0.7623	1.0481	3.03	Yes
		Medium 2 quartiles	49.75	50.51	49.98	-0.23	0.5700	0.6219	0.8436	0.27	No
		High quartile	28.45	17.23	25.05	3.41	0.6232	0.7466	0.9725	3.50	Yes
		Math achievement									
		Low quartile	21.97	31.78	24.95	-2.98	0.7432	0.7750	1.0737	2.77	Yes
		Medium quartile	49.48	51.28	50.03	-0.55	0.5721	0.6666	0.8785	0.62	No
		High quartile	28.55	16.94	25.03	3.52	0.6786	0.8090	1.0559	3.34	Yes
		Home language									
		No (non-English)	12.47	16.03	13.55	-1.08	0.5852	0.7245	0.9313	1.16	No
		Yes (English)	87.09	78.12	84.36	2.72	0.6171	0.7300	0.9559	2.85	Yes
		Imputed value	0.44	5.86	2.08	-1.64	0.1964	0.0840	0.2136	7.70	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS90M	Important to friends to go to parties	Sex										
		Male	48.04	55.64	50.43	-2.39	0.5303	0.6630	0.8490	2.81	Yes	
		Female	51.89	44.34	49.52	2.38	0.5307	0.6635	0.8496	2.80	Yes	
		Imputed value	0.06	0.03	0.05	0.01	0.0215	0.0266	0.0342	0.35	No	
		Race/ethnicity										
		American Indian	0.75	1.43	0.96	-0.21	0.1961	0.1772	0.2643	0.80	No	
		Asian	4.00	3.80	3.94	0.06	0.2519	0.2920	0.3856	0.16	No	
		Black	11.24	21.21	14.37	-3.14	0.6567	0.6217	0.9044	3.47	Yes	
		Multiracial	4.23	4.17	4.21	0.02	0.2234	0.2595	0.3424	0.05	No	
		White	65.44	48.99	60.27	5.18	0.9781	1.0743	1.4529	3.56	Yes	
		Hispanic ethnicity	13.66	19.07	15.37	-1.70	0.8554	0.9265	1.2610	1.35	No	
		Imputed value	0.68	1.33	0.88	-0.21	0.1015	0.1022	0.1441	1.44	No	
		Mother's education attainment										
		No High School Diploma	10.83	15.92	12.43	-1.60	0.5097	0.5657	0.7614	2.10	Yes	
		High School Graduate	26.63	26.91	26.72	-0.09	0.4797	0.5442	0.7255	0.12	No	
		2-year school, no degree	12.82	12.13	12.60	0.21	0.3480	0.4360	0.5578	0.38	No	
		2-year school, degree	10.81	10.79	10.80	0.01	0.3301	0.4101	0.5265	0.01	No	
		4-year school, no degree	10.13	9.85	10.04	0.09	0.2824	0.3390	0.4412	0.20	No	
		4-year degree	17.51	12.88	16.05	1.46	0.4635	0.5613	0.7280	2.00	Yes	
		Master's degree	6.31	4.67	5.79	0.52	0.2666	0.3310	0.4250	1.21	No	
		Ph.D. degree	1.82	1.35	1.67	0.15	0.1432	0.1809	0.2307	0.65	No	
		Imputed value	3.14	5.50	3.88	-0.74	0.2023	0.2127	0.2935	2.53	Yes	
		School sector										
		Public	92.02	93.10	92.36	-0.34	0.2849	0.3632	0.4617	0.74	No	
		Catholic	4.70	3.26	4.25	0.45	0.1608	0.2180	0.2709	1.68	No	
		Other private	3.28	3.64	3.39	-0.11	0.2332	0.2853	0.3685	0.31	No	
		School locale										
		Urban	28.24	34.32	30.15	-1.91	0.7480	0.9967	1.2461	1.53	No	
		Suburban	52.13	46.17	50.26	1.88	0.7954	1.0539	1.3204	1.42	No	
		Rural	19.63	19.51	19.59	0.04	0.6261	0.8516	1.0570	0.03	No	
		School region										
		Northeast	19.53	16.36	18.54	1.00	0.6524	0.8862	1.1005	0.91	No	
		Midwest	24.78	22.70	24.13	0.65	0.6474	0.8530	1.0709	0.61	No	
		South	30.93	41.63	34.30	-3.37	0.6644	0.8482	1.0775	3.12	Yes	
		West	24.75	19.31	23.04	1.71	0.8138	1.0545	1.3320	1.29	No	
		Reading achievement										
		Low quartile	21.62	32.28	24.97	-3.36	0.7193	0.7500	1.0391	3.23	Yes	
		Medium 2 quartiles	49.79	50.38	49.98	-0.19	0.5700	0.6211	0.8430	0.22	No	
		High quartile	28.59	17.33	25.05	3.54	0.6232	0.7522	0.9768	3.63	Yes	
		Math achievement										
		Low quartile	21.73	31.97	24.95	-3.22	0.7432	0.7709	1.0708	3.01	Yes	
		Medium quartile	49.65	50.85	50.03	-0.38	0.5721	0.6606	0.8739	0.43	No	
		High quartile	28.63	17.19	25.03	3.60	0.6786	0.8143	1.0600	3.40	Yes	
		Home language										
		No (non-English)	12.36	16.14	13.55	-1.19	0.5852	0.7277	0.9338	1.27	No	
		Yes (English)	87.30	77.97	84.36	2.93	0.6171	0.7343	0.9592	3.06	Yes	
		Imputed value	0.34	5.89	2.08	-1.75	0.1964	0.0785	0.2116	8.25	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS90Q	Important to friends to make money	Sex										
		Male	48.12	55.41	50.43	-2.32	0.5303	0.6714	0.8556	2.71	Yes	
		Female	51.82	44.56	49.52	2.30	0.5307	0.6724	0.8566	2.69	Yes	
		Imputed value	0.07	0.03	0.05	0.01	0.0215	0.0302	0.0371	0.35	No	
		Race/ethnicity										
		American Indian	0.77	1.38	0.96	-0.19	0.1961	0.1867	0.2708	0.71	No	
		Asian	4.03	3.75	3.94	0.09	0.2519	0.2954	0.3883	0.22	No	
		Black	11.12	21.38	14.37	-3.26	0.6567	0.6238	0.9058	3.60	Yes	
		Multiracial	4.19	4.24	4.21	-0.01	0.2234	0.2580	0.3413	0.04	No	
		White	65.55	48.90	60.27	5.28	0.9781	1.0801	1.4572	3.62	Yes	
		Hispanic ethnicity	13.67	19.01	15.37	-1.69	0.8554	0.9287	1.2626	1.34	No	
		Imputed value	0.67	1.34	0.88	-0.21	0.1015	0.1021	0.1440	1.48	No	
		Mother's education attainment										
		No High School Diploma	10.81	15.92	12.43	-1.62	0.5097	0.5659	0.7616	2.13	Yes	
		High School Graduate	26.84	26.46	26.72	0.12	0.4797	0.5446	0.7258	0.16	No	
		2-year school, no degree	12.75	12.29	12.60	0.15	0.3480	0.4302	0.5533	0.26	No	
		2-year school, degree	10.76	10.90	10.80	-0.04	0.3301	0.4103	0.5266	0.08	No	
		4-year school, no degree	10.07	9.97	10.04	0.03	0.2824	0.3472	0.4475	0.07	No	
		4-year degree	17.46	13.03	16.05	1.40	0.4635	0.5657	0.7314	1.92	No	
		Master's degree	6.31	4.69	5.79	0.51	0.2666	0.3324	0.4261	1.20	No	
		Ph.D. degree	1.81	1.39	1.67	0.13	0.1432	0.1784	0.2288	0.58	No	
		Imputed value	3.21	5.34	3.88	-0.68	0.2023	0.2187	0.2979	2.28	Yes	
		School sector										
		Public	92.07	92.98	92.36	-0.29	0.2849	0.3567	0.4566	0.63	No	
		Catholic	4.69	3.30	4.25	0.44	0.1608	0.2157	0.2690	1.65	No	
		Other private	3.23	3.72	3.39	-0.16	0.2332	0.2777	0.3627	0.43	No	
		School locale										
		Urban	28.14	34.49	30.15	-2.02	0.7480	1.0013	1.2499	1.61	No	
		Suburban	52.21	46.05	50.26	1.96	0.7954	1.0623	1.3271	1.47	No	
		Rural	19.65	19.46	19.59	0.06	0.6261	0.8631	1.0662	0.05	No	
		School region										
		Northeast	19.47	16.52	18.54	0.94	0.6524	0.8930	1.1059	0.85	No	
		Midwest	24.81	22.66	24.13	0.68	0.6474	0.8643	1.0799	0.63	No	
		South	30.73	41.97	34.30	-3.56	0.6644	0.8493	1.0783	3.31	Yes	
		West	24.98	18.86	23.04	1.94	0.8138	1.0626	1.3384	1.45	No	
		Reading achievement										
		Low quartile	21.73	31.96	24.97	-3.25	0.7193	0.7557	1.0433	3.11	Yes	
		Medium 2 quartiles	49.70	50.58	49.98	-0.28	0.5700	0.6239	0.8450	0.33	No	
		High quartile	28.57	17.46	25.05	3.53	0.6232	0.7564	0.9800	3.60	Yes	
		Math achievement										
		Low quartile	21.77	31.80	24.95	-3.18	0.7432	0.7746	1.0735	2.96	Yes	
		Medium quartile	49.48	51.20	50.03	-0.54	0.5721	0.6761	0.8857	0.62	No	
		High quartile	28.75	17.01	25.03	3.73	0.6786	0.8227	1.0665	3.49	Yes	
		Home language										
		No (non-English)	12.33	16.18	13.55	-1.22	0.5852	0.7378	0.9417	1.30	No	
		Yes (English)	87.31	78.03	84.36	2.94	0.6171	0.7439	0.9666	3.04	Yes	
		Imputed value	0.36	5.79	2.08	-1.72	0.1964	0.0808	0.2124	8.10	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS91	Number of close friends who dropped out	Sex									
		Male	47.69	55.95	50.43	-2.75	0.5303	0.6687	0.8535	3.22	Yes
		Female	52.24	44.04	49.52	2.73	0.5307	0.6694	0.8542	3.19	Yes
		Imputed value	0.07	0.01	0.05	0.02	0.0215	0.0319	0.0385	0.49	No
		Race/ethnicity									
		American Indian	0.80	1.29	0.96	-0.16	0.1961	0.1987	0.2791	0.57	No
		Asian	3.98	3.84	3.94	0.05	0.2519	0.3000	0.3917	0.12	No
		Black	11.10	20.95	14.37	-3.27	0.6567	0.6276	0.9084	3.60	Yes
		Multiracial	4.28	4.07	4.21	0.07	0.2234	0.2685	0.3493	0.19	No
		White	65.71	49.34	60.27	5.44	0.9781	1.0865	1.4619	3.72	Yes
		Hispanic ethnicity	13.48	19.16	15.37	-1.89	0.8554	0.9192	1.2556	1.50	No
		Imputed value	0.65	1.35	0.88	-0.23	0.1015	0.0929	0.1376	1.70	No
		Mother's education attainment									
		No High School Diploma	10.75	15.82	12.43	-1.68	0.5097	0.5645	0.7605	2.21	Yes
		High School Graduate	26.66	26.83	26.72	-0.06	0.4797	0.5507	0.7304	0.08	No
		2-year school, no degree	12.78	12.24	12.60	0.18	0.3480	0.4391	0.5602	0.32	No
		2-year school, degree	10.87	10.67	10.80	0.07	0.3301	0.4132	0.5289	0.13	No
		4-year school, no degree	10.15	9.82	10.04	0.11	0.2824	0.3548	0.4534	0.24	No
		4-year degree	17.52	13.11	16.05	1.46	0.4635	0.5672	0.7325	2.00	Yes
		Master's degree	6.36	4.66	5.79	0.57	0.2666	0.3342	0.4275	1.33	No
		Ph.D. degree	1.83	1.36	1.67	0.16	0.1432	0.1803	0.2302	0.68	No
		Imputed value	3.08	5.50	3.88	-0.80	0.2023	0.2120	0.2930	2.74	Yes
		School sector									
		Public	91.92	93.24	92.36	-0.44	0.2849	0.3653	0.4633	0.94	No
		Catholic	4.76	3.23	4.25	0.51	0.1608	0.2180	0.2709	1.87	No
		Other private	3.32	3.53	3.39	-0.07	0.2332	0.2866	0.3695	0.19	No
		School locale									
		Urban	28.35	33.78	30.15	-1.81	0.7480	0.9989	1.2479	1.45	No
		Suburban	51.96	46.84	50.26	1.70	0.7954	1.0728	1.3355	1.27	No
		Rural	19.69	19.38	19.59	0.10	0.6261	0.8781	1.0784	0.10	No
		School region									
		Northeast	19.67	16.26	18.54	1.13	0.6524	0.9100	1.1197	1.01	No
		Midwest	24.69	23.00	24.13	0.56	0.6474	0.8827	1.0947	0.51	No
		South	30.86	41.20	34.30	-3.44	0.6644	0.8673	1.0925	3.15	Yes
		West	24.78	19.53	23.04	1.74	0.8138	1.0552	1.3325	1.31	No
		Reading achievement									
		Low quartile	20.81	33.35	24.97	-4.17	0.7193	0.7522	1.0407	4.00	Yes
		Medium 2 quartiles	50.08	49.77	49.98	0.10	0.5700	0.6281	0.8481	0.12	No
		High quartile	29.11	16.88	25.05	4.06	0.6232	0.7553	0.9792	4.15	Yes
		Math achievement									
		Low quartile	20.88	33.12	24.95	-4.07	0.7432	0.7487	1.0549	3.86	Yes
		Medium quartile	49.93	50.22	50.03	-0.10	0.5721	0.6775	0.8867	0.11	No
		High quartile	29.19	16.66	25.03	4.16	0.6786	0.8211	1.0652	3.91	Yes
		Home language									
		No (non-English)	11.97	16.72	13.55	-1.58	0.5852	0.6835	0.8998	1.75	No
		Yes (English)	87.71	77.64	84.36	3.35	0.6171	0.6893	0.9252	3.62	Yes
		Imputed value	0.32	5.64	2.08	-1.77	0.1964	0.0726	0.2094	8.44	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS92A	Girls should have same opportunities in sports	Sex										
		Male	48.13	55.16	50.43	-2.31	0.5303	0.6744	0.8579	2.69	Yes	
		Female	51.80	44.83	49.52	2.28	0.5307	0.6751	0.8587	2.66	Yes	
			Imputed value	0.08	0.01	0.05	0.02	0.0215	0.0319	0.0385	0.59	No
			Race/ethnicity									
			American Indian	0.77	1.37	0.96	-0.20	0.1961	0.1964	0.2775	0.71	No
			Asian	3.99	3.84	3.94	0.05	0.2519	0.3007	0.3923	0.12	No
			Black	11.12	21.05	14.37	-3.25	0.6567	0.6384	0.9159	3.55	Yes
			Multiracial	4.30	4.03	4.21	0.09	0.2234	0.2614	0.3439	0.26	No
			White	65.38	49.77	60.27	5.11	0.9781	1.0974	1.4701	3.48	Yes
			Hispanic ethnicity	13.78	18.63	15.37	-1.59	0.8554	0.9339	1.2664	1.26	No
			Imputed value	0.67	1.32	0.88	-0.21	0.1015	0.1034	0.1449	1.45	No
			Mother's education attainment									
			No High School Diploma	10.85	15.67	12.43	-1.58	0.5097	0.5735	0.7672	2.06	Yes
			High School Graduate	26.63	26.90	26.72	-0.09	0.4797	0.5458	0.7267	0.13	No
			2-year school, no degree	12.84	12.11	12.60	0.24	0.3480	0.4371	0.5587	0.43	No
			2-year school, degree	10.82	10.78	10.80	0.01	0.3301	0.4072	0.5242	0.02	No
			4-year school, no degree	10.07	9.97	10.04	0.03	0.2824	0.3532	0.4521	0.07	No
			4-year degree	17.48	13.13	16.05	1.42	0.4635	0.5654	0.7311	1.95	No
			Master's degree	6.33	4.70	5.79	0.53	0.2666	0.3337	0.4272	1.25	No
			Ph.D. degree	1.82	1.37	1.67	0.15	0.1432	0.1800	0.2301	0.64	No
			Imputed value	3.17	5.35	3.88	-0.71	0.2023	0.2189	0.2981	2.39	Yes
			School sector									
			Public	91.96	93.18	92.36	-0.40	0.2849	0.3641	0.4623	0.86	No
			Catholic	4.74	3.25	4.25	0.49	0.1608	0.2181	0.2710	1.79	No
			Other private	3.30	3.57	3.39	-0.09	0.2332	0.2850	0.3683	0.24	No
			School locale									
			Urban	28.30	33.95	30.15	-1.85	0.7480	1.0065	1.2540	1.48	No
			Suburban	52.09	46.50	50.26	1.83	0.7954	1.0725	1.3353	1.37	No
			Rural	19.61	19.55	19.59	0.02	0.6261	0.8718	1.0733	0.02	No
			School region									
			Northeast	19.49	16.58	18.54	0.95	0.6524	0.9039	1.1147	0.86	No
			Midwest	24.61	23.13	24.13	0.48	0.6474	0.8845	1.0961	0.44	No
			South	30.87	41.33	34.30	-3.42	0.6644	0.8628	1.0890	3.14	Yes
			West	25.02	18.96	23.04	1.99	0.8138	1.0589	1.3355	1.49	No
			Reading achievement									
			Low quartile	21.60	31.91	24.97	-3.38	0.7193	0.7650	1.0500	3.22	Yes
			Medium 2 quartiles	49.60	50.76	49.98	-0.38	0.5700	0.6334	0.8521	0.45	No
			High quartile	28.81	17.33	25.05	3.76	0.6232	0.7618	0.9842	3.82	Yes
			Math achievement									
			Low quartile	21.72	31.57	24.95	-3.23	0.7432	0.7957	1.0888	2.96	Yes
			Medium quartile	49.42	51.26	50.03	-0.60	0.5721	0.6832	0.8911	0.68	No
			High quartile	28.86	17.16	25.03	3.83	0.6786	0.8307	1.0726	3.57	Yes
			Home language									
			No (non-English)	12.43	15.85	13.55	-1.12	0.5852	0.7174	0.9258	1.21	No
			Yes (English)	87.29	78.35	84.36	2.93	0.6171	0.7227	0.9503	3.08	Yes
			Imputed value	0.27	5.80	2.08	-1.81	0.1964	0.0611	0.2057	8.80	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS92B	Some sports should be just for boys	Sex										
		Male	48.27	54.95	50.43	-2.17	0.5303	0.6693	0.8540	2.54	Yes	
		Female	51.66	45.04	49.52	2.14	0.5307	0.6700	0.8547	2.51	Yes	
		Imputed value	0.08	0.01	0.05	0.02	0.0215	0.0317	0.0384	0.58	No	
		Race/ethnicity										
		American Indian	0.76	1.38	0.96	-0.20	0.1961	0.1953	0.2767	0.73	No	
		Asian	4.01	3.80	3.94	0.07	0.2519	0.2982	0.3904	0.17	No	
		Black	11.22	20.95	14.37	-3.15	0.6567	0.6271	0.9081	3.47	Yes	
		Multiracial	4.26	4.09	4.21	0.05	0.2234	0.2591	0.3421	0.16	No	
		White	65.25	49.87	60.27	4.98	0.9781	1.0944	1.4678	3.40	Yes	
		Hispanic ethnicity	13.83	18.56	15.37	-1.53	0.8554	0.9296	1.2633	1.21	No	
		Imputed value	0.66	1.35	0.88	-0.22	0.1015	0.1018	0.1438	1.54	No	
		Mother's education attainment										
		No High School Diploma	10.88	15.66	12.43	-1.55	0.5097	0.5667	0.7621	2.03	Yes	
		High School Graduate	26.59	26.97	26.72	-0.12	0.4797	0.5495	0.7295	0.17	No	
		2-year school, no degree	12.81	12.16	12.60	0.21	0.3480	0.4269	0.5508	0.39	No	
		2-year school, degree	10.90	10.61	10.80	0.09	0.3301	0.4071	0.5242	0.18	No	
		4-year school, no degree	10.06	10.01	10.04	0.02	0.2824	0.3475	0.4477	0.04	No	
		4-year degree	17.43	13.19	16.05	1.37	0.4635	0.5653	0.7310	1.88	No	
		Master's degree	6.29	4.77	5.79	0.49	0.2666	0.3334	0.4269	1.15	No	
		Ph.D. degree	1.84	1.33	1.67	0.16	0.1432	0.1794	0.2295	0.71	No	
		Imputed value	3.21	5.29	3.88	-0.67	0.2023	0.2179	0.2973	2.27	Yes	
		School sector										
		Public	91.98	93.15	92.36	-0.38	0.2849	0.3623	0.4609	0.82	No	
		Catholic	4.71	3.29	4.25	0.46	0.1608	0.2146	0.2681	1.71	No	
		Other private	3.31	3.56	3.39	-0.08	0.2332	0.2863	0.3693	0.21	No	
		School locale										
		Urban	28.39	33.82	30.15	-1.76	0.7480	0.9975	1.2468	1.41	No	
		Suburban	52.12	46.37	50.26	1.86	0.7954	1.0547	1.3210	1.41	No	
		Rural	19.49	19.81	19.59	-0.10	0.6261	0.8614	1.0649	0.10	No	
		School region										
		Northeast	19.46	16.60	18.54	0.93	0.6524	0.8784	1.0942	0.85	No	
		Midwest	24.63	23.08	24.13	0.50	0.6474	0.8713	1.0855	0.46	No	
		South	30.98	41.23	34.30	-3.32	0.6644	0.8488	1.0779	3.08	Yes	
		West	24.93	19.09	23.04	1.89	0.8138	1.0448	1.3243	1.43	No	
		Reading achievement										
		Low quartile	21.68	31.84	24.97	-3.29	0.7193	0.7637	1.0491	3.14	Yes	
		Medium 2 quartiles	49.52	50.93	49.98	-0.46	0.5700	0.6369	0.8547	0.54	No	
		High quartile	28.80	17.23	25.05	3.75	0.6232	0.7607	0.9834	3.81	Yes	
		Math achievement										
		Low quartile	21.83	31.45	24.95	-3.12	0.7432	0.7779	1.0758	2.90	Yes	
		Medium quartile	49.34	51.46	50.03	-0.69	0.5721	0.6755	0.8852	0.78	No	
		High quartile	28.83	17.09	25.03	3.80	0.6786	0.8239	1.0673	3.56	Yes	
		Home language										
		No (non-English)	12.44	15.87	13.55	-1.11	0.5852	0.7094	0.9196	1.21	No	
		Yes (English)	87.17	78.51	84.36	2.80	0.6171	0.7165	0.9456	2.97	Yes	
		Imputed value	0.39	5.62	2.08	-1.70	0.1964	0.0792	0.2118	8.01	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS92C	Girls should have own sports teams	Sex									
		Male	48.11	54.99	50.43	-2.32	0.5303	0.6833	0.8650	2.68	Yes
		Female	51.81	45.01	49.52	2.29	0.5307	0.6839	0.8657	2.65	Yes
		Imputed value	0.08	0.01	0.05	0.02	0.0215	0.0324	0.0389	0.61	No
		Race/ethnicity									
		American Indian	0.78	1.33	0.96	-0.19	0.1961	0.1992	0.2795	0.67	No
		Asian	3.99	3.83	3.94	0.05	0.2519	0.2994	0.3913	0.14	No
		Black	11.10	20.81	14.37	-3.27	0.6567	0.6405	0.9173	3.57	Yes
		Multiracial	4.28	4.07	4.21	0.07	0.2234	0.2645	0.3462	0.21	No
		White	65.46	50.05	60.27	5.20	0.9781	1.0989	1.4712	3.53	Yes
		Hispanic ethnicity	13.72	18.59	15.37	-1.64	0.8554	0.9366	1.2684	1.30	No
		Imputed value	0.66	1.32	0.88	-0.22	0.1015	0.1033	0.1448	1.53	No
		Mother's education attainment									
		No High School Diploma	10.76	15.72	12.43	-1.68	0.5097	0.5691	0.7640	2.19	Yes
		High School Graduate	26.58	26.99	26.72	-0.14	0.4797	0.5484	0.7286	0.19	No
		2-year school, no degree	12.77	12.28	12.60	0.16	0.3480	0.4340	0.5563	0.30	No
		2-year school, degree	10.87	10.68	10.80	0.06	0.3301	0.4114	0.5275	0.12	No
		4-year school, no degree	10.14	9.85	10.04	0.10	0.2824	0.3537	0.4526	0.22	No
		4-year degree	17.54	13.14	16.05	1.48	0.4635	0.5706	0.7352	2.02	Yes
		Master's degree	6.35	4.71	5.79	0.55	0.2666	0.3351	0.4282	1.29	No
		Ph.D. degree	1.84	1.35	1.67	0.16	0.1432	0.1804	0.2303	0.71	No
		Imputed value	3.17	5.28	3.88	-0.71	0.2023	0.2180	0.2974	2.38	Yes
		School sector									
		Public	91.98	93.11	92.36	-0.38	0.2849	0.3662	0.4640	0.82	No
		Catholic	4.72	3.31	4.25	0.48	0.1608	0.2202	0.2727	1.74	No
		Other private	3.30	3.58	3.39	-0.09	0.2332	0.2860	0.3690	0.26	No
		School locale									
		Urban	28.34	33.71	30.15	-1.81	0.7480	1.0143	1.2603	1.43	No
		Suburban	52.07	46.70	50.26	1.81	0.7954	1.0806	1.3418	1.35	No
		Rural	19.59	19.59	19.59	0.00	0.6261	0.8810	1.0808	0.00	No
		School region									
		Northeast	19.52	16.60	18.54	0.98	0.6524	0.9143	1.1232	0.88	No
		Midwest	24.60	23.20	24.13	0.47	0.6474	0.8921	1.1023	0.43	No
		South	30.75	41.27	34.30	-3.55	0.6644	0.8682	1.0932	3.24	Yes
		West	25.13	18.93	23.04	2.09	0.8138	1.0637	1.3393	1.56	No
		Reading achievement									
		Low quartile	21.51	31.78	24.97	-3.46	0.7193	0.7692	1.0531	3.29	Yes
		Medium 2 quartiles	49.61	50.70	49.98	-0.37	0.5700	0.6373	0.8550	0.43	No
		High quartile	28.88	17.52	25.05	3.83	0.6232	0.7621	0.9845	3.89	Yes
		Math achievement									
		Low quartile	21.67	31.39	24.95	-3.28	0.7432	0.7896	1.0844	3.02	Yes
		Medium quartile	49.41	51.24	50.03	-0.62	0.5721	0.6842	0.8918	0.69	No
		High quartile	28.92	17.37	25.03	3.90	0.6786	0.8361	1.0768	3.62	Yes
		Home language									
		No (non-English)	12.36	15.90	13.55	-1.20	0.5852	0.7106	0.9205	1.30	No
		Yes (English)	87.37	78.46	84.36	3.00	0.6171	0.7156	0.9449	3.18	Yes
		Imputed value	0.28	5.64	2.08	-1.81	0.1964	0.0620	0.2060	8.77	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS92D	Girls should be on same sports teams as boys	Sex										
		Male	48.06	55.37	50.43	-2.37	0.5303	0.6733	0.8571	2.76	Yes	
		Female	51.86	44.63	49.52	2.35	0.5307	0.6741	0.8579	2.74	Yes	
			Imputed value	0.08	0.01	0.05	0.02	0.0215	0.0318	0.0384	0.58	No
			Race/ethnicity									
			American Indian	0.78	1.34	0.96	-0.18	0.1961	0.2002	0.2802	0.65	No
			Asian	3.98	3.84	3.94	0.05	0.2519	0.3030	0.3940	0.12	No
			Black	11.24	20.92	14.37	-3.14	0.6567	0.6460	0.9212	3.41	Yes
			Multiracial	4.27	4.08	4.21	0.06	0.2234	0.2535	0.3380	0.18	No
			White	65.19	50.00	60.27	4.92	0.9781	1.0993	1.4715	3.35	Yes
			Hispanic ethnicity	13.86	18.49	15.37	-1.50	0.8554	0.9341	1.2666	1.19	No
			Imputed value	0.67	1.32	0.88	-0.21	0.1015	0.1020	0.1439	1.47	No
			Mother's education attainment									
			No High School Diploma	11.00	15.41	12.43	-1.43	0.5097	0.5756	0.7688	1.86	No
			High School Graduate	26.52	27.13	26.72	-0.20	0.4797	0.5561	0.7344	0.27	No
			2-year school, no degree	12.69	12.42	12.60	0.09	0.3480	0.4254	0.5496	0.16	No
			2-year school, degree	10.90	10.60	10.80	0.10	0.3301	0.4073	0.5243	0.19	No
			4-year school, no degree	10.17	9.77	10.04	0.13	0.2824	0.3557	0.4541	0.28	No
			4-year degree	17.38	13.29	16.05	1.33	0.4635	0.5672	0.7325	1.81	No
			Master's degree	6.35	4.64	5.79	0.55	0.2666	0.3321	0.4258	1.30	No
			Ph.D. degree	1.82	1.38	1.67	0.14	0.1432	0.1780	0.2284	0.63	No
			Imputed value	3.17	5.36	3.88	-0.71	0.2023	0.2145	0.2949	2.41	Yes
			School sector									
			Public	91.99	93.13	92.36	-0.37	0.2849	0.3615	0.4603	0.80	No
			Catholic	4.68	3.36	4.25	0.43	0.1608	0.2108	0.2651	1.61	No
			Other private	3.33	3.51	3.39	-0.06	0.2332	0.2877	0.3703	0.15	No
			School locale									
			Urban	28.41	33.79	30.15	-1.75	0.7480	1.0088	1.2558	1.39	No
			Suburban	52.06	46.51	50.26	1.80	0.7954	1.0632	1.3278	1.35	No
			Rural	19.54	19.70	19.59	-0.05	0.6261	0.8647	1.0676	0.05	No
			School region									
			Northeast	19.59	16.34	18.54	1.06	0.6524	0.8842	1.0988	0.96	No
			Midwest	24.68	22.98	24.13	0.55	0.6474	0.8771	1.0902	0.51	No
			South	30.85	41.49	34.30	-3.45	0.6644	0.8551	1.0829	3.19	Yes
			West	24.88	19.19	23.04	1.84	0.8138	1.0552	1.3326	1.38	No
			Reading achievement									
			Low quartile	21.59	32.03	24.97	-3.38	0.7193	0.7646	1.0497	3.22	Yes
			Medium 2 quartiles	49.58	50.80	49.98	-0.40	0.5700	0.6262	0.8468	0.47	No
			High quartile	28.83	17.17	25.05	3.78	0.6232	0.7616	0.9841	3.84	Yes
			Math achievement									
			Low quartile	21.75	31.61	24.95	-3.20	0.7432	0.7957	1.0888	2.94	Yes
			Medium quartile	49.45	51.22	50.03	-0.57	0.5721	0.6785	0.8875	0.65	No
			High quartile	28.80	17.17	25.03	3.77	0.6786	0.8308	1.0727	3.52	Yes
			Home language									
			No (non-English)	12.59	15.55	13.55	-0.96	0.5852	0.7333	0.9381	1.02	No
			Yes (English)	87.06	78.74	84.36	2.70	0.6171	0.7392	0.9630	2.80	Yes
			Imputed value	0.34	5.71	2.08	-1.74	0.1964	0.0743	0.2100	8.29	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS94	Has close friends who were friends in 8th grade	Sex										
		Male	48.05	54.86	50.43	-2.38	0.5303	0.6850	0.8663	2.75	Yes	
		Female	51.87	45.13	49.52	2.36	0.5307	0.6861	0.8674	2.72	Yes	
		Imputed value	0.07	0.01	0.05	0.02	0.0215	0.0327	0.0392	0.53	No	
		Race/ethnicity										
		American Indian	0.78	1.30	0.96	-0.18	0.1961	0.1920	0.2744	0.67	No	
		Asian	3.98	3.86	3.94	0.04	0.2519	0.3059	0.3963	0.10	No	
		Black	11.16	20.35	14.37	-3.22	0.6567	0.6544	0.9271	3.47	Yes	
		Multiracial	4.27	4.10	4.21	0.06	0.2234	0.2657	0.3471	0.17	No	
		White	65.57	50.41	60.27	5.30	0.9781	1.1232	1.4894	3.56	Yes	
		Hispanic ethnicity	13.58	18.68	15.37	-1.78	0.8554	0.9355	1.2676	1.41	No	
		Imputed value	0.67	1.29	0.88	-0.22	0.1015	0.0943	0.1385	1.56	No	
		Mother's education attainment										
		No High School Diploma	10.77	15.52	12.43	-1.66	0.5097	0.5747	0.7682	2.17	Yes	
		High School Graduate	26.42	27.28	26.72	-0.30	0.4797	0.5648	0.7410	0.41	No	
		2-year school, no degree	12.61	12.58	12.60	0.01	0.3480	0.4367	0.5584	0.02	No	
		2-year school, degree	11.05	10.34	10.80	0.25	0.3301	0.4176	0.5323	0.47	No	
		4-year school, no degree	10.16	9.82	10.04	0.12	0.2824	0.3588	0.4565	0.26	No	
		4-year degree	17.53	13.31	16.05	1.48	0.4635	0.5751	0.7386	2.00	Yes	
		Master's degree	6.48	4.51	5.79	0.69	0.2666	0.3438	0.4351	1.58	No	
		Ph.D. degree	1.87	1.30	1.67	0.20	0.1432	0.1834	0.2327	0.85	No	
		Imputed value	3.10	5.33	3.88	-0.78	0.2023	0.2171	0.2967	2.63	Yes	
		School sector										
		Public	92.00	93.02	92.36	-0.36	0.2849	0.3818	0.4764	0.75	No	
		Catholic	4.72	3.37	4.25	0.47	0.1608	0.2325	0.2826	1.67	No	
		Other private	3.28	3.60	3.39	-0.11	0.2332	0.2965	0.3772	0.30	No	
		School locale										
		Urban	28.48	33.27	30.15	-1.68	0.7480	1.0506	1.2897	1.30	No	
		Suburban	51.81	47.38	50.26	1.55	0.7954	1.1178	1.3719	1.13	No	
		Rural	19.72	19.35	19.59	0.13	0.6261	0.9227	1.1150	0.11	No	
		School region										
		Northeast	19.45	16.84	18.54	0.91	0.6524	0.9278	1.1342	0.81	No	
		Midwest	24.47	23.49	24.13	0.34	0.6474	0.9254	1.1294	0.30	No	
		South	30.81	40.79	34.30	-3.49	0.6644	0.9055	1.1231	3.11	Yes	
		West	25.27	18.87	23.04	2.24	0.8138	1.1024	1.3703	1.63	No	
		Reading achievement										
		Low quartile	21.48	31.48	24.97	-3.50	0.7193	0.7899	1.0683	3.27	Yes	
		Medium 2 quartiles	49.60	50.69	49.98	-0.38	0.5700	0.6491	0.8638	0.44	No	
		High quartile	28.93	17.83	25.05	3.88	0.6232	0.7787	0.9974	3.89	Yes	
		Math achievement										
		Low quartile	21.54	31.29	24.95	-3.41	0.7432	0.8097	1.0990	3.10	Yes	
		Medium quartile	49.39	51.20	50.03	-0.63	0.5721	0.6857	0.8931	0.71	No	
High quartile	29.07	17.51	25.03	4.04	0.6786	0.8501	1.0877	3.72	Yes			
Home language												
No (non-English)	12.33	15.81	13.55	-1.22	0.5852	0.7294	0.9352	1.30	No			
Yes (English)	87.29	78.92	84.36	2.93	0.6171	0.7369	0.9612	3.05	Yes			
Imputed value	0.37	5.27	2.08	-1.71	0.1964	0.0833	0.2134	8.02	Yes			

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS96	Observed students betting on sports	Sex										
		Male	48.68	53.65	50.43	-1.75	0.5303	0.6862	0.8672	2.02	Yes	
		Female	51.24	46.34	49.52	1.73	0.5307	0.6875	0.8685	1.99	Yes	
		Imputed value	0.08	0.01	0.05	0.03	0.0215	0.0331	0.0395	0.65	No	
		Race/ethnicity										
		American Indian	0.79	1.29	0.96	-0.18	0.1961	0.1946	0.2762	0.64	No	
		Asian	3.98	3.86	3.94	0.04	0.2519	0.3119	0.4009	0.10	No	
		Black	11.15	20.29	14.37	-3.22	0.6567	0.6573	0.9292	3.47	Yes	
		Multiracial	4.30	4.03	4.21	0.10	0.2234	0.2786	0.3571	0.27	No	
		White	65.71	50.27	60.27	5.45	0.9781	1.1213	1.4880	3.66	Yes	
		Hispanic ethnicity	13.39	19.00	15.37	-1.98	0.8554	0.9414	1.2720	1.56	No	
		Imputed value	0.68	1.26	0.88	-0.21	0.1015	0.1059	0.1467	1.40	No	
		Mother's education attainment										
		No High School Diploma	10.67	15.66	12.43	-1.76	0.5097	0.5717	0.7659	2.29	Yes	
		High School Graduate	26.39	27.32	26.72	-0.33	0.4797	0.5652	0.7414	0.44	No	
		2-year school, no degree	12.57	12.65	12.60	-0.03	0.3480	0.4357	0.5576	0.05	No	
		2-year school, degree	10.98	10.49	10.80	0.17	0.3301	0.4122	0.5281	0.33	No	
		4-year school, no degree	10.21	9.72	10.04	0.17	0.2824	0.3575	0.4555	0.38	No	
		4-year degree	17.48	13.45	16.05	1.42	0.4635	0.5608	0.7276	1.95	No	
		Master's degree	6.55	4.41	5.79	0.75	0.2666	0.3448	0.4358	1.73	No	
		Ph.D. degree	1.93	1.21	1.67	0.25	0.1432	0.1902	0.2381	1.06	No	
		Imputed value	3.22	5.10	3.88	-0.66	0.2023	0.2272	0.3042	2.18	Yes	
		School sector										
		Public	91.98	93.05	92.36	-0.38	0.2849	0.3794	0.4745	0.80	No	
		Catholic	4.72	3.38	4.25	0.47	0.1608	0.2287	0.2795	1.70	No	
		Other private	3.29	3.57	3.39	-0.10	0.2332	0.2957	0.3767	0.26	No	
		School locale										
		Urban	28.45	33.27	30.15	-1.70	0.7480	1.0478	1.2874	1.32	No	
		Suburban	51.74	47.54	50.26	1.48	0.7954	1.1223	1.3756	1.07	No	
		Rural	19.81	19.18	19.59	0.22	0.6261	0.9310	1.1219	0.20	No	
		School region										
		Northeast	19.36	17.02	18.54	0.82	0.6524	0.9281	1.1344	0.73	No	
		Midwest	24.62	23.23	24.13	0.49	0.6474	0.9155	1.1213	0.44	No	
		South	30.79	40.74	34.30	-3.51	0.6644	0.9182	1.1333	3.10	Yes	
		West	25.23	19.01	23.04	2.20	0.8138	1.1126	1.3784	1.59	No	
		Reading achievement										
		Low quartile	21.81	30.79	24.97	-3.17	0.7193	0.7910	1.0692	2.96	Yes	
		Medium 2 quartiles	49.59	50.69	49.98	-0.39	0.5700	0.6390	0.8563	0.45	No	
		High quartile	28.61	18.52	25.05	3.56	0.6232	0.7715	0.9918	3.59	Yes	
		Math achievement										
		Low quartile	21.72	30.87	24.95	-3.22	0.7432	0.7899	1.0845	2.97	Yes	
		Medium quartile	49.56	50.89	50.03	-0.47	0.5721	0.6724	0.8829	0.53	No	
		High quartile	28.72	18.24	25.03	3.69	0.6786	0.8381	1.0784	3.43	Yes	
		Home language										
		No (non-English)	12.38	15.71	13.55	-1.17	0.5852	0.7438	0.9464	1.24	No	
		Yes (English)	87.21	79.15	84.36	2.84	0.6171	0.7590	0.9782	2.90	Yes	
		Imputed value	0.42	5.15	2.08	-1.67	0.1964	0.0960	0.2187	7.63	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS97A	Bets were placed with friends	Sex										
		Male	48.66	53.66	50.43	-1.77	0.5303	0.6887	0.8692	2.04	Yes	
		Female	51.26	46.34	49.52	1.74	0.5307	0.6900	0.8705	2.00	Yes	
		Imputed value	0.08	0.01	0.05	0.03	0.0215	0.0332	0.0396	0.65	No	
		Race/ethnicity										
		American Indian	0.78	1.31	0.96	-0.19	0.1961	0.1946	0.2762	0.68	No	
		Asian	3.99	3.84	3.94	0.05	0.2519	0.3128	0.4016	0.13	No	
		Black	11.13	20.29	14.37	-3.24	0.6567	0.6589	0.9303	3.49	Yes	
		Multiracial	4.31	4.03	4.21	0.10	0.2234	0.2798	0.3581	0.28	No	
		White	65.67	50.43	60.27	5.40	0.9781	1.1247	1.4905	3.62	Yes	
		Hispanic ethnicity	13.45	18.86	15.37	-1.92	0.8554	0.9441	1.2740	1.50	No	
		Imputed value	0.68	1.25	0.88	-0.20	0.1015	0.1062	0.1469	1.39	No	
		Mother's education attainment										
		No High School Diploma	10.68	15.62	12.43	-1.75	0.5097	0.5719	0.7661	2.28	Yes	
		High School Graduate	26.41	27.28	26.72	-0.31	0.4797	0.5649	0.7411	0.42	No	
		2-year school, no degree	12.57	12.67	12.60	-0.04	0.3480	0.4351	0.5572	0.06	No	
		2-year school, degree	10.92	10.58	10.80	0.12	0.3301	0.4115	0.5275	0.23	No	
		4-year school, no degree	10.24	9.68	10.04	0.20	0.2824	0.3588	0.4565	0.43	No	
		4-year degree	17.48	13.45	16.05	1.43	0.4635	0.5587	0.7260	1.97	Yes	
		Master's degree	6.56	4.41	5.79	0.76	0.2666	0.3451	0.4361	1.74	No	
		Ph.D. degree	1.93	1.20	1.67	0.26	0.1432	0.1909	0.2387	1.08	No	
		Imputed value	3.21	5.11	3.88	-0.67	0.2023	0.2276	0.3045	2.20	Yes	
		School sector										
		Public	91.98	93.06	92.36	-0.38	0.2849	0.3799	0.4749	0.81	No	
		Catholic	4.72	3.38	4.25	0.47	0.1608	0.2293	0.2800	1.70	No	
		Other private	3.30	3.56	3.39	-0.09	0.2332	0.2957	0.3766	0.25	No	
		School locale										
		Urban	28.46	33.25	30.15	-1.70	0.7480	1.0537	1.2922	1.31	No	
		Suburban	51.75	47.53	50.26	1.50	0.7954	1.1264	1.3789	1.09	No	
		Rural	19.79	19.22	19.59	0.20	0.6261	0.9326	1.1233	0.18	No	
		School region										
		Northeast	19.35	17.05	18.54	0.81	0.6524	0.9321	1.1377	0.72	No	
		Midwest	24.60	23.26	24.13	0.48	0.6474	0.9195	1.1245	0.42	No	
		South	30.78	40.72	34.30	-3.52	0.6644	0.9193	1.1343	3.11	Yes	
		West	25.27	18.96	23.04	2.23	0.8138	1.1174	1.3823	1.62	No	
		Reading achievement										
		Low quartile	21.85	30.67	24.97	-3.13	0.7193	0.7896	1.0681	2.93	Yes	
		Medium 2 quartiles	49.49	50.86	49.98	-0.48	0.5700	0.6386	0.8560	0.57	No	
		High quartile	28.66	18.47	25.05	3.61	0.6232	0.7746	0.9942	3.63	Yes	
		Math achievement										
		Low quartile	21.72	30.83	24.95	-3.23	0.7432	0.7932	1.0870	2.97	Yes	
		Medium quartile	49.54	50.91	50.03	-0.48	0.5721	0.6758	0.8854	0.55	No	
		High quartile	28.74	18.26	25.03	3.71	0.6786	0.8403	1.0801	3.44	Yes	
		Home language										
		No (non-English)	12.42	15.62	13.55	-1.13	0.5852	0.7440	0.9466	1.20	No	
		Yes (English)	87.17	79.26	84.36	2.80	0.6171	0.7590	0.9782	2.86	Yes	
		Imputed value	0.42	5.13	2.08	-1.67	0.1964	0.0961	0.2187	7.64	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant
BYS97B	Bets were placed with family members	Sex									
		Male	48.66	53.66	50.43	-1.77	0.5303	0.6887	0.8692	2.04	Yes
		Female	51.26	46.34	49.52	1.74	0.5307	0.6900	0.8705	2.00	Yes
		Imputed value	0.08	0.01	0.05	0.03	0.0215	0.0332	0.0396	0.65	No
		Race/ethnicity									
		American Indian	0.78	1.31	0.96	-0.19	0.1961	0.1946	0.2762	0.68	No
		Asian	3.99	3.84	3.94	0.05	0.2519	0.3128	0.4016	0.13	No
		Black	11.13	20.29	14.37	-3.24	0.6567	0.6589	0.9303	3.49	Yes
		Multiracial	4.31	4.03	4.21	0.10	0.2234	0.2798	0.3581	0.28	No
		White	65.67	50.43	60.27	5.40	0.9781	1.1247	1.4905	3.62	Yes
		Hispanic ethnicity	13.45	18.86	15.37	-1.92	0.8554	0.9441	1.2740	1.50	No
		Imputed value	0.68	1.25	0.88	-0.20	0.1015	0.1062	0.1469	1.39	No
		Mother's education attainment									
		No High School Diploma	10.68	15.62	12.43	-1.75	0.5097	0.5719	0.7661	2.28	Yes
		High School Graduate	26.41	27.28	26.72	-0.31	0.4797	0.5649	0.7411	0.42	No
		2-year school, no degree	12.57	12.67	12.60	-0.04	0.3480	0.4351	0.5572	0.06	No
		2-year school, degree	10.92	10.58	10.80	0.12	0.3301	0.4115	0.5275	0.23	No
		4-year school, no degree	10.24	9.68	10.04	0.20	0.2824	0.3588	0.4565	0.43	No
		4-year degree	17.48	13.45	16.05	1.43	0.4635	0.5587	0.7260	1.97	Yes
		Master's degree	6.56	4.41	5.79	0.76	0.2666	0.3451	0.4361	1.74	No
		Ph.D. degree	1.93	1.20	1.67	0.26	0.1432	0.1909	0.2387	1.08	No
		Imputed value	3.21	5.11	3.88	-0.67	0.2023	0.2276	0.3045	2.20	Yes
		School sector									
		Public	91.98	93.06	92.36	-0.38	0.2849	0.3799	0.4749	0.81	No
		Catholic	4.72	3.38	4.25	0.47	0.1608	0.2293	0.2800	1.70	No
		Other private	3.30	3.56	3.39	-0.09	0.2332	0.2957	0.3766	0.25	No
		School locale									
		Urban	28.46	33.25	30.15	-1.70	0.7480	1.0537	1.2922	1.31	No
		Suburban	51.75	47.53	50.26	1.50	0.7954	1.1264	1.3789	1.09	No
		Rural	19.79	19.22	19.59	0.20	0.6261	0.9326	1.1233	0.18	No
		School region									
		Northeast	19.35	17.05	18.54	0.81	0.6524	0.9321	1.1377	0.72	No
		Midwest	24.60	23.26	24.13	0.48	0.6474	0.9195	1.1245	0.42	No
		South	30.78	40.72	34.30	-3.52	0.6644	0.9193	1.1343	3.11	Yes
		West	25.27	18.96	23.04	2.23	0.8138	1.1174	1.3823	1.62	No
		Reading achievement									
		Low quartile	21.85	30.67	24.97	-3.13	0.7193	0.7896	1.0681	2.93	Yes
		Medium 2 quartiles	49.49	50.86	49.98	-0.48	0.5700	0.6386	0.8560	0.57	No
		High quartile	28.66	18.47	25.05	3.61	0.6232	0.7746	0.9942	3.63	Yes
		Math achievement									
		Low quartile	21.72	30.83	24.95	-3.23	0.7432	0.7932	1.0870	2.97	Yes
		Medium quartile	49.54	50.91	50.03	-0.48	0.5721	0.6758	0.8854	0.55	No
		High quartile	28.74	18.26	25.03	3.71	0.6786	0.8403	1.0801	3.44	Yes
		Home language									
		No (non-English)	12.42	15.62	13.55	-1.13	0.5852	0.7440	0.9466	1.20	No
		Yes (English)	87.17	79.26	84.36	2.80	0.6171	0.7590	0.9782	2.86	Yes
		Imputed value	0.42	5.13	2.08	-1.67	0.1964	0.0961	0.2187	7.64	Yes

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS97C	Bets were placed with bookie	Sex										
		Male	48.66	53.66	50.43	-1.77	0.5303	0.6887	0.8692	2.04	Yes	
		Female	51.26	46.34	49.52	1.74	0.5307	0.6900	0.8705	2.00	Yes	
		Imputed value	0.08	0.01	0.05	0.03	0.0215	0.0332	0.0396	0.65	No	
		Race/ethnicity										
		American Indian	0.78	1.31	0.96	-0.19	0.1961	0.1946	0.2762	0.68	No	
		Asian	3.99	3.84	3.94	0.05	0.2519	0.3128	0.4016	0.13	No	
		Black	11.13	20.29	14.37	-3.24	0.6567	0.6589	0.9303	3.49	Yes	
		Multiracial	4.31	4.03	4.21	0.10	0.2234	0.2798	0.3581	0.28	No	
		White	65.67	50.43	60.27	5.40	0.9781	1.1247	1.4905	3.62	Yes	
		Hispanic ethnicity	13.45	18.86	15.37	-1.92	0.8554	0.9441	1.2740	1.50	No	
		Imputed value	0.68	1.25	0.88	-0.20	0.1015	0.1062	0.1469	1.39	No	
		Mother's education attainment										
		No High School Diploma	10.68	15.62	12.43	-1.75	0.5097	0.5719	0.7661	2.28	Yes	
		High School Graduate	26.41	27.28	26.72	-0.31	0.4797	0.5649	0.7411	0.42	No	
		2-year school, no degree	12.57	12.67	12.60	-0.04	0.3480	0.4351	0.5572	0.06	No	
		2-year school, degree	10.92	10.58	10.80	0.12	0.3301	0.4115	0.5275	0.23	No	
		4-year school, no degree	10.24	9.68	10.04	0.20	0.2824	0.3588	0.4565	0.43	No	
		4-year degree	17.48	13.45	16.05	1.43	0.4635	0.5587	0.7260	1.97	Yes	
		Master's degree	6.56	4.41	5.79	0.76	0.2666	0.3451	0.4361	1.74	No	
		Ph.D. degree	1.93	1.20	1.67	0.26	0.1432	0.1909	0.2387	1.08	No	
		Imputed value	3.21	5.11	3.88	-0.67	0.2023	0.2276	0.3045	2.20	Yes	
		School sector										
		Public	91.98	93.06	92.36	-0.38	0.2849	0.3799	0.4749	0.81	No	
		Catholic	4.72	3.38	4.25	0.47	0.1608	0.2293	0.2800	1.70	No	
		Other private	3.30	3.56	3.39	-0.09	0.2332	0.2957	0.3766	0.25	No	
		School locale										
		Urban	28.46	33.25	30.15	-1.70	0.7480	1.0537	1.2922	1.31	No	
		Suburban	51.75	47.53	50.26	1.50	0.7954	1.1264	1.3789	1.09	No	
		Rural	19.79	19.22	19.59	0.20	0.6261	0.9326	1.1233	0.18	No	
		School region										
		Northeast	19.35	17.05	18.54	0.81	0.6524	0.9321	1.1377	0.72	No	
		Midwest	24.60	23.26	24.13	0.48	0.6474	0.9195	1.1245	0.42	No	
		South	30.78	40.72	34.30	-3.52	0.6644	0.9193	1.1343	3.11	Yes	
		West	25.27	18.96	23.04	2.23	0.8138	1.1174	1.3823	1.62	No	
		Reading achievement										
		Low quartile	21.85	30.67	24.97	-3.13	0.7193	0.7896	1.0681	2.93	Yes	
		Medium 2 quartiles	49.49	50.86	49.98	-0.48	0.5700	0.6386	0.8560	0.57	No	
		High quartile	28.66	18.47	25.05	3.61	0.6232	0.7746	0.9942	3.63	Yes	
		Math achievement										
		Low quartile	21.72	30.83	24.95	-3.23	0.7432	0.7932	1.0870	2.97	Yes	
		Medium quartile	49.54	50.91	50.03	-0.48	0.5721	0.6758	0.8854	0.55	No	
		High quartile	28.74	18.26	25.03	3.71	0.6786	0.8403	1.0801	3.44	Yes	
		Home language										
		No (non-English)	12.42	15.62	13.55	-1.13	0.5852	0.7440	0.9466	1.20	No	
		Yes (English)	87.17	79.26	84.36	2.80	0.6171	0.7590	0.9782	2.86	Yes	
		Imputed value	0.42	5.13	2.08	-1.67	0.1964	0.0961	0.2187	7.64	Yes	

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All selected	Respondent	Non-respondent	Bias	All selected standard error	Respondent standard error	Bias standard error	T-value	Bias significant	
BYS97D	Bets were placed with a website	Sex										
		Male	48.66	53.66	50.43	-1.77	0.5303	0.6887	0.8692	2.04	Yes	
		Female	51.26	46.34	49.52	1.74	0.5307	0.6900	0.8705	2.00	Yes	
		Imputed value	0.08	0.01	0.05	0.03	0.0215	0.0332	0.0396	0.65	No	
		Race/ethnicity										
		American Indian	0.78	1.31	0.96	-0.19	0.1961	0.1946	0.2762	0.68	No	
		Asian	3.99	3.84	3.94	0.05	0.2519	0.3128	0.4016	0.13	No	
		Black	11.13	20.29	14.37	-3.24	0.6567	0.6589	0.9303	3.49	Yes	
		Multiracial	4.31	4.03	4.21	0.10	0.2234	0.2798	0.3581	0.28	No	
		White	65.67	50.43	60.27	5.40	0.9781	1.1247	1.4905	3.62	Yes	
		Hispanic ethnicity	13.45	18.86	15.37	-1.92	0.8554	0.9441	1.2740	1.50	No	
		Imputed value	0.68	1.25	0.88	-0.20	0.1015	0.1062	0.1469	1.39	No	
		Mother's education attainment										
		No High School Diploma	10.68	15.62	12.43	-1.75	0.5097	0.5719	0.7661	2.28	Yes	
		High School Graduate	26.41	27.28	26.72	-0.31	0.4797	0.5649	0.7411	0.42	No	
		2-year school, no degree	12.57	12.67	12.60	-0.04	0.3480	0.4351	0.5572	0.06	No	
		2-year school, degree	10.92	10.58	10.80	0.12	0.3301	0.4115	0.5275	0.23	No	
		4-year school, no degree	10.24	9.68	10.04	0.20	0.2824	0.3588	0.4565	0.43	No	
		4-year degree	17.48	13.45	16.05	1.43	0.4635	0.5587	0.7260	1.97	Yes	
		Master's degree	6.56	4.41	5.79	0.76	0.2666	0.3451	0.4361	1.74	No	
		Ph.D. degree	1.93	1.20	1.67	0.26	0.1432	0.1909	0.2387	1.08	No	
		Imputed value	3.21	5.11	3.88	-0.67	0.2023	0.2276	0.3045	2.20	Yes	
		School sector										
		Public	91.98	93.06	92.36	-0.38	0.2849	0.3799	0.4749	0.81	No	
		Catholic	4.72	3.38	4.25	0.47	0.1608	0.2293	0.2800	1.70	No	
		Other private	3.30	3.56	3.39	-0.09	0.2332	0.2957	0.3766	0.25	No	
		School locale										
		Urban	28.46	33.25	30.15	-1.70	0.7480	1.0537	1.2922	1.31	No	
		Suburban	51.75	47.53	50.26	1.50	0.7954	1.1264	1.3789	1.09	No	
		Rural	19.79	19.22	19.59	0.20	0.6261	0.9326	1.1233	0.18	No	
		School region										
		Northeast	19.35	17.05	18.54	0.81	0.6524	0.9321	1.1377	0.72	No	
		Midwest	24.60	23.26	24.13	0.48	0.6474	0.9195	1.1245	0.42	No	
		South	30.78	40.72	34.30	-3.52	0.6644	0.9193	1.1343	3.11	Yes	
		West	25.27	18.96	23.04	2.23	0.8138	1.1174	1.3823	1.62	No	
		Reading achievement										
		Low quartile	21.85	30.67	24.97	-3.13	0.7193	0.7896	1.0681	2.93	Yes	
		Medium 2 quartiles	49.49	50.86	49.98	-0.48	0.5700	0.6386	0.8560	0.57	No	
		High quartile	28.66	18.47	25.05	3.61	0.6232	0.7746	0.9942	3.63	Yes	
		Math achievement										
Low quartile	21.72	30.83	24.95	-3.23	0.7432	0.7932	1.0870	2.97	Yes			
Medium quartile	49.54	50.91	50.03	-0.48	0.5721	0.6758	0.8854	0.55	No			
High quartile	28.74	18.26	25.03	3.71	0.6786	0.8403	1.0801	3.44	Yes			
Home language	12.42	15.62	13.55	-1.13	0.5852	0.7440	0.9466	1.20	No			
No (non-English)	87.17	79.26	84.36	2.80	0.6171	0.7590	0.9782	2.86	Yes			
Yes (English)	0.42	5.13	2.08	-1.67	0.1964	0.0961	0.2187	7.64	Yes			

See note at end of table.

Table I-1. ELS:2002 student file summary item bias figures for 78 high-nonresponse variables—Continued

Variable	Description	Characteristic	All	Respondent	Non-	Bias	All	Respondent	Bias	T-	Bias
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		selected		respondent		selected standard error	standard error	standard error	value	significant
BYS97E	Bets were placed through other means									
	Sex									
	Male	48.66	53.66	50.43	-1.77	0.5303	0.6887	0.8692	2.04	Yes
	Female	51.26	46.34	49.52	1.74	0.5307	0.6900	0.8705	2.00	Yes
	Imputed value	0.08	0.01	0.05	0.03	0.0215	0.0332	0.0396	0.65	No
	Race/ethnicity									
	American Indian	0.78	1.31	0.96	-0.19	0.1961	0.1946	0.2762	0.68	No
	Asian	3.99	3.84	3.94	0.05	0.2519	0.3128	0.4016	0.13	No
	Black	11.13	20.29	14.37	-3.24	0.6567	0.6589	0.9303	3.49	Yes
	Multiracial	4.31	4.03	4.21	0.10	0.2234	0.2798	0.3581	0.28	No
	White	65.67	50.43	60.27	5.40	0.9781	1.1247	1.4905	3.62	Yes
	Hispanic ethnicity	13.45	18.86	15.37	-1.92	0.8554	0.9441	1.2740	1.50	No
	Imputed value	0.68	1.25	0.88	-0.20	0.1015	0.1062	0.1469	1.39	No
	Mother's education attainment									
	No High School Diploma	10.68	15.62	12.43	-1.75	0.5097	0.5719	0.7661	2.28	Yes
	High School Graduate	26.41	27.28	26.72	-0.31	0.4797	0.5649	0.7411	0.42	No
	2-year school, no degree	12.57	12.67	12.60	-0.04	0.3480	0.4351	0.5572	0.06	No
	2-year school, degree	10.92	10.58	10.80	0.12	0.3301	0.4115	0.5275	0.23	No
	4-year school, no degree	10.24	9.68	10.04	0.20	0.2824	0.3588	0.4565	0.43	No
	4-year degree	17.48	13.45	16.05	1.43	0.4635	0.5587	0.7260	1.97	Yes
	Master's degree	6.56	4.41	5.79	0.76	0.2666	0.3451	0.4361	1.74	No
	Ph.D. degree	1.93	1.20	1.67	0.26	0.1432	0.1909	0.2387	1.08	No
	Imputed value	3.21	5.11	3.88	-0.67	0.2023	0.2276	0.3045	2.20	Yes
	School sector									
	Public	91.98	93.06	92.36	-0.38	0.2849	0.3799	0.4749	0.81	No
	Catholic	4.72	3.38	4.25	0.47	0.1608	0.2293	0.2800	1.70	No
	Other private	3.30	3.56	3.39	-0.09	0.2332	0.2957	0.3766	0.25	No
	School locale									
	Urban	28.46	33.25	30.15	-1.70	0.7480	1.0537	1.2922	1.31	No
	Suburban	51.75	47.53	50.26	1.50	0.7954	1.1264	1.3789	1.09	No
	Rural	19.79	19.22	19.59	0.20	0.6261	0.9326	1.1233	0.18	No
	School region									
	Northeast	19.35	17.05	18.54	0.81	0.6524	0.9321	1.1377	0.72	No
	Midwest	24.60	23.26	24.13	0.48	0.6474	0.9195	1.1245	0.42	No
	South	30.78	40.72	34.30	-3.52	0.6644	0.9193	1.1343	3.11	Yes
	West	25.27	18.96	23.04	2.23	0.8138	1.1174	1.3823	1.62	No
	Reading achievement									
	Low quartile	21.85	30.67	24.97	-3.13	0.7193	0.7896	1.0681	2.93	Yes
	Medium 2 quartiles	49.49	50.86	49.98	-0.48	0.5700	0.6386	0.8560	0.57	No
	High quartile	28.66	18.47	25.05	3.61	0.6232	0.7746	0.9942	3.63	Yes
	Math achievement									
	Low quartile	21.72	30.83	24.95	-3.23	0.7432	0.7932	1.0870	2.97	Yes
	Medium quartile	49.54	50.91	50.03	-0.48	0.5721	0.6758	0.8854	0.55	No
	High quartile	28.74	18.26	25.03	3.71	0.6786	0.8403	1.0801	3.44	Yes
	Home language									
	No (non-English)	12.42	15.62	13.55	-1.13	0.5852	0.7440	0.9466	1.20	No
	Yes (English)	87.17	79.26	84.36	2.80	0.6171	0.7590	0.9782	2.86	Yes
	Imputed value	0.42	5.13	2.08	-1.67	0.1964	0.0961	0.2187	7.64	Yes

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002).

Appendix J
Details of School and Student Sampling

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Appendix J Details of School and Student Sampling

J.1 School Sampling

This section gives the mathematical details of the school sampling design for the full-scale survey. A composite measure of size sampling approach was used to select the school sample because, as demonstrated by Folsom et al. (1987), composite measure of size sampling designs are useful for achieving self-weighting samples for multiple analysis domains (e.g., student by school strata) in multistage sampling designs with equal workloads for all primary sampling units (schools).

Defining notation for the strata, the student sampling rates, and the composite measure of size for schools begins as follows:

- (1) $r = 1, 2, \dots, 66$ indexes the school strata (region by metro status by public/Catholic/other private).
- (2) $s = 1, 2, 3$ indexes the student strata.
- (3) $i = 1, 2, \dots, I(r)$ indexes the schools in stratum “r.”
- (4) $M_{rs}(i)$ = number of students enrolled in the 10th grade in 2002 who belonged to student stratum “s” at the i-th school in stratum “r” based on the latest Common Core of Data (CCD) and Private School Survey (PSS) data.
- (5) m_{rs} = number of students, adjusted for nonresponse, selected from student stratum “s” within the r-th school stratum, referred to henceforth as student stratum “rs.”

The overall population sampling rate for student stratum “rs” then is given by

$$f_{rs} = m_{rs} / M_{rs}(+) ,$$

where

$$M_{rs}(+) = \sum_{i=1}^{I(r)} M_{rs}(i) .$$

The student sampling rates, f_{rs} , were computed based on the final sample allocation and frame data regarding the population sizes.

The composite measure of size for the i-th school in stratum “r” was then defined as was then defined as

$$S_r(i) = \sum_{s=1}^3 f_{rs} M_{rs}(i) ,$$

which is the number of students who would be selected from the i-th school if all schools on the frame were to be sampled.

An independent sample of schools was selected for each school stratum using Chromy's sequential probability with minimum replacement (pmr) sampling algorithm to select schools with probabilities proportional to their measures of size (Chromy 1979). There were no schools with an expected frequency of selection greater than unity (1.00). Therefore, the expected frequency of selection for the i -th school in school stratum "r" was given by

$$\pi_r(i) = \frac{n_r^* S_r(i)}{S_r(+)} , \text{ for non-certainty selections;}$$

where

$$S_r(+) = \sum_{i=1}^{I(r)} S_r(i) ,$$

and n_r is the number of non-certainty selections from stratum "r."

Within each of the "r" school strata, implicit stratification was achieved by sorting the stratum "r" sampling frame in a serpentine manner (see Williams and Chromy 1980) by state. The objectives of this additional, implicit stratification were to ensure proportionate representation of all states.

J.2 Student Sampling

Recall that the overall population sampling rate for student stratum "rs" was given by

$$f_{rs} = m_{rs} / M_{rs}(+) ,$$

where

$$M_{rs}(+) = \sum_{i=1}^{I(r)} M_{rs}(i) .$$

For the unconditional probability of selection to be a constant for all eligible students in stratum "rs," the overall probability of selection should be the overall student sampling fraction, f_{rs} ; i.e., it was required that

$$\frac{m_{rs}(i)}{M_{rs}(i)} \pi_r(i) = f_{rs} ,$$

or equivalently,

$$m_{rs}(i) = f_{rs} \frac{M_{rs}(i)}{\pi_r(i)} .$$

Thus, the conditional sampling rate for stratum "rs," given selection of the i -th school, became

$$f_{rs|i} = f_{rs} / \pi_r(i)$$

However, in this case, the desired overall student sample size, m_s , was achieved only in expectation over all possible samples.

Achieving the desired sample sizes with equal probabilities within strata in the particular sample that has been selected, and simultaneously adjusting for school nonresponse and ineligibility, required that

$$\frac{m_{rs}(i)}{i \in R} = m_{rs} \quad ,$$

where “R” denoted the set of eligible, responding schools. If the conditional student sampling rate for stratum “rs” in the i-th school was

$$\hat{f}_{rs|i} = \hat{f}_{rs} / \pi_r(i) \quad ,$$

it then required

$$\frac{\hat{f}_{rs}}{i \in R} \frac{M_{rs}(i)}{\pi_r(i)} = m_{rs} \quad ,$$

or equivalently,

$$\hat{f}_{rs} = m_{rs} / \hat{M}_{rs} \quad ,$$

where

$$\hat{M}_{rs} = \frac{\sum_{i \in R} M_{rs}(i)}{\pi_r(i)} \quad .$$

Since it was necessary to set the student sampling rates before having complete information on eligibility and response status, M_{rs} was calculated as follows:

$$\hat{M}_{rs} = \frac{M_{rs}(i)}{i \in S} \pi_r(i) * [E_r R_r E_{rs}] \quad ,$$

where “S” denotes the set of all sample schools,

- E_r = the school eligibility factor for school stratum “r,”
- R_r = the school response factor for school stratum “r,”
- E_{rs} = the student eligibility factor for student stratum “rs.”

J.3 References

- Folsom, R.E., Potter, F.J., and Williams, S.R. (1987). Notes on a Composite Size Measure for Self-Weighting Samples in Multiple Domains. *Proceedings of the Survey Research Methods Section* (pp. 792–796). The American Statistical Association.
- Chromy, J.R. (1979). Sequential Sample Selection Methods. *Proceedings of the Survey Research Methods Section* (pp. 401–406). The American Statistical Association.
- Williams, R.L., and Chromy, J.R. (1980). SAS Sample Selection MACROS. *Proceedings of the Fifth Annual SAS Users Group International Conference* (pp. 392–396).

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Appendix K
Standard Errors and Design Effects

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Table K–1. Parent design effects – all

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Biological parent completed questionnaire	BYP01	92.1	0.28	0.23	13487	1.48	1.22
Student lives with you all of the time	BYP05	94.6	0.24	0.20	13440	1.52	1.23
Average number of people dependent on parent or spouse/partner	BYP06	2.7	0.02	0.01	12505	2.24	1.50
Married	BYP10	72.7	0.51	0.38	13422	1.76	1.33
Biological mother born in the U.S.	BYP17	81.9	0.68	0.33	13391	4.18	2.04
Parent's native language is English	BYP28	85.0	0.68	0.31	13361	4.80	2.19
Parent attended college, no 4-year degree	PARED	11.9	0.32	0.26	15362	1.46	1.21
Parent works full-time	BYP36	63.1	0.53	0.42	13378	1.61	1.27
Mother works in a professional occupation	OCCUMOTH	17.3	0.46	0.30	15362	2.29	1.51
Spouse/partner works full-time	BYP40	82.0	0.53	0.37	10512	1.97	1.40
Father works in a professional occupation	OCCUFATH	14.8	0.44	0.29	15362	2.37	1.54
Child changed school 1 time since first grade	BYP45	12.1	0.36	0.29	12394	1.48	1.22
Child was held back a grade	BYP46	12.6	0.40	0.30	12430	1.79	1.34
Contacted by school about participating in school fund-raising activities or doing volunteer work	BYP52H	35.2	0.65	0.43	12308	2.28	1.51
Belong to school's parent-teacher organization	BYP54A	24.2	0.74	0.39	12271	3.67	1.92
Always discuss child's report card with child	BYP55B	86.7	0.37	0.30	12404	1.49	1.22
Provided advice or information about applying to college or other schools after high school	BYP56C	73.8	0.50	0.40	12310	1.59	1.26
Parent sometimes or frequently attended school activities	BYP57A	69.4	0.56	0.41	12428	1.87	1.37
Parent of child's friend did me a favor	BYP60B	65.2	0.60	0.43	12176	1.96	1.40
Child has another parent living outside of home	BYP61	32.1	0.54	0.42	12316	1.65	1.28
Average number of years living in current neighborhood	BYP65	10.7	0.12	0.08	12418	2.23	1.49
Low level of crime in neighborhood	BYP67	88.6	0.47	0.29	12323	2.72	1.65
Family rules enforced for doing homework	BYP69B	92.9	0.28	0.23	12320	1.48	1.22
Parent and child eat at least one meal together twice a week	BYP70	8.8	0.32	0.24	13316	1.70	1.31
Computer in home for 10 th grader to use	BYP71	75.3	0.61	0.35	15362	3.04	1.74
Use computer to communicate with 10 th grader's teachers and administrative staff via E-mail about child	BYP74A	51.0	1.33	0.74	4595	3.24	1.80
Child's school has a voice-messaging system	BYP75	54.1	1.02	0.45	12392	5.17	2.27
Want child to attend college	PARASPIR	1.0	0.09	0.08	15362	1.31	1.14
Very important that child's school after high school is in a low crime environment	BYP80I	88.5	0.37	0.29	11786	1.60	1.26
Started a savings account for child's education after high school	BYP83A	76.1	0.70	0.55	6056	1.61	1.27
SUMMARY STATISTICS							
Mean						2.25	1.47
Minimum						1.31	1.14
Median						1.83	1.35
Maximum						5.17	2.27
Standard deviation						1.02	0.30

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-2. Parent design effects – male

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Biological parent completed questionnaire	BYP01	91.7	0.37	0.34	6692	1.20	1.09
Student lives with you all of the time	BYP05	94.5	0.33	0.28	6669	1.37	1.17
Average number of people dependent on parent or spouse/partner	BYP06	2.6	0.02	0.02	6187	1.57	1.25
Married	BYP10	73.0	0.71	0.54	6664	1.70	1.30
Biological mother born in the U.S.	BYP17	82.2	0.75	0.47	6640	2.56	1.60
Parent's native language is English	BYP28	85.8	0.70	0.43	6627	2.67	1.63
Parent attended college, no 4-year degree	PARED	12.0	0.45	0.37	7646	1.49	1.22
Parent works full-time	BYP36	64.0	0.72	0.59	6638	1.51	1.23
Mother works in a professional occupation	OCCUMOTH	18.0	0.59	0.44	7646	1.79	1.34
Spouse/partner works full-time	BYP40	81.2	0.76	0.54	5255	1.98	1.41
Father works in a professional occupation	OCCUFATH	14.5	0.54	0.40	7646	1.79	1.34
Child changed school 1 time since first grade	BYP45	12.0	0.53	0.42	6126	1.61	1.27
Child was held back a grade	BYP46	15.4	0.60	0.46	6143	1.67	1.29
Contacted by school about participating in school fund-raising activities or doing volunteer work	BYP52H	32.6	0.82	0.60	6063	1.86	1.36
Belong to school's parent-teacher organization	BYP54A	23.6	0.84	0.55	6062	2.37	1.54
Always discuss child's report card with child	BYP55B	87.4	0.53	0.42	6130	1.54	1.24
Provided advice or information about applying to college or other schools after high school	BYP56C	72.5	0.76	0.57	6072	1.74	1.32
Parent sometimes or frequently attended school activities	BYP57A	67.2	0.76	0.60	6133	1.62	1.27
Parent of child's friend did me a favor	BYP60B	64.0	0.76	0.62	6010	1.49	1.22
Child has another parent living outside of home	BYP61	31.3	0.71	0.59	6086	1.44	1.20
Average number of years living in current neighborhood	BYP65	10.9	0.16	0.11	6133	1.97	1.40
Low level of crime in neighborhood	BYP67	88.2	0.61	0.41	6085	2.18	1.48
Family rules enforced for doing homework	BYP69B	92.9	0.39	0.33	6090	1.41	1.19
Parent and child eat at least one meal together twice a week	BYP70	8.3	0.42	0.34	6609	1.51	1.23
Computer in home for 10th grader to use	BYP71	74.9	0.74	0.50	7646	2.26	1.50
Use computer to communicate with 10th grader's teachers and administrative staff via E-mail about child	BYP74A	53.7	1.53	1.03	2352	2.20	1.48
Child's school has a voice-messaging system	BYP75	54.2	1.15	0.64	6133	3.27	1.81
Want child to attend college	PARASPIR	1.2	0.15	0.13	7646	1.48	1.21
Very important that child's school after high school is in a low crime environment	BYP80I	86.8	0.55	0.44	5793	1.51	1.23
Started a savings account for child's education after high school	BYP83A	76.3	0.87	0.78	2992	1.26	1.12
SUMMARY STATISTICS							
Mean						1.80	1.33
Minimum						1.20	1.09
Median						1.65	1.28
Maximum						3.27	1.81
Standard deviation						0.47	0.16

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-3. Parent design effects – female

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Biological parent completed questionnaire	BYP01	92.5	0.39	0.32	6795	1.52	1.23
Student lives with you all of the time	BYP05	94.7	0.36	0.27	6771	1.75	1.32
Average number of people dependent on parent or spouse/partner	BYP06	2.7	0.02	0.02	6318	1.75	1.32
Married	BYP10	72.3	0.69	0.54	6758	1.60	1.26
Biological mother born in the U.S.	BYP17	81.7	0.86	0.47	6751	3.30	1.82
Parent's native language is English	BYP28	84.2	0.87	0.44	6734	3.86	1.96
Parent attended college, no 4-year degree	PARED	11.8	0.46	0.37	7716	1.60	1.26
Parent works full-time	BYP36	62.1	0.74	0.59	6740	1.59	1.26
Mother works in a professional occupation	OCCUMOTH	16.6	0.58	0.42	7716	1.90	1.38
Spouse/partner works full-time	BYP40	82.8	0.65	0.52	5257	1.57	1.25
Father works in a professional occupation	OCCUFATH	15.0	0.58	0.41	7716	2.07	1.44
Child changed school 1 time since first grade	BYP45	12.2	0.52	0.41	6268	1.58	1.26
Child was held back a grade	BYP46	9.9	0.45	0.38	6287	1.41	1.19
Contacted by school about participating in school fund-raising activities or doing volunteer work	BYP52H	37.8	0.82	0.61	6245	1.78	1.33
Belong to school's parent-teacher organization	BYP54A	24.8	0.90	0.55	6209	2.68	1.64
Always discuss child's report card with child	BYP55B	86.1	0.53	0.44	6274	1.46	1.21
Provided advice or information about applying to college or other schools after high school	BYP56C	75.0	0.65	0.55	6238	1.38	1.18
Parent sometimes or frequently attended school activities	BYP57A	71.6	0.76	0.57	6295	1.80	1.34
Parent of child's friend did me a favor	BYP60B	66.5	0.80	0.60	6166	1.75	1.32
Child has another parent living outside of home	BYP61	32.8	0.78	0.60	6230	1.71	1.31
Average number of years living in current neighborhood	BYP65	10.5	0.14	0.11	6285	1.69	1.30
Low level of crime in neighborhood	BYP67	88.9	0.55	0.40	6238	1.90	1.38
Family rules enforced for doing homework	BYP69B	92.8	0.39	0.33	6230	1.39	1.18
Parent and child eat at least one meal together twice a week	BYP70	9.2	0.47	0.35	6707	1.79	1.34
Computer in home for 10 th grader to use	BYP71	75.7	0.76	0.49	7716	2.43	1.56
Use computer to communicate with 10 th grader's teachers and administrative staff via E-mail about child	BYP74A	48.2	1.67	1.06	2243	2.52	1.59
Child's school has a voice-messaging system	BYP75	54.0	1.15	0.63	6259	3.32	1.82
Want child to attend college	PARASPIR	0.8	0.12	0.10	7716	1.26	1.12
Very important that child's school after high school is in a low crime environment	BYP80I	90.2	0.49	0.38	5993	1.63	1.28
Started a savings account for child's education after high school	BYP83A	76.0	1.04	0.77	3064	1.83	1.35
SUMMARY STATISTICS							
Mean						1.93	1.37
Minimum						1.26	1.12
Median						1.75	1.32
Maximum						3.86	1.96
Standard deviation						0.63	0.20

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-4. Parent design effects – Indian

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Biological parent completed questionnaire	BYP01	86.5	4.58	3.27	110	1.96	1.40
Student lives with you all of the time	BYP05	90.1	3.04	2.87	109	1.12	1.06
Average number of people dependent on parent or spouse/partner	BYP06	2.9	0.23	0.16	103	2.04	1.43
Married	BYP10	55.2	6.98	4.79	109	2.13	1.46
Biological mother born in the U.S.	BYP17	91.9	3.13	2.62	109	1.43	1.20
Parent's native language is English	BYP28	84.8	5.36	3.44	110	2.43	1.56
Parent attended college, no 4-year degree	PARED	18.7	3.67	3.42	131	1.15	1.07
Parent works full-time	BYP36	65.2	4.46	4.58	109	0.95	0.97
Mother works in a professional occupation	OCCUMOTH	22.2	3.54	3.64	131	0.95	0.97
Spouse/partner works full-time	BYP40	82.2	4.96	4.51	73	1.21	1.10
Father works in a professional occupation	OCCUFATH	16.5	5.40	3.25	131	2.75	1.66
Child changed school 1 time since first grade	BYP45	15.4	4.59	3.61	101	1.62	1.27
Child was held back a grade	BYP46	17.7	3.93	3.80	102	1.07	1.03
Contacted by school about participating in school fund-raising activities or doing volunteer work	BYP52H	26.2	4.72	4.40	101	1.15	1.07
Belong to school's parent-teacher organization	BYP54A	10.4	3.88	3.05	101	1.62	1.27
Always discuss child's report card with child	BYP55B	81.2	4.63	3.91	101	1.40	1.18
Provided advice or information about applying to college or other schools after high school	BYP56C	64.1	5.94	4.80	101	1.54	1.24
Parent sometimes or frequently attended school activities	BYP57A	69.0	5.41	4.65	100	1.35	1.16
Parent of child's friend did me a favor	BYP60B	64.4	6.15	4.79	101	1.65	1.28
Child has another parent living outside of home	BYP61	46.5	6.72	5.04	99	1.78	1.33
Average number of years living in current neighborhood	BYP65	11.9	1.19	1.24	98	0.92	0.96
Low level of crime in neighborhood	BYP67	80.1	6.47	4.01	100	2.59	1.61
Family rules enforced for doing homework	BYP69B	93.5	2.79	2.49	99	1.25	1.12
Parent and child eat at least one meal together twice a week	BYP70	7.0	3.22	2.49	106	1.67	1.29
Computer in home for 10 th grader to use	BYP71	55.7	5.03	4.36	131	1.33	1.15
Use computer to communicate with 10 th grader's teachers and administrative staff via E-mail about child	BYP74A	53.1	13.61	11.16	21	1.49	1.22
Child's school has a voice-messaging system	BYP75	44.4	5.93	4.97	101	1.42	1.19
Want child to attend college	PARASPIR	1.6	1.03	1.10	131	0.89	0.94
Very important that child's school after high school is in a low crime environment	BYP80I	88.2	3.61	3.42	90	1.12	1.06
Started a savings account for child's education after high school	BYP83A	84.8	4.96	5.83	39	0.72	0.85
SUMMARY STATISTICS							
Mean						1.49	1.20
Minimum						0.72	0.85
Median						1.41	1.19
Maximum						2.75	1.66
Standard deviation						0.51	0.20

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-5. Parent design effects – Asian

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Biological parent completed questionnaire	BYP01	83.7	1.32	1.04	1274	1.63	1.28
Student lives with you all of the time	BYP05	95.8	0.56	0.56	1271	1.00	1.00
Average number of people dependent on parent or spouse/partner	BYP06	2.9	0.08	0.05	1022	2.04	1.43
Married	BYP10	82.6	1.16	1.07	1265	1.18	1.08
Biological mother born in the U.S.	BYP17	13.3	1.82	0.96	1251	3.59	1.90
Parent's native language is English	BYP28	26.2	2.19	1.24	1268	3.13	1.77
Parent attended college, no 4-year degree	PARED	7.4	0.87	0.69	1465	1.61	1.27
Parent works full-time	BYP36	63.5	1.93	1.36	1260	2.03	1.42
Mother works in a professional occupation	OCCUMOTH	16.7	1.50	0.97	1465	2.37	1.54
Spouse/partner works full-time	BYP40	65.3	2.29	1.46	1057	2.44	1.56
Father works in a professional occupation	OCCUFATH	21.3	1.74	1.07	1465	2.66	1.63
Child changed school 1 time since first grade	BYP45	13.4	1.28	1.07	1014	1.42	1.19
Child was held back a grade	BYP46	8.5	1.02	0.88	1019	1.36	1.17
Contacted by school about participating in school fund-raising activities or doing volunteer work	BYP52H	32.4	2.26	1.48	1003	2.34	1.53
Belong to school's parent-teacher organization	BYP54A	23.7	2.08	1.34	1002	2.40	1.55
Always discuss child's report card with child	BYP55B	68.4	1.81	1.46	1012	1.54	1.24
Provided advice or information about applying to college or other schools after high school	BYP56C	76.0	1.91	1.35	996	1.99	1.41
Parent sometimes or frequently attended school activities	BYP57A	55.0	2.23	1.56	1018	2.04	1.43
Parent of child's friend did me a favor	BYP60B	53.8	2.14	1.61	961	1.77	1.33
Child has another parent living outside of home	BYP61	11.8	1.34	1.02	1011	1.75	1.32
Average number of years living in current neighborhood	BYP65	8.4	0.32	0.22	1005	2.10	1.45
Low level of crime in neighborhood	BYP67	85.4	1.52	1.12	996	1.85	1.36
Family rules enforced for doing homework	BYP69B	90.3	1.18	0.94	992	1.59	1.26
Parent and child eat at least one meal together twice a week	BYP70	6.4	0.91	0.69	1251	1.71	1.31
Computer in home for 10 th grader to use	BYP71	79.5	1.65	1.05	1465	2.44	1.56
Use computer to communicate with 10 th grader's teachers and administrative staff via E-mail about child	BYP74A	47.5	3.88	2.64	360	2.17	1.47
Child's school has a voice-messaging system	BYP75	55.1	2.24	1.56	1015	2.06	1.44
Want child to attend college	PARASPIR	1.0	0.27	0.26	1465	1.10	1.05
Very important that child's school after high school is in a low crime environment	BYP80I	83.0	1.67	1.21	958	1.89	1.37
Started a savings account for child's education after high school	BYP83A	75.1	2.43	1.86	540	1.70	1.30
SUMMARY STATISTICS							
Mean						1.96	1.39
Minimum						1.00	1.00
Median						1.94	1.39
Maximum						3.59	1.90
Standard deviation						0.57	0.20

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-6. Parent design effects – Black

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Biological parent completed questionnaire	BYP01	87.7	0.88	0.80	1703	1.21	1.10
Student lives with you all of the time	BYP05	95.0	0.63	0.53	1698	1.44	1.20
Average number of people dependent on parent or spouse/partner	BYP06	2.8	0.05	0.04	1472	1.46	1.21
Married	BYP10	48.0	1.25	1.22	1689	1.06	1.03
Biological mother born in the U.S.	BYP17	89.7	1.16	0.74	1689	2.44	1.56
Parent's native language is English	BYP28	96.1	0.59	0.47	1684	1.60	1.26
Parent attended college, no 4-year degree	PARED	14.5	0.92	0.78	2033	1.38	1.17
Parent works full-time	BYP36	68.7	1.49	1.13	1681	1.73	1.31
Mother works in a professional occupation	OCCUMOTH	13.9	0.86	0.77	2033	1.27	1.13
Spouse/partner works full-time	BYP40	78.9	1.63	1.35	912	1.45	1.20
Father works in a professional occupation	OCCUFATH	9.3	0.67	0.65	2033	1.06	1.03
Child changed school 1 time since first grade	BYP45	13.9	1.06	0.91	1458	1.38	1.17
Child was held back a grade	BYP46	21.8	1.28	1.07	1477	1.42	1.19
Contacted by school about participating in school fund-raising activities or doing volunteer work	BYP52H	31.3	1.41	1.22	1445	1.34	1.16
Belong to school's parent-teacher organization	BYP54A	21.9	1.31	1.09	1439	1.44	1.20
Always discuss child's report card with child	BYP55B	87.9	1.07	0.86	1458	1.56	1.25
Provided advice or information about applying to college or other schools after high school	BYP56C	79.0	1.28	1.08	1433	1.42	1.19
Parent sometimes or frequently attended school activities	BYP57A	67.6	1.36	1.23	1454	1.23	1.11
Parent of child's friend did me a favor	BYP60B	57.3	1.80	1.31	1419	1.88	1.37
Child has another parent living outside of home	BYP61	45.7	1.52	1.32	1434	1.33	1.15
Average number of years living in current neighborhood	BYP65	10.3	0.35	0.26	1456	1.75	1.32
Low level of crime in neighborhood	BYP67	79.4	1.24	1.06	1446	1.37	1.17
Family rules enforced for doing homework	BYP69B	95.9	0.61	0.52	1452	1.36	1.17
Parent and child eat at least one meal together twice a week	BYP70	13.0	0.97	0.82	1665	1.39	1.18
Computer in home for 10 th grader to use	BYP71	58.3	1.47	1.09	2033	1.82	1.35
Use computer to communicate with 10 th grader's teachers and administrative staff via E-mail about child	BYP74A	42.5	2.99	2.32	456	1.66	1.29
Child's school has a voice-messaging system	BYP75	56.5	1.88	1.30	1448	2.08	1.44
Want child to attend college	PARASPIR	1.0	0.24	0.23	2033	1.12	1.06
Very important that child's school after high school is in a low crime environment	BYP80I	92.2	0.86	0.72	1378	1.44	1.20
Started a savings account for child's education after high school	BYP83A	81.1	1.72	1.54	646	1.24	1.11
SUMMARY STATISTICS							
Mean						1.48	1.21
Minimum						1.06	1.03
Median						1.42	1.19
Maximum						2.44	1.56
Standard deviation						0.30	0.12

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-7. Parent design effects – Hispanic

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Biological parent completed questionnaire	BYP01	89.9	0.83	0.69	1924	1.44	1.20
Student lives with you all of the time	BYP05	94.1	0.70	0.54	1921	1.69	1.30
Average number of people dependent on parent or spouse/partner	BYP06	3.1	0.05	0.04	1821	2.19	1.48
Married	BYP10	70.2	1.22	1.05	1915	1.37	1.17
Biological mother born in the U.S.	BYP17	40.7	1.98	1.13	1902	3.08	1.75
Parent's native language is English	BYP28	41.1	1.93	1.13	1913	2.95	1.72
Parent attended college, no 4-year degree	PARED	11.5	0.87	0.68	2234	1.68	1.29
Parent works full-time	BYP36	57.0	1.44	1.14	1901	1.61	1.27
Mother works in a professional occupation	OCCUMOTH	10.1	0.75	0.64	2234	1.37	1.17
Spouse/partner works full-time	BYP40	75.1	1.39	1.12	1483	1.54	1.24
Father works in a professional occupation	OCCUFATH	7.6	0.67	0.56	2234	1.44	1.20
Child changed school 1 time since first grade	BYP45	15.6	1.02	0.85	1805	1.43	1.20
Child was held back a grade	BYP46	16.2	1.00	0.87	1809	1.33	1.15
Contacted by school about participating in school fund-raising activities or doing volunteer work	BYP52H	27.4	1.25	1.06	1775	1.39	1.18
Belong to school's parent-teacher organization	BYP54A	12.2	0.90	0.77	1789	1.35	1.16
Always discuss child's report card with child	BYP55B	84.3	1.04	0.86	1810	1.49	1.22
Provided advice or information about applying to college or other schools after high school	BYP56C	70.5	1.23	1.08	1782	1.29	1.13
Parent sometimes or frequently attended school activities	BYP57A	55.3	1.41	1.17	1809	1.45	1.20
Parent of child's friend did me a favor	BYP60B	48.9	1.50	1.19	1760	1.59	1.26
Child has another parent living outside of home	BYP61	28.0	1.38	1.06	1790	1.69	1.30
Average number of years living in current neighborhood	BYP65	8.7	0.24	0.19	1815	1.64	1.28
Low level of crime in neighborhood	BYP67	81.7	1.35	0.91	1792	2.18	1.48
Family rules enforced for doing homework	BYP69B	92.9	0.66	0.61	1803	1.19	1.09
Parent and child eat at least one meal together twice a week	BYP70	6.9	0.59	0.58	1903	1.02	1.01
Computer in home for 10 th grader to use	BYP71	63.6	1.52	1.02	2234	2.23	1.49
Use computer to communicate with 10 th grader's teachers and administrative staff via E-mail about child	BYP74A	44.5	3.26	2.40	429	1.84	1.36
Child's school has a voice-messaging system	BYP75	57.1	1.44	1.16	1815	1.54	1.24
Want child to attend college	PARASPIR	1.0	0.25	0.21	2234	1.38	1.17
Very important that child's school after high school is in a low crime environment	BYP80I	90.5	0.88	0.72	1672	1.52	1.23
Started a savings account for child's education after high school	BYP83A	74.1	2.38	1.77	611	1.81	1.35
SUMMARY STATISTICS							
Mean						1.66	1.28
Minimum						1.02	1.01
Median						1.53	1.24
Maximum						3.08	1.75
Standard deviation						0.46	0.17

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-8. Parent design effects – White

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Biological parent completed questionnaire	BYP01	94.5	0.33	0.26	7847	1.63	1.28
Student lives with you all of the time	BYP05	94.7	0.30	0.25	7814	1.39	1.18
Average number of people dependent on parent or spouse/partner	BYP06	2.5	0.02	0.01	7507	1.49	1.22
Married	BYP10	78.6	0.64	0.46	7819	1.90	1.38
Biological mother born in the U.S.	BYP17	95.0	0.38	0.25	7814	2.43	1.56
Parent's native language is English	BYP28	97.3	0.35	0.18	7765	3.67	1.92
Parent attended college, no 4-year degree	PARED	11.4	0.38	0.34	8757	1.24	1.11
Parent works full-time	BYP36	63.0	0.68	0.55	7802	1.55	1.24
Mother works in a professional occupation	OCCUMOTH	19.9	0.63	0.43	8757	2.17	1.47
Spouse/partner works full-time	BYP40	85.3	0.51	0.44	6510	1.36	1.17
Father works in a professional occupation	OCCUFATH	17.3	0.59	0.40	8757	2.09	1.45
Child changed school 1 time since first grade	BYP45	10.7	0.42	0.36	7443	1.39	1.18
Child was held back a grade	BYP46	9.9	0.45	0.35	7448	1.71	1.31
Contacted by school about participating in school fund-raising activities or doing volunteer work	BYP52H	38.4	0.84	0.56	7420	2.23	1.49
Belong to school's parent-teacher organization	BYP54A	27.9	0.99	0.52	7371	3.56	1.89
Always discuss child's report card with child	BYP55B	88.2	0.44	0.37	7454	1.40	1.18
Provided advice or information about applying to college or other schools after high school	BYP56C	73.7	0.64	0.51	7432	1.57	1.25
Parent sometimes or frequently attended school activities	BYP57A	74.4	0.68	0.50	7472	1.80	1.34
Parent of child's friend did me a favor	BYP60B	71.7	0.66	0.52	7378	1.57	1.25
Child has another parent living outside of home	BYP61	30.5	0.67	0.53	7418	1.59	1.26
Average number of years living in current neighborhood	BYP65	11.4	0.15	0.10	7467	2.21	1.49
Low level of crime in neighborhood	BYP67	92.9	0.42	0.30	7419	1.98	1.41
Family rules enforced for doing homework	BYP69B	92.3	0.36	0.31	7405	1.35	1.16
Parent and child eat at least one meal together twice a week	BYP70	8.2	0.40	0.31	7775	1.66	1.29
Computer in home for 10 th grader to use	BYP71	82.7	0.65	0.40	8757	2.55	1.60
Use computer to communicate with 10 th grader's teachers and administrative staff via E-mail about child	BYP74A	52.9	1.61	0.90	3108	3.22	1.79
Child's school has a voice-messaging system	BYP75	53.0	1.34	0.58	7440	5.38	2.32
Want child to attend college	PARASPIR	1.0	0.13	0.11	8757	1.39	1.18
Very important that child's school after high school is in a low crime environment	BYP80I	87.6	0.50	0.39	7140	1.67	1.29
Started a savings account for child's education after high school	BYP83A	76.0	0.84	0.68	3929	1.54	1.24
SUMMARY STATISTICS							
Mean						2.02	1.40
Minimum						1.24	1.11
Median						1.66	1.29
Maximum						5.38	2.32
Standard deviation						0.90	0.27

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-9. Parent design effects – Multiracial

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Biological parent completed questionnaire	BYP01	89.4	1.51	1.23	629	1.51	1.23
Student lives with you all of the time	BYP05	93.1	1.31	1.01	627	1.68	1.29
Average number of people dependent on parent or spouse/partner	BYP06	2.6	0.07	0.06	580	1.44	1.20
Married	BYP10	68.8	2.36	1.85	625	1.63	1.28
Biological mother born in the U.S.	BYP17	82.4	2.04	1.52	626	1.80	1.34
Parent's native language is English	BYP28	92.5	1.33	1.06	621	1.57	1.25
Parent attended college, no 4-year degree	PARED	15.2	1.43	1.32	742	1.18	1.09
Parent works full-time	BYP36	67.6	2.36	1.87	625	1.59	1.26
Mother works in a professional occupation	OCCUMOTH	17.3	1.65	1.39	742	1.42	1.19
Spouse/partner works full-time	BYP40	81.0	2.46	1.80	477	1.86	1.37
Father works in a professional occupation	OCCUFATH	16.6	1.58	1.37	742	1.34	1.16
Child changed school 1 time since first grade	BYP45	12.4	1.94	1.38	573	1.98	1.41
Child was held back a grade	BYP46	14.9	1.96	1.49	575	1.74	1.32
Contacted by school about participating in school fund-raising activities or doing volunteer work	BYP52H	32.3	2.39	1.97	564	1.47	1.21
Belong to school's parent-teacher organization	BYP54A	24.3	2.38	1.80	569	1.74	1.32
Always discuss child's report card with child	BYP55B	87.5	1.56	1.39	569	1.27	1.12
Provided advice or information about applying to college or other schools after high school	BYP56C	72.3	2.80	1.88	566	2.21	1.49
Parent sometimes or frequently attended school activities	BYP57A	66.6	2.39	1.97	575	1.47	1.21
Parent of child's friend did me a favor	BYP60B	61.7	2.59	2.06	557	1.58	1.26
Child has another parent living outside of home	BYP61	45.0	2.75	2.10	564	1.73	1.31
Average number of years living in current neighborhood	BYP65	10.7	0.55	0.40	577	1.89	1.37
Low level of crime in neighborhood	BYP67	81.0	2.33	1.65	570	2.01	1.42
Family rules enforced for doing homework	BYP69B	93.6	1.21	1.03	569	1.37	1.17
Parent and child eat at least one meal together twice a week	BYP70	12.4	1.91	1.33	616	2.07	1.44
Computer in home for 10 th grader to use	BYP71	71.6	1.98	1.66	742	1.42	1.19
Use computer to communicate with 10 th grader's teachers and administrative staff via E-mail about child	BYP74A	57.1	4.34	3.34	221	1.69	1.30
Child's school has a voice-messaging system	BYP75	54.0	2.66	2.08	573	1.63	1.28
Want child to attend college	PARASPIR	0.9	0.36	0.34	742	1.09	1.05
Very important that child's school after high school is in a low crime environment	BYP80I	89.2	1.74	1.33	548	1.72	1.31
Started a savings account for child's education after high school	BYP83A	69.5	3.41	2.70	291	1.59	1.26
SUMMARY STATISTICS							
Mean						1.62	1.27
Minimum						1.09	1.05
Median						1.61	1.27
Maximum						2.21	1.49
Standard deviation						0.26	0.10

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

K-10. Parent design effects – public

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Biological parent completed questionnaire	BYP01	91.8	0.31	0.27	10518	1.31	1.14
Student lives with you all of the time	BYP05	94.6	0.26	0.22	10484	1.35	1.16
Average number of people dependent on parent or spouse/partner	BYP06	2.7	0.02	0.01	9692	1.96	1.40
Married	BYP10	71.6	0.55	0.44	10463	1.55	1.24
Biological mother born in the U.S.	BYP17	81.6	0.73	0.38	10434	3.68	1.92
Parent's native language is English	BYP28	84.5	0.73	0.35	10421	4.20	2.05
Parent attended college, no 4-year degree	PARED	12.1	0.34	0.30	12039	1.30	1.14
Parent works full-time	BYP36	63.6	0.56	0.47	10429	1.43	1.20
Mother works in a professional occupation	OCCUMOTH	16.5	0.49	0.34	12039	2.08	1.44
Spouse/partner works full-time	BYP40	81.8	0.57	0.43	8001	1.75	1.32
Father works in a professional occupation	OCCUFATH	13.5	0.46	0.31	12039	2.17	1.47
Child changed school 1 time since first grade	BYP45	12.0	0.38	0.33	9603	1.32	1.15
Child was held back a grade	BYP46	13.1	0.43	0.34	9644	1.56	1.25
Contacted by school about participating in school fund-raising activities or doing volunteer work	BYP52H	32.3	0.68	0.48	9533	2.00	1.42
Belong to school's parent-teacher organization	BYP54A	22.5	0.79	0.43	9514	3.37	1.83
Always discuss child's report card with child	BYP55B	86.6	0.40	0.35	9616	1.31	1.15
Provided advice or information about applying to college or other schools after high school	BYP56C	73.2	0.54	0.45	9535	1.39	1.18
Parent sometimes or frequently attended school activities	BYP57A	68.2	0.60	0.47	9633	1.61	1.27
Parent of child's friend did me a favor	BYP60B	63.7	0.65	0.50	9420	1.71	1.31
Child has another parent living outside of home	BYP61	33.3	0.58	0.48	9528	1.45	1.20
Average number of years living in current neighborhood	BYP65	10.6	0.13	0.09	9621	1.96	1.40
Low level of crime in neighborhood	BYP67	88.4	0.51	0.33	9560	2.42	1.55
Family rules enforced for doing homework	BYP69B	92.9	0.30	0.26	9560	1.33	1.15
Parent and child eat at least one meal together twice a week	BYP70	8.9	0.34	0.28	10395	1.51	1.23
Computer in home for 10 th grader to use	BYP71	74.4	0.65	0.40	12039	2.67	1.63
Use computer to communicate with 10 th grader's teachers and administrative staff via E-mail about child	BYP74A	50.9	1.45	0.87	3278	2.77	1.67
Child's school has a voice-messaging system	BYP75	52.9	1.09	0.51	9609	4.55	2.13
Want child to attend college	PARASPIR	1.1	0.10	0.09	12039	1.13	1.06
Very important that child's school after high school is in a low crime environment	BYP80I	88.6	0.40	0.33	9059	1.43	1.20
Started a savings account for child's education after high school	BYP83A	76.3	0.76	0.65	4303	1.39	1.18
SUMMARY STATISTICS							
Mean						1.99	1.38
Minimum						1.13	1.06
Median						1.59	1.26
Maximum						4.55	2.13
Standard deviation						0.90	0.29

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

K-11. Parent design effects – Catholic

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Biological parent completed questionnaire	BYP01	94.9	0.58	0.53	1746	1.21	1.10
Student lives with you all of the time	BYP05	96.3	0.52	0.45	1742	1.31	1.14
Average number of people dependent on parent or spouse/partner	BYP06	2.6	0.05	0.03	1661	2.28	1.51
Married	BYP10	84.5	0.93	0.87	1740	1.14	1.07
Biological mother born in the U.S.	BYP17	87.1	1.34	0.80	1737	2.79	1.67
Parent's native language is English	BYP28	91.7	1.32	0.66	1730	3.99	2.00
Parent attended college, no 4-year degree	PARED	12.0	0.82	0.74	1920	1.22	1.10
Parent works full-time	BYP36	59.2	1.53	1.18	1737	1.69	1.30
Mother works in a professional occupation	OCCUMOTH	28.0	1.30	1.03	1920	1.60	1.26
Spouse/partner works full-time	BYP40	85.2	1.07	0.92	1476	1.34	1.16
Father works in a professional occupation	OCCUFATH	26.1	1.45	1.00	1920	2.10	1.45
Child changed school 1 time since first grade	BYP45	11.8	0.88	0.79	1647	1.23	1.11
Child was held back a grade	BYP46	5.2	0.66	0.55	1643	1.46	1.21
Contacted by school about participating in school fund-raising activities or doing volunteer work	BYP52H	65.0	1.72	1.18	1638	2.14	1.46
Belong to school's parent-teacher organization	BYP54A	40.5	2.03	1.22	1624	2.78	1.67
Always discuss child's report card with child	BYP55B	90.7	0.99	0.71	1645	1.93	1.39
Provided advice or information about applying to college or other schools after high school	BYP56C	81.5	1.36	0.96	1638	2.00	1.41
Parent sometimes or frequently attended school activities	BYP57A	82.7	1.21	0.93	1651	1.69	1.30
Parent of child's friend did me a favor	BYP60B	82.0	1.36	0.95	1625	2.03	1.43
Child has another parent living outside of home	BYP61	17.7	1.03	0.94	1652	1.20	1.10
Average number of years living in current neighborhood	BYP65	12.9	0.30	0.22	1650	1.88	1.37
Low level of crime in neighborhood	BYP67	89.2	0.99	0.77	1625	1.64	1.28
Family rules enforced for doing homework	BYP69B	95.1	0.63	0.53	1623	1.40	1.18
Parent and child eat at least one meal together twice a week	BYP70	7.4	0.71	0.63	1727	1.27	1.13
Computer in home for 10 th grader to use	BYP71	89.6	1.03	0.70	1920	2.17	1.47
Use computer to communicate with 10 th grader's teachers and administrative staff via E-mail about child	BYP74A	45.1	3.20	1.79	771	3.18	1.78
Child's school has a voice-messaging system	BYP75	72.4	2.75	1.10	1645	6.24	2.50
Want child to attend college	PARASPIR	0.2	0.09	0.09	1920	0.88	0.94
Very important that child's school after high school is in a low crime environment	BYP80I	87.1	0.74	0.84	1613	0.78	0.89
Started a savings account for child's education after high school	BYP83A	75.5	1.32	1.33	1045	0.99	0.99
SUMMARY STATISTICS							
Mean						1.92	1.35
Minimum						0.78	0.89
Median						1.67	1.29
Maximum						6.24	2.50
Standard deviation						1.08	0.33

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

K-12. Parent design effects – other private

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Biological parent completed questionnaire	BYP01	95.1	0.64	0.62	1223	1.06	1.03
Student lives with you all of the time	BYP05	93.1	0.98	0.73	1214	1.81	1.34
Average number of people dependent on parent or spouse/partner	BYP06	2.5	0.07	0.04	1152	3.09	1.76
Married	BYP10	85.3	1.25	1.02	1219	1.52	1.23
Biological mother born in the U.S.	BYP17	84.6	2.44	1.03	1220	5.58	2.36
Parent's native language is English	BYP28	89.6	2.07	0.88	1210	5.59	2.37
Parent attended college, no 4-year degree	PARED	7.8	0.86	0.71	1403	1.44	1.20
Parent works full-time	BYP36	54.9	2.09	1.43	1212	2.15	1.46
Mother works in a professional occupation	OCCUMOTH	25.7	1.94	1.17	1403	2.76	1.66
Spouse/partner works full-time	BYP40	83.4	1.28	1.16	1035	1.23	1.11
Father works in a professional occupation	OCCUFATH	36.0	2.02	1.28	1403	2.49	1.58
Child changed school 1 time since first grade	BYP45	15.3	1.52	1.06	1144	2.03	1.42
Child was held back a grade	BYP46	9.1	0.83	0.85	1143	0.97	0.98
Contacted by school about participating in school fund-raising activities or doing volunteer work	BYP52H	72.6	2.01	1.32	1137	2.31	1.52
Belong to school's parent-teacher organization	BYP54A	47.6	2.51	1.48	1133	2.85	1.69
Always discuss child's report card with child	BYP55B	84.9	1.58	1.06	1143	2.23	1.49
Provided advice or information about applying to college or other schools after high school	BYP56C	77.6	1.63	1.24	1137	1.74	1.32
Parent sometimes or frequently attended school activities	BYP57A	85.3	1.59	1.05	1144	2.30	1.52
Parent of child's friend did me a favor	BYP60B	83.1	1.26	1.12	1131	1.28	1.13
Child has another parent living outside of home	BYP61	18.0	1.79	1.14	1136	2.46	1.57
Average number of years living in current neighborhood	BYP65	10.5	0.45	0.23	1147	3.66	1.91
Low level of crime in neighborhood	BYP67	92.4	1.19	0.79	1138	2.28	1.51
Family rules enforced for doing homework	BYP69B	88.6	0.98	0.94	1137	1.08	1.04
Parent and child eat at least one meal together twice a week	BYP70	5.9	0.78	0.68	1194	1.30	1.14
Computer in home for 10 th grader to use	BYP71	81.9	1.92	1.03	1403	3.48	1.87
Use computer to communicate with 10 th grader's teachers and administrative staff via E-mail about child	BYP74A	60.9	4.23	2.09	546	4.09	2.02
Child's school has a voice-messaging system	BYP75	61.5	4.09	1.44	1138	8.03	2.83
Want child to attend college	PARASPIR	1.0	0.43	0.27	1403	2.57	1.60
Very important that child's school after high school is in a low crime environment	BYP80I	87.8	1.37	0.98	1114	1.94	1.39
Started a savings account for child's education after high school	BYP83A	74.1	2.58	1.65	708	2.44	1.56
SUMMARY STATISTICS							
Mean						2.59	1.55
Minimum						0.97	0.98
Median						2.29	1.51
Maximum						8.03	2.83
Standard deviation						1.55	0.43

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K–13. Parent design effects – low socioeconomic status (SES) quartile

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Biological parent completed questionnaire	BYP01	89.1	0.66	0.56	3104	1.42	1.19
Student lives with you all of the time	BYP05	93.6	0.51	0.44	3096	1.36	1.17
Average number of people dependent on parent or spouse/partner	BYP06	2.9	0.04	0.03	2755	1.99	1.41
Married	BYP10	59.1	1.09	0.89	3082	1.52	1.23
Biological mother born in the U.S.	BYP17	66.0	1.76	0.86	3070	4.23	2.06
Parent's native language is English	BYP28	67.9	1.79	0.84	3073	4.52	2.13
Parent attended college, no 4-year degree	PARED	7.2	0.49	0.43	3635	1.33	1.16
Parent works full-time	BYP36	51.0	1.10	0.90	3066	1.47	1.21
Mother works in a professional occupation	OCCUMOTH	1.6	0.24	0.21	3635	1.29	1.14
Spouse/partner works full-time	BYP40	69.4	1.33	1.01	2089	1.73	1.31
Father works in a professional occupation	OCCUFATH	1.2	0.24	0.18	3635	1.69	1.30
Child changed school 1 time since first grade	BYP45	12.4	0.76	0.63	2712	1.44	1.20
Child was held back a grade	BYP46	21.8	0.97	0.79	2744	1.52	1.23
Contacted by school about participating in school fund-raising activities or doing volunteer work	BYP52H	24.0	0.92	0.82	2685	1.24	1.12
Belong to school's parent-teacher organization	BYP54A	9.1	0.65	0.55	2701	1.39	1.18
Always discuss child's report card with child	BYP55B	81.8	0.86	0.74	2734	1.35	1.16
Provided advice or information about applying to college or other schools after high school	BYP56C	65.0	1.06	0.92	2678	1.31	1.14
Parent sometimes or frequently attended school activities	BYP57A	53.8	1.11	0.95	2728	1.34	1.16
Parent of child's friend did me a favor	BYP60B	51.8	1.20	0.97	2645	1.54	1.24
Child has another parent living outside of home	BYP61	36.3	1.15	0.93	2675	1.54	1.24
Average number of years living in current neighborhood	BYP65	10.4	0.24	0.19	2732	1.56	1.25
Low level of crime in neighborhood	BYP67	80.6	1.12	0.76	2704	2.15	1.47
Family rules enforced for doing homework	BYP69B	91.5	0.61	0.54	2701	1.28	1.13
Parent and child eat at least one meal together twice a week	BYP70	8.3	0.57	0.50	3053	1.28	1.13
Computer in home for 10 th grader to use	BYP71	56.4	1.03	0.82	3635	1.57	1.25
Use computer to communicate with 10 th grader's teachers and administrative staff via E-mail about child	BYP74A	36.5	2.72	2.28	447	1.42	1.19
Child's school has a voice-messaging system	BYP75	51.0	1.25	0.96	2728	1.71	1.31
Want child to attend college	PARASPIR	1.7	0.23	0.21	3635	1.14	1.07
Very important that child's school after high school is in a low crime environment	BYP80I	90.0	0.69	0.61	2407	1.26	1.12
Started a savings account for child's education after high school	BYP83A	72.2	2.28	1.75	659	1.71	1.31
SUMMARY STATISTICS							
Mean						1.68	1.27
Minimum						1.14	1.07
Median						1.46	1.21
Maximum						4.52	2.13
Standard deviation						0.77	0.24

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-14. Parent design effects – middle socioeconomic status (SES) quartiles

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Biological parent completed questionnaire	BYP01	92.3	0.41	0.33	6399	1.54	1.24
Student lives with you all of the time	BYP05	95.0	0.36	0.27	6373	1.74	1.32
Average number of people dependent on parent or spouse/partner	BYP06	2.6	0.02	0.02	5949	1.49	1.22
Married	BYP10	71.6	0.66	0.57	6364	1.36	1.17
Biological mother born in the U.S.	BYP17	87.4	0.52	0.42	6359	1.56	1.25
Parent's native language is English	BYP28	90.3	0.50	0.37	6346	1.80	1.34
Parent attended college, no 4-year degree	PARED	18.4	0.51	0.45	7388	1.27	1.13
Parent works full-time	BYP36	68.5	0.69	0.58	6348	1.39	1.18
Mother works in a professional occupation	OCCUMOTH	14.4	0.49	0.41	7388	1.46	1.21
Spouse/partner works full-time	BYP40	84.9	0.61	0.51	4895	1.41	1.19
Father works in a professional occupation	OCCUFATH	8.6	0.38	0.33	7388	1.35	1.16
Child changed school 1 time since first grade	BYP45	11.9	0.48	0.42	5900	1.30	1.14
Child was held back a grade	BYP46	12.1	0.51	0.42	5917	1.47	1.21
Contacted by school about participating in school fund-raising activities or doing volunteer work	BYP52H	32.4	0.81	0.61	5857	1.74	1.32
Belong to school's parent-teacher organization	BYP54A	21.2	0.73	0.53	5849	1.85	1.36
Always discuss child's report card with child	BYP55B	87.6	0.51	0.43	5908	1.40	1.18
Provided advice or information about applying to college or other schools after high school	BYP56C	73.4	0.66	0.58	5867	1.32	1.15
Parent sometimes or frequently attended school activities	BYP57A	70.7	0.79	0.59	5919	1.77	1.33
Parent of child's friend did me a favor	BYP60B	64.8	0.79	0.63	5800	1.60	1.27
Child has another parent living outside of home	BYP61	35.7	0.76	0.63	5868	1.48	1.22
Average number of years living in current neighborhood	BYP65	10.9	0.17	0.12	5914	2.05	1.43
Low level of crime in neighborhood	BYP67	88.7	0.57	0.41	5866	1.87	1.37
Family rules enforced for doing homework	BYP69B	93.8	0.35	0.31	5871	1.24	1.11
Parent and child eat at least one meal together twice a week	BYP70	9.0	0.47	0.36	6329	1.67	1.29
Computer in home for 10 th grader to use	BYP71	77.2	0.71	0.49	7388	2.10	1.45
Use computer to communicate with 10 th grader's teachers and administrative staff via E-mail about child	BYP74A	46.2	1.59	1.09	2103	2.14	1.46
Child's school has a voice-messaging system	BYP75	52.5	1.21	0.65	5892	3.46	1.86
Want child to attend college	PARASPIR	1.0	0.14	0.12	7388	1.36	1.17
Very important that child's school after high school is in a low crime environment	BYP80I	90.1	0.45	0.40	5678	1.28	1.13
Started a savings account for child's education after high school	BYP83A	77.0	0.92	0.81	2718	1.30	1.14
SUMMARY STATISTICS							
Mean						1.63	1.27
Minimum						1.24	1.11
Median						1.48	1.22
Maximum						3.46	1.86
Standard deviation						0.43	0.15

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K–15. Parent design effects – high socioeconomic status (SES) quartile

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Biological parent completed questionnaire	BYP01	94.4	0.49	0.36	3984	1.83	1.35
Student lives with you all of the time	BYP05	94.8	0.47	0.35	3971	1.74	1.32
Average number of people dependent on parent or spouse/partner	BYP06	2.6	0.02	0.02	3801	1.58	1.26
Married	BYP10	87.2	0.70	0.53	3976	1.76	1.33
Biological mother born in the U.S.	BYP17	86.4	0.75	0.54	3962	1.89	1.37
Parent's native language is English	BYP28	91.0	0.68	0.46	3942	2.22	1.49
Parent attended college, no 4-year degree	PARED	3.7	0.37	0.29	4339	1.63	1.28
Parent works full-time	BYP36	64.1	1.14	0.76	3964	2.24	1.50
Mother works in a professional occupation	OCCUMOTH	38.6	0.95	0.74	4339	1.63	1.28
Spouse/partner works full-time	BYP40	86.1	0.77	0.58	3528	1.76	1.33
Father works in a professional occupation	OCCUFATH	40.6	1.00	0.75	4339	1.81	1.35
Child changed school 1 time since first grade	BYP45	12.2	0.72	0.53	3782	1.86	1.36
Child was held back a grade	BYP46	5.5	0.50	0.37	3769	1.81	1.34
Contacted by school about participating in school fund-raising activities or doing volunteer work	BYP52H	50.0	1.21	0.81	3766	2.21	1.49
Belong to school's parent-teacher organization	BYP54A	43.2	1.45	0.81	3721	3.20	1.79
Always discuss child's report card with child	BYP55B	89.4	0.59	0.50	3762	1.36	1.17
Provided advice or information about applying to college or other schools after high school	BYP56C	82.1	0.82	0.63	3765	1.71	1.31
Parent sometimes or frequently attended school activities	BYP57A	80.8	0.83	0.64	3781	1.66	1.29
Parent of child's friend did me a favor	BYP60B	77.7	0.83	0.68	3731	1.48	1.21
Child has another parent living outside of home	BYP61	21.8	0.94	0.67	3773	1.94	1.39
Average number of years living in current neighborhood	BYP65	10.6	0.17	0.12	3772	1.95	1.39
Low level of crime in neighborhood	BYP67	95.4	0.49	0.34	3753	2.08	1.44
Family rules enforced for doing homework	BYP69B	92.3	0.55	0.44	3748	1.59	1.26
Parent and child eat at least one meal together twice a week	BYP70	8.6	0.52	0.45	3934	1.35	1.16
Computer in home for 10 th grader to use	BYP71	90.2	0.62	0.45	4339	1.89	1.37
Use computer to communicate with 10 th grader's teachers and administrative staff via E-mail about child	BYP74A	60.6	1.81	1.08	2045	2.79	1.67
Child's school has a voice-messaging system	BYP75	59.8	1.49	0.80	3772	3.48	1.87
Want child to attend college	PARASPIR	0.4	0.12	0.09	4339	1.66	1.29
Very important that child's school after high school is in a low crime environment	BYP80I	84.5	0.81	0.59	3701	1.84	1.35
Started a savings account for child's education after high school	BYP83A	76.3	1.03	0.82	2679	1.57	1.25
SUMMARY STATISTICS							
Mean						1.92	1.38
Minimum						1.35	1.16
Median						1.81	1.34
Maximum						3.48	1.87
Standard deviation						0.48	0.16

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

K-16. Parent design effects – urban

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Biological parent completed questionnaire	BYP01	90.7	0.53	0.44	4446	1.47	1.21
Student lives with you all of the time	BYP05	94.5	0.48	0.34	4432	1.94	1.39
Average number of people dependent on parent or spouse/partner	BYP06	2.8	0.04	0.02	4027	3.45	1.86
Married	BYP10	67.0	1.08	0.71	4419	2.32	1.52
Biological mother born in the U.S.	BYP17	71.9	1.64	0.68	4411	5.88	2.43
Parent's native language is English	BYP28	76.1	1.64	0.64	4404	6.50	2.55
Parent attended college, no 4-year degree	PARED	12.6	0.65	0.46	5115	1.97	1.40
Parent works full-time	BYP36	62.3	0.94	0.73	4402	1.65	1.28
Mother works in a professional occupation	OCCUMOTH	17.3	0.81	0.53	5115	2.36	1.54
Spouse/partner works full-time	BYP40	79.5	1.12	0.70	3292	2.54	1.59
Father works in a professional occupation	OCCUFATH	15.7	0.73	0.51	5115	2.08	1.44
Child changed school 1 time since first grade	BYP45	14.0	0.77	0.55	3993	1.99	1.41
Child was held back a grade	BYP46	13.8	0.81	0.54	4007	2.19	1.48
Contacted by school about participating in school fund-raising activities or doing volunteer work	BYP52H	36.7	1.22	0.77	3936	2.54	1.59
Belong to school's parent-teacher organization	BYP54A	25.8	1.24	0.70	3939	3.16	1.78
Always discuss child's report card with child	BYP55B	86.0	0.65	0.55	3982	1.38	1.17
Provided advice or information about applying to college or other schools after high school	BYP56C	75.4	1.00	0.69	3953	2.13	1.46
Parent sometimes or frequently attended school activities	BYP57A	65.8	1.04	0.75	3999	1.91	1.38
Parent of child's friend did me a favor	BYP60B	60.5	1.18	0.78	3893	2.27	1.51
Child has another parent living outside of home	BYP61	31.7	1.00	0.74	3966	1.85	1.36
Average number of years living in current neighborhood	BYP65	10.0	0.19	0.13	4001	2.17	1.47
Low level of crime in neighborhood	BYP67	81.3	1.15	0.62	3949	3.42	1.85
Family rules enforced for doing homework	BYP69B	92.8	0.54	0.41	3948	1.70	1.30
Parent and child eat at least one meal together twice a week	BYP70	8.9	0.53	0.43	4373	1.49	1.22
Computer in home for 10 th grader to use	BYP71	70.3	1.28	0.64	5115	4.02	2.01
Use computer to communicate with 10 th grader's teachers and administrative staff via E-mail about child	BYP74A	49.5	2.59	1.29	1498	4.02	2.00
Child's school has a voice-messaging system	BYP75	57.7	1.59	0.78	3989	4.14	2.03
Want child to attend college	PARASPIR	0.9	0.16	0.13	5115	1.46	1.21
Very important that child's school after high school is in a low crime environment	BYP80I	87.1	0.77	0.54	3819	2.03	1.42
Started a savings account for child's education after high school	BYP83A	75.9	1.34	0.95	2016	1.98	1.41
SUMMARY STATISTICS							
Mean						2.60	1.58
Minimum						1.38	1.17
Median						2.15	1.47
Maximum						6.50	2.55
Standard deviation						1.25	0.34

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K–17. Parent design effects –suburban

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Biological parent completed questionnaire	BYP01	93.0	0.41	0.32	6507	1.68	1.29
Student lives with you all of the time	BYP05	94.8	0.32	0.27	6490	1.35	1.16
Average number of people dependent on parent or spouse/partner	BYP06	2.6	0.02	0.02	6068	1.78	1.33
Married	BYP10	75.2	0.66	0.54	6477	1.52	1.23
Biological mother born in the U.S.	BYP17	83.4	0.84	0.46	6458	3.26	1.81
Parent's native language is English	BYP28	86.2	0.85	0.43	6447	3.89	1.97
Parent attended college, no 4-year degree	PARED	11.2	0.40	0.37	7399	1.20	1.10
Parent works full-time	BYP36	62.7	0.79	0.60	6465	1.73	1.32
Mother works in a professional occupation	OCCUMOTH	17.8	0.68	0.44	7399	2.35	1.53
Spouse/partner works full-time	BYP40	82.9	0.73	0.52	5212	1.96	1.40
Father works in a professional occupation	OCCUFATH	15.7	0.70	0.42	7399	2.75	1.66
Child changed school 1 time since first grade	BYP45	11.9	0.49	0.42	6012	1.35	1.16
Child was held back a grade	BYP46	11.6	0.53	0.41	6029	1.63	1.27
Contacted by school about participating in school fund-raising activities or doing volunteer work	BYP52H	34.6	0.94	0.61	5993	2.34	1.53
Belong to school's parent-teacher organization	BYP54A	24.5	1.11	0.56	5964	3.97	1.99
Always discuss child's report card with child	BYP55B	87.1	0.53	0.43	6026	1.48	1.22
Provided advice or information about applying to college or other schools after high school	BYP56C	73.5	0.70	0.57	5990	1.53	1.24
Parent sometimes or frequently attended school activities	BYP57A	69.8	0.81	0.59	6032	1.89	1.37
Parent of child's friend did me a favor	BYP60B	66.9	0.89	0.61	5922	2.10	1.45
Child has another parent living outside of home	BYP61	30.8	0.75	0.60	5987	1.58	1.26
Average number of years living in current neighborhood	BYP65	10.7	0.15	0.11	6031	1.82	1.35
Low level of crime in neighborhood	BYP67	90.5	0.62	0.38	5992	2.64	1.62
Family rules enforced for doing homework	BYP69B	93.2	0.39	0.33	5994	1.46	1.21
Parent and child eat at least one meal together twice a week	BYP70	8.9	0.49	0.36	6430	1.88	1.37
Computer in home for 10 th grader to use	BYP71	77.5	0.81	0.49	7399	2.81	1.68
Use computer to communicate with 10 th grader's teachers and administrative staff via E-mail about child	BYP74A	53.5	1.88	1.04	2293	3.25	1.80
Child's school has a voice-messaging system	BYP75	55.9	1.34	0.64	6012	4.40	2.10
Want child to attend college	PARASPIR	1.0	0.13	0.12	7399	1.31	1.14
Very important that child's school after high school is in a low crime environment	BYP80I	88.4	0.53	0.42	5698	1.57	1.25
Started a savings account for child's education after high school	BYP83A	76.7	0.97	0.77	2989	1.58	1.26
SUMMARY STATISTICS							
Mean						2.14	1.44
Minimum						1.20	1.10
Median						1.80	1.34
Maximum						4.40	2.10
Standard deviation						0.86	0.27

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-18. Parent design effects –rural

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Biological parent completed questionnaire	BYP01	92.0	0.54	0.54	2534	1.00	1.00
Student lives with you all of the time	BYP05	94.1	0.56	0.47	2518	1.40	1.18
Average number of people dependent on parent or spouse/partner	BYP06	2.5	0.03	0.03	2410	1.25	1.12
Married	BYP10	74.5	1.17	0.87	2526	1.83	1.35
Biological mother born in the U.S.	BYP17	92.8	0.66	0.51	2522	1.65	1.28
Parent's native language is English	BYP28	95.1	0.55	0.43	2510	1.62	1.27
Parent attended college, no 4-year degree	PARED	12.6	0.72	0.62	2848	1.33	1.15
Parent works full-time	BYP36	65.1	1.04	0.95	2511	1.19	1.09
Mother works in a professional occupation	OCCUMOTH	15.9	0.97	0.68	2848	2.02	1.42
Spouse/partner works full-time	BYP40	83.1	0.92	0.84	2008	1.22	1.11
Father works in a professional occupation	OCCUFATH	10.9	0.75	0.58	2848	1.64	1.28
Child changed school 1 time since first grade	BYP45	9.9	0.62	0.61	2389	1.02	1.01
Child was held back a grade	BYP46	13.6	0.91	0.70	2394	1.68	1.30
Contacted by school about participating in school fund-raising activities or doing volunteer work	BYP52H	34.6	1.30	0.98	2379	1.78	1.33
Belong to school's parent-teacher organization	BYP54A	21.3	1.62	0.84	2368	3.73	1.93
Always discuss child's report card with child	BYP55B	86.8	0.87	0.69	2396	1.60	1.26
Provided advice or information about applying to college or other schools after high school	BYP56C	72.1	0.98	0.92	2367	1.12	1.06
Parent sometimes or frequently attended school activities	BYP57A	73.5	1.24	0.90	2397	1.88	1.37
Parent of child's friend did me a favor	BYP60B	67.5	1.05	0.96	2361	1.19	1.09
Child has another parent living outside of home	BYP61	35.9	1.20	0.99	2363	1.47	1.21
Average number of years living in current neighborhood	BYP65	11.6	0.34	0.20	2386	2.94	1.71
Low level of crime in neighborhood	BYP67	93.9	0.69	0.49	2382	2.00	1.41
Family rules enforced for doing homework	BYP69B	92.2	0.61	0.55	2378	1.23	1.11
Parent and child eat at least one meal together twice a week	BYP70	8.2	0.66	0.55	2513	1.47	1.21
Computer in home for 10 th grader to use	BYP71	77.5	1.07	0.78	2848	1.87	1.37
Use computer to communicate with 10 th grader's teachers and administrative staff via E-mail about child	BYP74A	46.2	2.59	1.76	804	2.16	1.47
Child's school has a voice-messaging system	BYP75	44.7	3.03	1.02	2391	8.85	2.98
Want child to attend college	PARASPIR	1.2	0.21	0.20	2848	1.11	1.05
Very important that child's school after high school is in a low crime environment	BYP80I	90.7	0.60	0.61	2269	0.98	0.99
Started a savings account for child's education after high school	BYP83A	75.1	1.46	1.33	1051	1.20	1.09
SUMMARY STATISTICS							
Mean						1.85	1.31
Minimum						0.98	0.99
Median						1.53	1.24
Maximum						8.85	2.98
Standard deviation						1.45	0.38

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K–19. School design effects – all

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
School enrollment is between 1,000 - 1,199 students	BYSCENP	5.5	1.04	0.91	630	1.31	1.15
Ninth grade included in school	BYSPANP	68.1	3.38	1.71	743	3.91	1.98
Year round school	BYA03E	4.4	1.48	0.76	737	3.82	1.96
Offer differentiated courses in core curriculum but students have open access to any course	BYA04	53.1	3.39	1.97	643	2.96	1.72
Semester system	BYA06	70.0	3.07	1.79	653	2.93	1.71
Average number of days in school year for 10 th graders	BYA07	179.4	0.19	0.14	735	1.97	1.41
Average number of class periods in school day for 10 th graders	BYA08	6.3	0.08	0.06	736	2.27	1.51
Average number of minutes of class period for 10 th graders	BYA09	59.2	1.01	0.67	738	2.30	1.52
Average size of full academic class load for 10 th graders	BYA10	6.2	0.09	0.05	652	3.01	1.74
School is co-educational	BYA11	97.3	0.53	0.60	740	0.77	0.88
Average percentage of students participating in alcohol/drug prevention program	BYA12G	50.8	2.86	1.67	524	2.93	1.71
Parents not notified when students are absent without excuse	BYA13	5.8	1.41	0.92	647	2.35	1.53
Average number of 10 th graders in a special education program	BYA14E	8.8	0.69	0.37	698	3.41	1.85
No vocational-technical programs or services offered	BYA16	25.7	2.73	1.72	648	2.52	1.59
	BYA19CA						
	AND						
Basketball offered for male or female students	BYA19CB	96.5	1.46	0.74	611	3.88	1.97
Average percentage of 10 th graders with limited English proficiency	BYA20	2.3	0.34	0.24	713	2.02	1.42
21 - 30 percentage of 10 th graders receiving free or reduced-price lunch	BY10FLP	14.2	2.32	1.34	685	3.03	1.74
31 - 45 full-time teachers	BYFTTP	15.0	2.23	1.34	713	2.78	1.67
Average number of part-time teachers	BYA22B	4.0	0.38	0.19	687	3.93	1.98
Average number of full-time math teachers	BYA23A	5.0	0.21	0.18	632	1.37	1.17
Average percentage of full-time teachers who are certified	BYA24A	87.7	1.78	0.97	721	3.38	1.84
Average percentage of certified full-time teachers teaching outside their field	BYA25A	4.9	0.97	0.60	603	2.58	1.61
Average lowest annual salary for full-time teachers	BYA26A	25711.6	417.13	252.93	590	2.72	1.65
Good teachers are given priority on requests for materials	BYA28E	3.4	1.20	0.71	643	2.83	1.68
Content standards for academic subjects linked to performance standards for assessment of students' mastery of content	BYA31	82.6	2.43	1.53	615	2.52	1.59
Students not required to pass minimum competency or proficiency test to receive high school diploma	BYA32	49.6	3.07	1.96	652	2.45	1.57
Performance of students on standardized tests has great deal of influence on how principal's performance is evaluated	BYA48A	50.3	3.39	2.02	614	2.82	1.68
Learning of 10 th graders hindered not at all by lack of discipline and safety	BYA50J	58.5	3.54	1.99	616	3.17	1.78
Library media center is centralized	BYL01	92.6	1.96	0.98	708	3.96	1.99
Parents not allowed to check out materials from the library media center	BYL28	27.8	2.92	1.70	698	2.95	1.72
SUMMARY STATISTICS							
Mean						2.76	1.64
Minimum						0.77	0.88
Median						2.83	1.68
Maximum						3.96	1.99
Standard deviation						0.78	0.26

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-20. School design effects –public

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
School enrollment is between 1,000 - 1,199 students	BYSCENP	5.6	0.85	1.05	483	0.65	0.81
Ninth grade included in school	BYSPANP	80.2	4.21	1.67	572	6.37	2.52
Year round school	BYA03E	2.8	1.11	0.69	569	2.55	1.60
Offer differentiated courses in core curriculum but students have open access to any course	BYA04	62.4	3.96	2.18	494	3.29	1.81
Semester system	BYA06	77.5	3.25	1.87	502	3.04	1.74
Average number of days in school year for 10 th graders	BYA07	179.5	0.21	0.14	566	2.21	1.49
Average number of class periods in school day for 10 th graders	BYA08	6.2	0.10	0.07	567	2.38	1.54
Average number of minutes of class period for 10 th graders	BYA09	62.0	1.31	0.81	568	2.61	1.62
Average size of full academic class load for 10 th graders	BYA10	6.2	0.10	0.06	502	3.07	1.75
School is co-educational	BYA11	99.9	0.11	0.14	569	0.65	0.80
Average percentage of students participating in alcohol/drug prevention program	BYA12G	46.7	3.26	1.82	412	3.20	1.79
Parents not notified when students are absent without excuse	BYA13	5.7	1.45	1.04	494	1.92	1.39
Average number of 10 th graders in a special education program	BYA14E	11.3	0.86	0.41	539	4.30	2.07
No vocational-technical programs or services offered	BYA16	11.8	2.62	1.44	500	3.30	1.82
	BYA19CA and						
Basketball offered for male or female students	BYA19CB	98.4	0.93	0.56	496	2.75	1.66
Average percentage of 10 th graders with limited English proficiency	BYA20	2.4	0.32	0.27	545	1.33	1.15
21 - 30 percentage of 10 th graders receiving free or reduced-price lunch	BY10FLP	19.5	3.12	1.74	517	3.20	1.79
31 - 45 full-time teachers	BYFTTP	15.9	2.69	1.56	550	2.98	1.73
Average number of part-time teachers	BYA22B	3.8	0.49	0.23	524	4.37	2.09
Average number of full-time math teachers	BYA23A	5.7	0.28	0.22	483	1.58	1.26
Average percentage of full-time teachers who are certified	BYA24A	96.6	1.11	0.46	562	5.93	2.44
Average percentage of certified full-time teachers teaching outside their field	BYA25A	4.8	1.16	0.70	469	2.73	1.65
Average lowest annual salary for full-time teachers	BYA26A	27481.8	284.48	205.26	457	1.92	1.39
Good teachers are given priority on requests for materials	BYA28E	1.8	0.67	0.60	492	1.26	1.12
Content standards for academic subjects linked to performance standards for assessment of students' mastery of content	BYA31	88.9	2.48	1.43	482	2.98	1.73
Students not required to pass minimum competency or proficiency test to receive high school diploma	BYA32	43.6	3.31	2.22	500	2.23	1.49
Performance of students on standardized tests has great deal of influence on how principal's performance is evaluated	BYA48A	56.8	3.85	2.28	473	2.84	1.69
Learning of 10 th graders hindered not at all by lack of discipline and safety	BYA50J	52.7	4.12	2.30	474	3.23	1.80
Library media center is centralized	BYL01	96.4	1.57	0.79	554	3.91	1.98
Parents not allowed to check out materials from the library media center	BYL28	27.6	3.35	1.91	547	3.06	1.75
SUMMARY STATISTICS							
Mean						2.86	1.65
Minimum						0.65	0.80
Median						2.91	1.71
Maximum						6.37	2.52
Standard deviation						1.28	0.39

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K–21. School design effects – private

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
School enrollment is between 1,000 - 1,199 students	BYSCENP	5.1	3.34	1.83	147	3.34	1.83
Ninth grade included in school	BYSPANP	33.5	4.34	3.62	171	1.44	1.20
Year round school	BYA03E	9.0	4.69	2.21	168	4.50	2.12
Offer differentiated courses in core curriculum but students have open access to any course	BYA04	24.9	5.48	3.55	149	2.38	1.54
Semester system	BYA06	47.9	6.95	4.08	151	2.91	1.70
Average number of days in school year for 10 th graders	BYA07	179.0	0.44	0.34	169	1.62	1.27
Average number of class periods in school day for 10 th graders	BYA08	6.7	0.15	0.09	169	2.75	1.66
Average number of minutes of class period for 10 th graders	BYA09	50.8	0.88	0.83	170	1.11	1.05
Average size of full academic class load for 10 th graders	BYA10	6.2	0.15	0.09	150	2.91	1.71
School is co-educational	BYA11	89.8	2.19	2.33	171	0.88	0.94
Average percentage of students participating in alcohol/drug prevention program	BYA12G	69.5	5.29	3.64	112	2.10	1.45
Parents not notified when students are absent without excuse	BYA13	6.0	3.51	1.93	153	3.32	1.82
Average number of 10 th graders in a special education program	BYA14E	1.3	0.54	0.49	159	1.23	1.11
No vocational-technical programs or services offered	BYA16	69.0	7.00	3.81	148	3.37	1.83
	BYA19CA and						
Basketball offered for male or female students	BYA19CB	90.3	5.31	2.78	115	3.66	1.91
Average percentage of 10 th graders with limited English proficiency	BYA20	2.0	0.97	0.51	168	3.60	1.90
21 - 30 percentage of 10 th graders receiving free or reduced-price lunch	BY10FLP	0.5	0.40	0.57	168	0.49	0.70
31 - 45 full-time teachers	BYFTTP	12.5	3.77	2.60	163	2.10	1.45
Average number of part-time teachers	BYA22B	4.7	0.45	0.29	163	2.41	1.55
Average number of full-time math teachers	BYA23A	2.7	0.28	0.22	149	1.63	1.28
Average percentage of full-time teachers who are certified	BYA24A	59.9	5.45	2.98	159	3.33	1.82
Average percentage of certified full-time teachers teaching outside their field	BYA25A	5.5	1.60	1.14	134	1.94	1.39
Average lowest annual salary for full-time teachers	BYA26A	19767.2	1107.62	638.64	133	3.01	1.73
Good teachers are given priority on requests for materials	BYA28E	8.1	4.21	2.23	151	3.58	1.89
Content standards for academic subjects linked to performance standards for assessment of students' mastery of content	BYA31	63.5	6.66	4.19	133	2.53	1.59
Students not required to pass minimum competency or proficiency test to receive high school diploma	BYA32	67.2	7.37	3.82	152	3.72	1.93
Performance of students on standardized tests has great deal of influence on how principal's performance is evaluated	BYA48A	31.9	7.21	3.94	141	3.35	1.83
Learning of 10 th graders hindered not at all by lack of discipline and safety	BYA50J	75.1	6.48	3.64	142	3.16	1.78
Library media center is centralized	BYL01	79.4	6.47	3.27	154	3.92	1.98
Parents not allowed to check out materials from the library media center	BYL28	28.6	5.90	3.69	151	2.56	1.60
SUMMARY STATISTICS							
Mean						2.63	1.59
Minimum						0.49	0.70
Median						2.83	1.68
Maximum						4.50	2.12
Standard deviation						1.00	0.34

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-22. School design effects – small 10th

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
School enrollment is between 1,000 - 1,199 students	BYSCENP	4.8	1.18	1.13	356	1.10	1.05
Ninth grade included in school	BYSPANP	63.0	3.90	2.40	406	2.65	1.63
Year round school	BYA03E	4.5	1.76	1.04	401	2.89	1.70
Offer differentiated courses in core curriculum but students have open access to any course	BYA04	50.2	3.90	2.63	363	2.21	1.49
Semester system	BYA06	67.7	3.58	2.44	367	2.15	1.47
Average number of days in school year for 10 th graders	BYA07	179.3	0.23	0.18	402	1.53	1.24
Average number of class periods in school day for 10 th graders	BYA08	6.4	0.10	0.07	403	1.76	1.33
Average number of minutes of class period for 10 th graders	BYA09	58.3	1.21	0.89	403	1.83	1.35
Average size of full academic class load for 10 th graders	BYA10	6.2	0.10	0.07	366	2.32	1.52
School is co-educational	BYA11	96.9	0.64	0.87	406	0.54	0.74
Average percentage of students participating in alcohol/drug prevention program	BYA12G	53.6	3.33	2.26	287	2.17	1.47
Parents not notified when students are absent without excuse	BYA13	5.8	1.64	1.22	365	1.79	1.34
Average number of 10 th graders in a special education program	BYA14E	8.5	0.82	0.52	383	2.47	1.57
No vocational-technical programs or services offered	BYA16	29.4	3.26	2.39	366	1.87	1.37
	BYA19CA						
	AND						
Basketball offered for male or female students	BYA19CB	95.8	1.74	1.10	331	2.52	1.59
Average percentage of 10 th graders with limited English proficiency	BYA20	1.7	0.40	0.30	396	1.74	1.32
21 - 30 percentage of 10 th graders receiving free or reduced-price lunch	BY10FLP	14.0	2.75	1.78	380	2.38	1.54
31 - 45 full-time teachers	BYFTTP	17.9	2.71	1.95	386	1.93	1.39
Average number of part-time teachers	BYA22B	4.0	0.45	0.26	376	2.99	1.73
Average number of full-time math teachers	BYA23A	3.5	0.17	0.14	360	1.43	1.20
Average percentage of full-time teachers who are certified	BYA24A	86.1	2.13	1.39	395	2.34	1.53
Average percentage of certified full-time teachers teaching outside their field	BYA25A	5.3	1.13	0.82	342	1.90	1.38
Average lowest annual salary for full-time teachers	BYA26A	24925.3	479.90	332.41	332	2.08	1.44
Good teachers are given priority on requests for materials	BYA28E	3.8	1.42	1.01	360	1.97	1.41
Content standards for academic subjects linked to performance standards for assessment of students' mastery of content	BYA31	80.8	2.90	2.14	339	1.84	1.36
Students not required to pass minimum competency or proficiency test to receive high school diploma	BYA32	53.5	3.65	2.61	367	1.96	1.40
Performance of students on standardized tests has great deal of influence on how principal's performance is evaluated	BYA48A	46.8	3.98	2.69	344	2.18	1.48
Learning of 10 th graders hindered not at all by lack of discipline and safety	BYA50J	60.4	4.20	2.64	345	2.54	1.59
Library media center is centralized	BYL01	91.5	2.35	1.42	385	2.73	1.65
Parents not allowed to check out materials from the library media center	BYL28	25.7	3.44	2.25	379	2.34	1.53
SUMMARY STATISTICS							
Mean						2.07	1.43
Minimum						0.54	0.74
Median						2.12	1.45
Maximum						2.99	1.73
Standard deviation						0.52	0.20

NOTE: Small schools are defined as those with 10th-grade enrollment less than 300.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K–23. School design effects – large 10th

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
School enrollment is between 1,000 - 1,199 students	BYSCENP	9.5	2.12	1.78	274	1.42	1.19
Ninth grade included in school	BYSPANP	93.7	1.08	1.32	337	0.66	0.82
Year round school	BYA03E	3.9	1.18	1.05	336	1.25	1.12
Offer differentiated courses in core curriculum but students have open access to any course	BYA04	69.0	3.37	2.77	280	1.48	1.21
Semester system	BYA06	82.3	2.40	2.26	286	1.12	1.06
Average number of days in school year for 10 th graders	BYA07	179.5	0.19	0.20	333	0.94	0.97
Average number of class periods in school day for 10 th graders	BYA08	5.9	0.08	0.08	333	0.92	0.96
Average number of minutes of class period for 10 th graders	BYA09	63.8	1.00	1.03	335	0.94	0.97
Average size of full academic class load for 10 th graders	BYA10	6.0	0.09	0.08	286	1.34	1.16
School is co-educational	BYA11	99.4	0.26	0.43	334	0.36	0.60
Average percentage of students participating in alcohol/drug prevention program	BYA12G	37.9	2.40	2.31	237	1.08	1.04
Parents not notified when students are absent without excuse	BYA13	5.7	1.55	1.38	282	1.25	1.12
Average number of 10 th graders in a special education program	BYA14E	10.7	0.43	0.42	315	1.04	1.02
No vocational-technical programs or services offered	BYA16	5.4	1.31	1.35	282	0.94	0.97
	BYA19CA and						
Basketball offered for male or female students	BYA19CB	100.0	0.00	0.00	280	#	#
Average percentage of 10 th graders with limited English proficiency	BYA20	5.5	0.42	0.45	317	0.88	0.94
21 - 30 percentage of 10 th graders receiving free or reduced-price lunch	BY10FLP	15.5	2.33	2.08	305	1.26	1.12
31 - 45 full-time teachers	BYFFTP	1.2	0.60	0.61	327	0.97	0.99
Average number of part-time teachers	BYA22B	4.2	0.27	0.27	311	1.02	1.01
Average number of full-time math teachers	BYA23A	12.9	0.23	0.27	272	0.70	0.83
Average percentage of full-time teachers who are certified	BYA24A	96.2	0.61	0.68	326	0.80	0.90
Average percentage of certified full-time teachers teaching outside their field	BYA25A	2.9	0.80	0.77	261	1.08	1.04
Average lowest annual salary for full-time teachers	BYA26A	29877.9	312.54	298.54	258	1.10	1.05
Good teachers are given priority on requests for materials	BYA28E	1.0	0.59	0.60	283	0.97	0.99
Content standards for academic subjects linked to performance standards for assessment of students' mastery of content	BYA31	91.9	1.87	1.65	276	1.29	1.14
Students not required to pass minimum competency or proficiency test to receive high school diploma	BYA32	28.3	2.59	2.67	285	0.94	0.97
Performance of students on standardized tests has great deal of influence on how principal's performance is evaluated	BYA48A	69.4	3.03	2.81	270	1.16	1.08
Learning of 10 th graders hindered not at all by lack of discipline and safety	BYA50J	48.2	3.48	3.04	271	1.31	1.14
Library media center is centralized	BYL01	98.0	0.73	0.78	323	0.87	0.93
Parents not allowed to check out materials from the library media center	BYL28	37.9	2.97	2.72	319	1.19	1.09
SUMMARY STATISTICS							
Mean						1.04	1.01
Minimum						0.36	0.60
Median						1.04	1.02
Maximum						1.48	1.21
Standard deviation						0.24	0.13

#The design effect is undefined because the estimate is 100.00.

NOTE: Large schools are defined as those with 10th-grade enrollment of at least 300.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-24. Student design effects – all

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT	
Student lives in the South	BYREGION	34.3	0.66	0.38	15362	3.01	1.73	
Student born in 1986	DOBIRTHP	57.4	0.54	0.40	15308	1.83	1.35	
Student lives with father and mother	BYFCOMP	56.8	0.57	0.40	15362	2.01	1.42	
Reading test number-right score	BYTXRIRR	29.5	0.18	0.08	15362	5.18	2.28	
Mathematics test number-right score	BYTXMIRR	37.2	0.23	0.10	15362	5.60	2.37	
Composite achievement test highest quartile	BYTXCQU	25.0	0.68	0.35	15362	3.77	1.94	
Agree or strongly agree that school rules are fair	BYS21B	54.1	0.65	0.41	14494	2.47	1.57	
Never was hit the first semester	BYS22E	78.6	0.46	0.34	14590	1.80	1.34	
Someone bullied or picked on student at least once	BYS22H	20.2	0.44	0.33	14654	1.74	1.32	
High school program is general	SCHPROG	38.6	0.63	0.39	15362	2.56	1.60	
Average number of hours spent on homework each week out of school	BYS34B	5.7	0.08	0.05	14903	2.95	1.72	
Average number of hours spent on English homework each week out of school	BYS36B	2.4	0.04	0.03	13913	2.30	1.52	
Good grades not important	BYS37	1.4	0.12	0.09	15086	1.50	1.22	
Never come to class without books	BYS38B	51.6	0.62	0.42	14482	2.21	1.49	
Participated in band, orchestra, chorus, or choir	BYS41A	21.5	0.52	0.34	15011	2.38	1.54	
Did not participate in a hobby club	BYS41H	90.5	0.34	0.24	14942	2.04	1.43	
Use computer as a resource to learn things of interest at least once a week	BYS45C	42.4	0.57	0.41	14317	1.87	1.37	
Watch more than 2 hrs of TV or videotapes/DVDs per weekday	BYS48A	52.5	0.57	0.42	14163	1.85	1.36	
Being able to give own children better opportunities somewhat or very important	BYS54G	80.3	0.43	0.33	14637	1.68	1.30	
Expect to finish college	STEXPECT	35.8	0.46	0.39	15362	1.42	1.19	
Plan to continue education right after high school	BYS57	71.6	0.52	0.38	13972	1.87	1.37	
Hope to receive an athletic scholarship	BYS61	73.2	0.74	0.57	6142	1.70	1.31	
At age 30 exp to be a manager	BYOCC30	1.9	0.14	0.12	13520	1.48	1.22	
At age 30 exp to be in the military	BYOCC30	0.9	0.10	0.08	13520	1.53	1.24	
At age 30 exp to be an operative	BYOCC30	0.6	0.10	0.06	13520	2.42	1.55	
At age 30 exp to be a clergyman	BYOCC30	20.4	0.43	0.35	13520	1.54	1.24	
At age 30 exp to be a technician	BYOCC30	3.3	0.19	0.15	13520	1.59	1.26	
At age 30 doesn't know what to be	BYOCC30	34.6	0.53	0.41	13520	1.68	1.30	
English is native language	STLANG	86.0	0.60	0.28	15362	4.61	2.15	
Among close friends, somewhat or very important that they have a regular job	BYS90K	79.0	0.56	0.40	10472	1.98	1.41	
SUMMARY STATISTICS								
Mean						2.35	1.50	
Minimum						1.42	1.19	
Median						1.93	1.39	
Maximum						5.60	2.37	
Standard deviation						1.09	0.31	

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K–25. Student design effects – male

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT	
Student lives in the South	BYREGION	33.8	0.83	0.54	7646	2.38	1.54	
Student born in 1986	DOBIRTHP	53.0	0.76	0.57	7606	1.75	1.32	
Student lives with father and mother	BYFCOMP	57.1	0.72	0.57	7646	1.62	1.27	
Reading test number-right score	BYTXRIRR	28.9	0.20	0.12	7646	3.03	1.74	
Mathematics test number-right score	BYXMIRR	37.8	0.26	0.14	7646	3.33	1.82	
Composite achievement test highest quartile	BYTXCQU	25.6	0.78	0.50	7646	2.45	1.57	
Agree or strongly agree that school rules are fair	BYS21B	51.9	0.82	0.59	7186	1.92	1.39	
Never was hit the first semester	BYS22E	70.6	0.71	0.54	7228	1.77	1.33	
Someone bullied or picked on student at least once	BYS22H	19.7	0.61	0.47	7266	1.70	1.30	
High school program is general	SCHPROG	39.3	0.79	0.56	7646	2.00	1.41	
Average number of hours spent on homework each week out of school	BYS34B	5.1	0.09	0.06	7353	2.18	1.48	
Average number of hours spent on English homework each week out of school	BYS36B	2.2	0.05	0.04	6857	2.04	1.43	
Good grades not important	BYS37	2.1	0.20	0.16	7477	1.53	1.24	
Never come to class without books	BYS38B	50.0	0.73	0.59	7153	1.51	1.23	
Participated in band, orchestra, chorus, or choir	BYS41A	16.3	0.60	0.43	7430	1.95	1.40	
Did not participate in a hobby club	BYS41H	91.9	0.41	0.32	7396	1.65	1.29	
Use computer as a resource to learn things of interest at least once a week	BYS45C	45.3	0.78	0.59	7056	1.75	1.32	
Watch more than 2 hrs of TV or videotapes/DVDs per weekday	BYS48A	54.2	0.79	0.60	6979	1.74	1.32	
Being able to give own children better opportunities somewhat or very important	BYS54G	78.9	0.63	0.48	7195	1.74	1.32	
Expect to finish college	STEXPECT	37.2	0.66	0.55	7646	1.44	1.20	
Plan to continue education right after high school	BYS57	66.4	0.73	0.58	6713	1.62	1.27	
Hope to receive an athletic scholarship	BYS61	77.9	0.94	0.72	3335	1.72	1.31	
At age 30 exp to be a manager	BYOCC30	2.2	0.22	0.18	6529	1.51	1.23	
At age 30 exp to be in the military	BYOCC30	1.7	0.19	0.16	6529	1.51	1.23	
At age 30 exp to be an operative	BYOCC30	1.1	0.19	0.13	6529	2.29	1.51	
At age 30 exp to be a clergyman	BYOCC30	11.8	0.50	0.40	6529	1.54	1.24	
At age 30 exp to be a technician	BYOCC30	4.5	0.32	0.26	6529	1.55	1.24	
At age 30 doesn't know what to be	BYOCC30	38.9	0.73	0.60	6529	1.48	1.22	
English is native language	STLANG	86.2	0.62	0.39	7646	2.49	1.58	
Among close friends, somewhat or very important that they have a regular job	BYS90K	81.8	0.70	0.55	4968	1.65	1.29	
SUMMARY STATISTICS								
Mean						1.90	1.37	
Minimum						1.44	1.20	
Median						1.74	1.32	
Maximum						3.33	1.82	
Standard deviation						0.46	0.16	

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-26. Student design effects – female

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Student lives in the South	BYREGION	34.8	0.81	0.54	7716	2.23	1.49
Student born in 1986	DOBIRTHP	62.0	0.71	0.55	7702	1.64	1.28
Student lives with father and mother	BYFCOMP	56.5	0.79	0.56	7716	1.96	1.40
Reading test number-right score	BYTXRIRR	30.1	0.21	0.11	7716	3.88	1.97
Mathematics test number-right score	BYXMIRR	36.6	0.26	0.13	7716	3.88	1.97
Composite achievement test highest quartile	BYXCQU	24.5	0.84	0.49	7716	2.97	1.72
Agree or strongly agree that school rules are fair	BYS21B	56.2	0.92	0.58	7308	2.49	1.58
Never was hit the first semester	BYS22E	86.7	0.51	0.40	7362	1.68	1.30
Someone bullied or picked on student at least once	BYS22H	20.6	0.60	0.47	7388	1.60	1.27
High school program is general	SCHPROG	37.8	0.79	0.55	7716	2.06	1.44
Average number of hours spent on homework each week out of school	BYS34B	6.3	0.10	0.07	7550	2.28	1.51
Average number of hours spent on English homework each week out of school	BYS36B	2.7	0.05	0.04	7056	1.96	1.40
Good grades not important	BYS37	0.7	0.10	0.09	7609	1.20	1.10
Never come to class without books	BYS38B	53.2	0.86	0.58	7329	2.18	1.48
Participated in band, orchestra, chorus, or choir	BYS41A	26.8	0.71	0.51	7581	1.94	1.39
Did not participate in a hobby club	BYS41H	89.1	0.50	0.36	7546	1.95	1.40
Use computer as a resource to learn things of interest at least once a week	BYS45C	39.4	0.71	0.57	7261	1.55	1.24
Watch more than 2 hrs of TV or videotapes/DVDs per weekday	BYS48A	50.9	0.76	0.59	7184	1.65	1.28
Being able to give own children better opportunities somewhat or very important	BYS54G	81.6	0.57	0.45	7442	1.62	1.27
Expect to finish college	STEXPECT	34.4	0.65	0.54	7716	1.44	1.20
Plan to continue education right after high school	BYS57	76.5	0.67	0.50	7259	1.79	1.34
Hope to receive an athletic scholarship	BYS61	67.6	1.03	0.88	2807	1.36	1.17
At age 30 exp to be a manager	BYOCC30	1.7	0.19	0.15	6991	1.52	1.23
At age 30 exp to be in the military	BYOCC30	0.2	0.08	0.06	6991	1.79	1.34
At age 30 exp to be an operative	BYOCC30	0.1	0.04	0.03	6991	1.54	1.24
At age 30 exp to be a clergyman	BYOCC30	28.7	0.61	0.54	6991	1.29	1.14
At age 30 exp to be a technician	BYOCC30	2.2	0.23	0.17	6991	1.67	1.29
At age 30 doesn't know what to be	BYOCC30	30.5	0.68	0.55	6991	1.54	1.24
English is native language	STLANG	85.7	0.81	0.40	7716	4.12	2.03
Among close friends, somewhat or very important that they have a regular job	BYS90K	76.5	0.70	0.57	5504	1.52	1.23
SUMMARY STATISTICS							
Mean						2.01	1.40
Minimum						1.20	1.10
Median						1.73	1.32
Maximum						4.12	2.03
Standard deviation						0.76	0.24

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K–27. Student design effects – Indian

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Student lives in the South	BYREGION	18.9	5.69	3.43	131	2.75	1.66
Student born in 1986	DOBIRTHP	44.8	4.38	4.36	131	1.01	1.00
Student lives with father and mother	BYFCOMP	43.5	5.41	4.35	131	1.55	1.24
Reading test number-right score	BYTXRIRR	26.0	0.80	0.73	131	1.22	1.10
Mathematics test number-right score	BYXMIRR	32.2	1.08	0.81	131	1.81	1.35
Composite achievement test highest quartile	BYXCQU	4.1	1.73	1.73	131	1.00	1.00
Agree or strongly agree that school rules are fair	BYS21B	48.3	4.81	4.52	123	1.13	1.06
Never was hit the first semester	BYS22E	70.0	4.83	4.13	124	1.37	1.17
Someone bullied or picked on student at least once	BYS22H	19.5	4.45	3.57	124	1.55	1.24
High school program is general	SCHPROG	44.6	5.18	4.36	131	1.41	1.19
Average number of hours spent on homework each week out of school	BYS34B	5.8	0.79	0.61	125	1.70	1.30
Average number of hours spent on English homework each week out of school	BYS36B	2.4	0.31	0.30	119	1.09	1.04
Good grades not important	BYS37	6.2	3.24	2.14	127	2.29	1.51
Never come to class without books	BYS38B	46.3	5.84	4.55	121	1.65	1.28
Participated in band, orchestra, chorus, or choir	BYS41A	12.3	3.75	2.93	127	1.63	1.28
Did not participate in a hobby club	BYS41H	94.7	2.23	2.00	126	1.24	1.12
Use computer as a resource to learn things of interest at least once a week	BYS45C	37.3	4.47	4.47	118	1.00	1.00
Watch more than 2 hrs of TV or videotapes/DVDs per weekday	BYS48A	54.7	5.30	4.68	114	1.28	1.13
Being able to give own children better opportunities somewhat or very important	BYS54G	87.8	3.54	3.02	119	1.38	1.17
Expect to finish college	STEXPECT	30.9	6.15	4.05	131	2.30	1.52
Plan to continue education right after high school	BYS57	56.6	4.58	4.66	114	0.97	0.98
Hope to receive an athletic scholarship	BYS61	76.3	5.14	5.36	64	0.92	0.96
At age 30 exp to be a manager	BYOCC30	0.0	0.00	0.00	112	#	#
At age 30 exp to be in the military	BYOCC30	0.8	0.79	0.83	112	0.90	0.95
At age 30 exp to be an operative	BYOCC30	0.0	0.00	0.00	112	#	#
At age 30 exp to be a clergyman	BYOCC30	13.4	3.42	3.24	112	1.12	1.06
At age 30 exp to be a technician	BYOCC30	5.7	2.40	2.19	112	1.20	1.10
At age 30 doesn't know what to be	BYOCC30	43.6	4.88	4.71	112	1.07	1.04
English is native language	STLANG	83.7	4.46	3.24	131	1.90	1.38
Among close friends, somewhat or very important that they have a regular job	BYS90K	76.6	6.06	5.06	71	1.44	1.20
SUMMARY STATISTICS							
Mean						1.42	1.18
Minimum						0.90	0.95
Median						1.32	1.15
Maximum						2.75	1.66
Standard deviation						0.46	0.18

#The design effect is undefined because the estimate is 100.00.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K–28. Student design effects – Asian

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT	
Student lives in the South	BYREGION	17.1	1.63	0.98	1465	2.75	1.66	
Student born in 1986	DOBIRTHP	68.1	1.72	1.22	1461	1.99	1.41	
Student lives with father and mother	BYFCOMP	71.2	1.61	1.18	1465	1.85	1.36	
Reading test number-right score	BYTXRIRR	29.9	0.50	0.25	1465	3.84	1.96	
Mathematics test number-right score	BYTXMIRR	41.6	0.66	0.32	1465	4.20	2.05	
Composite achievement test highest quartile	BYTXCQU	29.9	2.27	1.20	1465	3.61	1.90	
Agree or strongly agree that school rules are fair	BYS21B	58.7	2.03	1.33	1380	2.34	1.53	
Never was hit the first semester	BYS22E	80.5	1.34	1.06	1398	1.60	1.27	
Someone bullied or picked on student at least once	BYS22H	15.6	1.35	0.97	1401	1.94	1.39	
High school program is general	SCHPROG	29.6	1.88	1.19	1465	2.49	1.58	
Average number of hours spent on homework each week out of school	BYS34B	8.2	0.30	0.19	1427	2.63	1.62	
Average number of hours spent on English homework each week out of school	BYS36B	3.3	0.15	0.10	1364	2.25	1.50	
Good grades not important	BYS37	0.8	0.26	0.23	1435	1.27	1.13	
Never come to class without books	BYS38B	48.9	1.89	1.35	1374	1.97	1.40	
Participated in band, orchestra, chorus, or choir	BYS41A	19.7	1.56	1.05	1425	2.18	1.48	
Did not participate in a hobby club	BYS41H	84.5	1.41	0.96	1412	2.15	1.47	
Use computer as a resource to learn things of interest at least once a week	BYS45C	51.2	1.73	1.36	1357	1.63	1.28	
Watch more than 2 hrs of TV or videotapes/DVDs per weekday	BYS48A	51.3	1.99	1.36	1343	2.13	1.46	
Being able to give own children better opportunities somewhat or very important	BYS54G	79.6	1.65	1.09	1376	2.30	1.52	
Expect to finish college	STEXPECT	33.4	1.89	1.23	1465	2.34	1.53	
Plan to continue education right after high school	BYS57	84.2	1.55	0.98	1376	2.48	1.58	
Hope to receive an athletic scholarship	BYS61	69.3	2.82	2.06	502	1.88	1.37	
At age 30 exp to be a manager	BYOCC30	2.4	0.59	0.43	1274	1.85	1.36	
At age 30 exp to be in the military	BYOCC30	0.3	0.16	0.16	1274	1.00	1.00	
At age 30 exp to be an operative	BYOCC30	0.3	0.20	0.14	1274	1.94	1.39	
At age 30 exp to be a clergyman	BYOCC30	24.0	1.64	1.20	1274	1.87	1.37	
At age 30 exp to be a technician	BYOCC30	4.3	0.98	0.57	1274	2.97	1.72	
At age 30 doesn't know what to be	BYOCC30	40.1	1.74	1.37	1274	1.61	1.27	
English is native language	STLANG	36.9	2.01	1.26	1465	2.53	1.59	
Among close friends, somewhat or very important that they have a regular job	BY90K	77.8	2.03	1.30	1020	2.44	1.56	
SUMMARY STATISTICS								
Mean						2.27	1.49	
Minimum						1.00	1.00	
Median						2.17	1.47	
Maximum						4.20	2.05	
Standard deviation						0.70	0.22	

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K–29. Student design effects – Black

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT	
Student lives in the South	BYREGION	59.04	2.30	1.09	2033	4.43	2.10	
Student born in 1986	DOBIRTHP	54.52	1.46	1.11	2024	1.73	1.32	
Student lives with father and mother	BYFCOMP	31.42	1.28	1.03	2033	1.54	1.24	
Reading test number-right score	BYTXRIRR	24.28	0.28	0.18	2033	2.29	1.51	
Mathematics test number-right score	BYTXMIRR	29.71	0.35	0.21	2033	2.78	1.67	
Composite achievement test highest quartile	BYXCQU	5.43	0.64	0.50	2033	1.61	1.27	
Agree or strongly agree that school rules are fair	BYS21B	40.66	1.68	1.13	1891	2.20	1.48	
Never was hit the first semester	BYS22E	76.43	1.18	0.97	1909	1.47	1.21	
Someone bullied or picked on student at least once	BYS22H	12.92	0.96	0.77	1921	1.58	1.26	
High school program is general	SCHPROG	34.05	1.35	1.05	2033	1.65	1.28	
Average number of hours spent on homework each week out of school	BYS34B	4.94	0.16	0.13	1908	1.52	1.23	
Average number of hours spent on English homework each week out of school	BYS36B	2.56	0.10	0.08	1725	1.33	1.15	
Good grades not important	BYS37	0.50	0.17	0.16	1960	1.12	1.06	
Never come to class without books	BYS38B	47.04	1.40	1.15	1871	1.48	1.22	
Participated in band, orchestra, chorus, or choir	BYS41A	21.55	1.33	0.94	1925	2.01	1.42	
Did not participate in a hobby club	BYS41H	92.18	0.68	0.61	1921	1.21	1.10	
Use computer as a resource to learn things of interest at least once a week	BYS45C	44.29	1.41	1.17	1816	1.46	1.21	
Watch more than 2 hrs of TV or videotapes/DVDs per weekday	BYS48A	69.43	1.34	1.09	1787	1.51	1.23	
Being able to give own children better opportunities somewhat or very important	BYS54G	88.34	0.88	0.74	1865	1.39	1.18	
Expect to finish college	STEXPECT	37.34	1.19	1.07	2033	1.23	1.11	
Plan to continue education right after high school	BYS57	75.73	1.25	1.01	1786	1.51	1.23	
Hope to receive an athletic scholarship	BYS61	81.66	1.40	1.27	928	1.22	1.10	
At age 30 exp to be a manager	BYOCC30	2.61	0.53	0.39	1650	1.82	1.35	
At age 30 exp to be in the military	BYOCC30	1.02	0.30	0.25	1650	1.44	1.20	
At age 30 exp to be an operative	BYOCC30	0.17	0.12	0.10	1650	1.42	1.19	
At age 30 exp to be a clergyman	BYOCC30	25.16	1.22	1.07	1650	1.31	1.15	
At age 30 exp to be a technician	BYOCC30	4.42	0.61	0.51	1650	1.47	1.21	
At age 30 doesn't know what to be	BYOCC30	29.36	1.28	1.12	1650	1.30	1.14	
English is native language	STLANG	94.39	0.64	0.51	2033	1.56	1.25	
Among close friends, somewhat or very important that they have a regular job	BYS90K	85.76	1.28	1.06	1079	1.44	1.20	
SUMMARY STATISTICS								
Mean						1.67	1.28	
Minimum						1.12	1.06	
Median						1.49	1.22	
Maximum						4.43	2.10	
Standard deviation						0.63	0.20	

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-30. Student design effects – Hispanic

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Student lives in the South	BYREGION	26.8	2.39	0.94	2234	6.52	2.55
Student born in 1986	DOBIRTHP	55.2	1.26	1.06	2216	1.42	1.19
Student lives with father and mother	BYFCOMP	54.1	1.34	1.05	2234	1.62	1.27
Reading test number-right score	BYTXRIRR	24.6	0.33	0.19	2234	2.81	1.68
Mathematics test number-right score	BYTXMIRR	31.1	0.38	0.23	2234	2.62	1.62
Composite achievement test highest quartile	BYTXCQU	10.6	0.95	0.65	2234	2.12	1.46
Agree or strongly agree that school rules are fair	BYS21B	52.7	1.46	1.09	2099	1.80	1.34
Never was hit the first semester	BYS22E	80.1	1.03	0.87	2101	1.40	1.18
Someone bullied or picked on student at least once	BYS22H	16.7	1.06	0.81	2125	1.71	1.31
High school program is general	SCHPROG	44.1	1.37	1.05	2234	1.70	1.30
Average number of hours spent on homework each week out of school	BYS34B	5.5	0.16	0.13	2118	1.72	1.31
Average number of hours spent on English homework each week out of school	BYS36B	2.9	0.11	0.08	1985	1.76	1.33
Good grades not important	BYS37	1.8	0.33	0.29	2179	1.34	1.16
Never come to class without books	BYS38B	44.7	1.27	1.09	2085	1.36	1.17
Participated in band, orchestra, chorus, or choir	BYS41A	13.0	0.91	0.72	2165	1.58	1.26
Did not participate in a hobby club	BYS41H	92.0	0.64	0.59	2153	1.21	1.10
Use computer as a resource to learn things of interest at least once a week	BYS45C	39.6	1.24	1.08	2051	1.31	1.15
Watch more than 2 hrs of TV or videotapes/DVDs per weekday	BYS48A	59.6	1.36	1.09	2017	1.55	1.25
Being able to give own children better opportunities somewhat or very important	BYS54G	85.6	0.93	0.77	2071	1.45	1.20
Expect to finish college	STEXPECT	35.0	1.30	1.01	2234	1.65	1.28
Plan to continue education right after high school	BYS57	66.5	1.15	1.08	1924	1.14	1.07
Hope to receive an athletic scholarship	BYS61	66.9	1.94	1.63	833	1.42	1.19
At age 30 exp to be a manager	BYOCC30	1.7	0.36	0.30	1855	1.41	1.19
At age 30 exp to be in the military	BYOCC30	0.6	0.22	0.17	1855	1.55	1.24
At age 30 exp to be an operative	BYOCC30	0.2	0.14	0.11	1855	1.49	1.22
At age 30 exp to be a clergyman	BYOCC30	18.2	1.02	0.90	1855	1.29	1.14
At age 30 exp to be a technician	BYOCC30	2.1	0.37	0.33	1855	1.25	1.12
At age 30 doesn't know what to be	BYOCC30	42.7	1.48	1.15	1855	1.66	1.29
English is native language	STLANG	47.7	1.93	1.06	2234	3.34	1.83
Among close friends, somewhat or very important that they have a regular job	BYS90K	84.4	1.13	0.98	1374	1.34	1.16
SUMMARY STATISTICS							
Mean						1.82	1.32
Minimum						1.14	1.07
Median						1.55	1.25
Maximum						6.52	2.55
Standard deviation						1.01	0.29

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K–31. Student design effects – White

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT	
Student lives in the South	BYREGION	32.3	1.03	0.50	8757	4.22	2.05	
Student born in 1986	DOBIRTHP	58.1	0.69	0.53	8735	1.72	1.31	
Student lives with father and mother	BYFCOMP	63.5	0.69	0.51	8757	1.82	1.35	
Reading test number-right score	BYTXRIRR	32.1	0.17	0.10	8757	2.99	1.73	
Mathematics test number-right score	BYTXMIRR	40.5	0.21	0.12	8757	3.21	1.79	
Composite achievement test highest quartile	BYXCQU	33.9	0.82	0.51	8757	2.62	1.62	
Agree or strongly agree that school rules are fair	BYS21B	57.9	0.78	0.54	8289	2.05	1.43	
Never was hit the first semester	BYS22E	79.5	0.59	0.44	8340	1.76	1.33	
Someone bullied or picked on student at least once	BYS22H	22.7	0.57	0.46	8364	1.57	1.25	
High school program is general	SCHPROG	38.6	0.81	0.52	8757	2.45	1.57	
Average number of hours spent on homework each week out of school	BYS34B	5.7	0.10	0.06	8605	2.72	1.65	
Average number of hours spent on English homework each week out of school	BYS36B	2.3	0.05	0.03	8047	2.51	1.58	
Good grades not important	BYS37	1.4	0.15	0.13	8652	1.31	1.14	
Never come to class without books	BYS38B	54.8	0.81	0.55	8319	2.23	1.49	
Participated in band, orchestra, chorus, or choir	BYS41A	23.9	0.65	0.46	8640	2.02	1.42	
Did not participate in a hobby club	BYS41H	90.3	0.47	0.32	8604	2.13	1.46	
Use computer as a resource to learn things of interest at least once a week	BYS45C	42.1	0.70	0.54	8265	1.67	1.29	
Watch more than 2 hrs of TV or videotapes/DVDs per weekday	BYS48A	46.5	0.71	0.55	8207	1.67	1.29	
Being able to give own children better opportunities somewhat or very important	BYS54G	77.2	0.57	0.46	8485	1.58	1.26	
Expect to finish college	STEXPECT	35.9	0.60	0.51	8757	1.37	1.17	
Plan to continue education right after high school	BYS57	71.7	0.66	0.50	8103	1.74	1.32	
Hope to receive an athletic scholarship	BYS61	72.6	1.01	0.75	3499	1.81	1.35	
At age 30 exp to be a manager	BYOCC30	1.8	0.18	0.15	7958	1.51	1.23	
At age 30 exp to be in the military	BYOCC30	1.1	0.14	0.12	7958	1.41	1.19	
At age 30 exp to be an operative	BYOCC30	0.7	0.15	0.10	7958	2.33	1.53	
At age 30 exp to be a clergyman	BYOCC30	19.8	0.54	0.45	7958	1.49	1.22	
At age 30 exp to be a technician	BYOCC30	3.4	0.24	0.20	7958	1.45	1.21	
At age 30 doesn't know what to be	BYOCC30	33.6	0.65	0.53	7958	1.52	1.23	
English is native language	STLANG	97.0	0.28	0.18	8757	2.33	1.53	
Among close friends, somewhat or very important that they have a regular job	BYS90K	76.6	0.70	0.53	6410	1.77	1.33	
SUMMARY STATISTICS								
Mean						2.03	1.41	
Minimum						1.31	1.14	
Median						1.79	1.34	
Maximum						4.22	2.05	
Standard deviation						0.65	0.21	

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-32. Student design effects – Multiracial

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Student lives in the South	BYREGION	27.2	2.21	1.64	742	1.83	1.35
Student born in 1986	DOBIRTHP	58.2	2.45	1.81	741	1.83	1.35
Student lives with father and mother	BYFCOMP	46.4	2.42	1.83	742	1.74	1.32
Reading test number-right score	BYTXRIRR	29.0	0.48	0.35	742	1.92	1.39
Mathematics test number-right score	BYTXMIRR	36.0	0.55	0.42	742	1.72	1.31
Composite achievement test highest quartile	BYXCQU	20.5	1.87	1.48	742	1.59	1.26
Agree or strongly agree that school rules are fair	BYS21B	46.8	2.44	1.87	712	1.70	1.30
Never was hit the first semester	BYS22E	69.1	2.13	1.73	718	1.53	1.24
Someone bullied or picked on student at least once	BYS22H	26.3	2.04	1.64	719	1.54	1.24
High school program is general	SCHPROG	40.5	2.23	1.80	742	1.53	1.24
Average number of hours spent on homework each week out of school	BYS34B	5.8	0.27	0.21	720	1.72	1.31
Average number of hours spent on English homework each week out of school	BYS36B	2.4	0.13	0.11	673	1.33	1.15
Good grades not important	BYS37	1.2	0.56	0.40	733	1.94	1.39
Never come to class without books	BYS38B	50.8	2.45	1.87	712	1.71	1.31
Participated in band, orchestra, chorus, or choir	BYS41A	21.3	1.80	1.52	729	1.40	1.18
Did not participate in a hobby club	BYS41H	87.3	1.50	1.24	726	1.47	1.21
Use computer as a resource to learn things of interest at least once a week	BYS45C	42.1	2.22	1.85	710	1.43	1.19
Watch more than 2 hrs of TV or videotapes/DVDs per weekday	BYS48A	60.1	2.55	1.86	695	1.89	1.37
Being able to give own children better opportunities somewhat or very important	BYS54G	77.8	1.85	1.55	721	1.42	1.19
Expect to finish college	STEXPECT	35.0	2.32	1.75	742	1.75	1.32
Plan to continue education right after high school	BYS57	63.4	2.64	1.86	669	2.01	1.42
Hope to receive an athletic scholarship	BYS61	72.0	3.23	2.53	316	1.63	1.28
At age 30 exp to be a manager	BYOCC30	1.9	0.70	0.53	671	1.75	1.32
At age 30 exp to be in the military	BYOCC30	0.8	0.38	0.34	671	1.25	1.12
At age 30 exp to be an operative	BYOCC30	0.6	0.48	0.30	671	2.46	1.57
At age 30 exp to be a clergyman	BYOCC30	20.0	1.84	1.55	671	1.41	1.19
At age 30 exp to be a technician	BYOCC30	1.9	0.56	0.53	671	1.12	1.06
At age 30 doesn't know what to be	BYOCC30	30.7	2.20	1.78	671	1.53	1.24
English is native language	STLANG	92.5	1.04	0.97	742	1.15	1.07
Among close friends, somewhat or very important that they have a regular job	BY90K	83.4	2.08	1.64	518	1.62	1.27
SUMMARY STATISTICS							
Mean						1.63	1.27
Minimum						1.12	1.06
Median						1.63	1.27
Maximum						2.46	1.57
Standard deviation						0.28	0.11

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K–33. Student design effects – public

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT	
Student lives in the South	BYREGION	34.4	0.70	0.43	12039	2.63	1.62	
Student born in 1986	DOBIRTHP	57.1	0.58	0.45	11998	1.64	1.28	
Student lives with father and mother	BYFCOMP	55.3	0.61	0.45	12039	1.78	1.34	
Reading test number-right score	BYTXRIRR	29.1	0.19	0.09	12039	4.57	2.14	
Mathematics test number-right score	BYTXMIRR	36.7	0.24	0.11	12039	4.98	2.23	
Composite achievement test highest quartile	BYXCQU	23.6	0.71	0.39	12039	3.41	1.85	
Agree or strongly agree that school rules are fair	BYS21B	53.5	0.69	0.47	11363	2.18	1.48	
Never was hit the first semester	BYS22E	78.5	0.49	0.38	11435	1.60	1.26	
Someone bullied or picked on student at least once	BYS22H	20.4	0.47	0.38	11493	1.56	1.25	
High school program is general	SCHPROG	40.1	0.66	0.45	12039	2.18	1.48	
Average number of hours spent on homework each week out of school	BYS34B	5.5	0.08	0.05	11634	2.60	1.61	
Average number of hours spent on English homework each week out of school	BYS36B	2.4	0.04	0.03	10721	2.01	1.42	
Good grades not important	BYS37	1.4	0.12	0.11	11815	1.35	1.16	
Never come to class without books	BYS38B	51.2	0.66	0.47	11344	1.98	1.41	
Participated in band, orchestra, chorus, or choir	BYS41A	21.2	0.53	0.38	11746	2.01	1.42	
Did not participate in a hobby club	BYS41H	91.1	0.35	0.26	11690	1.79	1.34	
Use computer as a resource to learn things of interest at least once a week	BYS45C	42.1	0.60	0.47	11203	1.65	1.29	
Watch more than 2 hrs of TV or videotapes/DVDs per weekday	BYS48A	53.7	0.60	0.47	11085	1.59	1.26	
Being able to give own children better opportunities somewhat or very important	BYS54G	80.7	0.45	0.37	11447	1.51	1.23	
Expect to finish college	STEXPECT	35.8	0.49	0.44	12039	1.26	1.12	
Plan to continue education right after high school	BYS57	70.4	0.56	0.44	10781	1.61	1.27	
Hope to receive an athletic scholarship	BYS61	73.5	0.80	0.65	4565	1.49	1.22	
At age 30 exp to be a manager	BYOCC30	1.9	0.15	0.13	10535	1.34	1.16	
At age 30 exp to be in the military	BYOCC30	1.0	0.11	0.10	10535	1.34	1.16	
At age 30 exp to be an operative	BYOCC30	0.6	0.11	0.07	10535	2.09	1.44	
At age 30 exp to be a clergyman	BYOCC30	20.0	0.45	0.39	10535	1.36	1.17	
At age 30 exp to be a technician	BYOCC30	3.4	0.21	0.18	10535	1.40	1.18	
At age 30 doesn't know what to be	BYOCC30	34.6	0.57	0.46	10535	1.51	1.23	
English is native language	STLANG	85.5	0.64	0.32	12039	4.02	2.00	
Among close friends, somewhat or very important that they have a regular job	BYS90K	79.7	0.59	0.45	8109	1.76	1.33	
SUMMARY STATISTICS								
Mean						2.07	1.41	
Minimum						1.26	1.12	
Median						1.71	1.31	
Maximum						4.98	2.23	
Standard deviation						0.96	0.29	

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-34. Student design effects – Catholic

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Student lives in the South	BYREGION	24.5	2.13	0.98	1920	4.72	2.17
Student born in 1986	DOBIRTHP	66.1	1.48	1.08	1918	1.86	1.36
Student lives with father and mother	BYFCOMP	75.1	1.23	0.99	1920	1.56	1.25
Reading test number-right score	BYTXRIRR	35.0	0.42	0.19	1920	5.19	2.28
Mathematics test number-right score	BYTXMIRR	43.0	0.48	0.23	1920	4.37	2.09
Composite achievement test highest quartile	BYTXCQU	42.4	2.04	1.13	1920	3.26	1.81
Agree or strongly agree that school rules are fair	BYS21B	57.6	2.06	1.16	1826	3.17	1.78
Never was hit the first semester	BYS22E	80.8	1.48	0.92	1833	2.59	1.61
Someone bullied or picked on student at least once	BYS22H	20.0	0.94	0.93	1841	1.01	1.00
High school program is general	SCHPROG	18.4	1.74	0.88	1920	3.88	1.97
Average number of hours spent on homework each week out of school	BYS34B	8.0	0.23	0.14	1910	2.69	1.64
Average number of hours spent on English homework each week out of school	BYS36B	2.9	0.10	0.06	1877	2.66	1.63
Good grades not important	BYS37	1.2	0.27	0.25	1909	1.20	1.10
Never come to class without books	BYS38B	55.4	1.42	1.16	1834	1.50	1.23
Participated in band, orchestra, chorus, or choir	BYS41A	18.1	1.82	0.88	1906	4.26	2.06
Did not participate in a hobby club	BYS41H	82.9	1.35	0.86	1900	2.44	1.56
Use computer as a resource to learn things of interest at least once a week	BYS45C	48.4	1.97	1.17	1822	2.82	1.68
Watch more than 2 hrs of TV or videotapes/DVDs per weekday	BYS48A	41.7	1.76	1.16	1813	2.31	1.52
Being able to give own children better opportunities somewhat or very important	BYS54G	77.1	1.18	0.97	1883	1.49	1.22
Expect to finish college	STEXPECT	39.0	1.55	1.11	1920	1.95	1.39
Plan to continue education right after high school	BYS57	88.8	1.14	0.73	1878	2.46	1.57
Hope to receive an athletic scholarship	BYS61	75.1	1.62	1.39	969	1.36	1.16
At age 30 exp to be a manager	BYOCC30	2.2	0.43	0.35	1774	1.57	1.25
At age 30 exp to be in the military	BYOCC30	0.7	0.25	0.19	1774	1.68	1.30
At age 30 exp to be an operative	BYOCC30	0.1	0.06	0.06	1774	1.14	1.07
At age 30 exp to be a clergyman	BYOCC30	25.3	1.34	1.03	1774	1.70	1.30
At age 30 exp to be a technician	BYOCC30	2.4	0.40	0.36	1774	1.21	1.10
At age 30 doesn't know what to be	BYOCC30	34.2	1.01	1.13	1774	0.80	0.89
English is native language	STLANG	93.9	1.16	0.55	1920	4.50	2.12
Among close friends, somewhat or very important that they have a regular job	BY90K	72.0	1.54	1.18	1445	1.69	1.30
SUMMARY STATISTICS							
Mean						2.43	1.51
Minimum						0.80	0.89
Median						2.13	1.46
Maximum						5.19	2.28
Standard deviation						1.23	0.38

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K–35. Student design effects – other private

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Student lives in the South	BYREGION	44.2	3.42	1.33	1403	6.67	2.58
Student born in 1986	DOBIRTHP	56.8	1.70	1.33	1392	1.63	1.28
Student lives with father and mother	BYFCOMP	74.0	1.70	1.17	1403	2.10	1.45
Reading test number-right score	BYTXRIRR	34.3	0.68	0.25	1403	7.50	2.74
Mathematics test number-right score	BYXMIRR	43.1	0.80	0.31	1403	6.79	2.61
Composite achievement test highest quartile	BYXCQU	43.6	3.26	1.32	1403	6.05	2.46
Agree or strongly agree that school rules are fair	BYS21B	64.9	2.39	1.32	1305	3.27	1.81
Never was hit the first semester	BYS22E	79.9	1.21	1.10	1322	1.21	1.10
Someone bullied or picked on student at least once	BYS22H	15.6	1.29	1.00	1320	1.66	1.29
High school program is general	SCHPROG	22.5	3.39	1.11	1403	9.25	3.04
Average number of hours spent on homework each week out of school	BYS34B	8.4	0.49	0.19	1359	6.74	2.60
Average number of hours spent on English homework each week out of school	BYS36B	3.0	0.14	0.08	1315	2.80	1.67
Good grades not important	BYS37	1.6	0.39	0.34	1362	1.27	1.13
Never come to class without books	BYS38B	56.9	2.11	1.37	1304	2.37	1.54
Participated in band, orchestra, chorus, or choir	BYS41A	33.9	3.61	1.28	1359	7.88	2.81
Did not participate in a hobby club	BYS41H	85.2	2.14	0.97	1352	4.89	2.21
Use computer as a resource to learn things of interest at least once a week	BYS45C	42.6	2.22	1.38	1292	2.60	1.61
Watch more than 2 hrs of TV or videotapes/DVDs per weekday	BYS48A	33.7	2.47	1.33	1265	3.44	1.86
Being able to give own children better opportunities somewhat or very important	BYS54G	71.5	1.68	1.25	1307	1.81	1.35
Expect to finish college	STEXPECT	32.7	1.69	1.25	1403	1.81	1.35
Plan to continue education right after high school	BYS57	79.5	2.22	1.11	1313	3.96	1.99
Hope to receive an athletic scholarship	BYS61	63.5	2.53	1.95	608	1.67	1.29
At age 30 exp to be a manager	BYOCC30	3.1	0.64	0.50	1211	1.65	1.29
At age 30 exp to be in the military	BYOCC30	0.6	0.20	0.22	1211	0.82	0.90
At age 30 exp to be an operative	BYOCC30	0.4	0.25	0.18	1211	1.99	1.41
At age 30 exp to be a clergyman	BYOCC30	26.5	1.89	1.27	1211	2.23	1.49
At age 30 exp to be a technician	BYOCC30	2.0	0.46	0.41	1211	1.29	1.14
At age 30 doesn't know what to be	BYOCC30	37.0	1.89	1.39	1211	1.85	1.36
English is native language	STLANG	89.4	1.91	0.82	1403	5.41	2.33
Among close friends, somewhat or very important that they have a regular job	BYS90K	71.1	2.65	1.50	918	3.13	1.77
SUMMARY STATISTICS							
Mean						3.53	1.78
Minimum						0.82	0.90
Median						2.48	1.58
Maximum						9.25	3.04
Standard deviation						2.38	0.60

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-36. Student design effects – low socioeconomic status (SES) quartile

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Student lives in the South	BYREGION	36.7	1.42	0.80	3635	3.16	1.78
Student born in 1986	DOBIRTHP	49.3	1.05	0.83	3620	1.59	1.26
Student lives with father and mother	BYFCOMP	44.6	1.07	0.82	3635	1.68	1.30
Reading test number-right score	BYTXRIRR	24.4	0.23	0.15	3635	2.50	1.58
Mathematics test number-right score	BYTXMIRR	31.0	0.28	0.18	3635	2.53	1.59
Composite achievement test highest quartile	BYTXCQU	9.3	0.65	0.48	3635	1.85	1.36
Agree or strongly agree that school rules are fair	BYS21B	51.7	1.15	0.86	3397	1.79	1.34
Never was hit the first semester	BYS22E	78.7	0.90	0.70	3413	1.64	1.28
Someone bullied or picked on student at least once	BYS22H	19.6	0.85	0.68	3442	1.59	1.26
High school program is general	SCHPROG	42.8	1.04	0.82	3635	1.59	1.26
Average number of hours spent on homework each week out of school	BYS34B	4.7	0.11	0.09	3459	1.51	1.23
Average number of hours spent on English homework each week out of school	BYS36B	2.4	0.07	0.06	3158	1.42	1.19
Good grades not important	BYS37	1.6	0.23	0.21	3538	1.21	1.10
Never come to class without books	BYS38B	48.6	1.13	0.86	3377	1.73	1.31
Participated in band, orchestra, chorus, or choir	BYS41A	15.6	0.75	0.61	3503	1.51	1.23
Did not participate in a hobby club	BYS41H	93.3	0.50	0.42	3491	1.39	1.18
Use computer as a resource to learn things of interest at least once a week	BYS45C	37.8	1.03	0.84	3306	1.50	1.22
Watch more than 2 hrs of TV or videotapes/DVDs per weekday	BYS48A	62.3	1.02	0.85	3264	1.43	1.20
Being able to give own children better opportunities somewhat or very important	BYS54G	83.6	0.74	0.64	3384	1.34	1.16
Expect to finish college	STEXPECT	33.4	0.89	0.78	3635	1.30	1.14
Plan to continue education right after high school	BYS57	61.4	1.04	0.88	3042	1.39	1.18
Hope to receive an athletic scholarship	BYS61	71.5	1.68	1.30	1203	1.66	1.29
At age 30 exp to be a manager	BYOCC30	1.4	0.27	0.21	3032	1.59	1.26
At age 30 exp to be in the military	BYOCC30	0.6	0.15	0.14	3032	1.11	1.05
At age 30 exp to be an operative	BYOCC30	0.7	0.17	0.15	3032	1.26	1.12
At age 30 exp to be a clergyman	BYOCC30	17.6	0.88	0.69	3032	1.61	1.27
At age 30 exp to be a technician	BYOCC30	3.6	0.41	0.34	3032	1.45	1.20
At age 30 doesn't know what to be	BYOCC30	38.4	1.12	0.88	3032	1.61	1.27
English is native language	STLANG	71.2	1.44	0.75	3635	3.68	1.92
Among close friends, somewhat or very important that they have a regular job	BY90K	83.2	0.96	0.80	2196	1.45	1.21
SUMMARY STATISTICS							
Mean						1.70	1.29
Minimum						1.11	1.05
Median						1.59	1.26
Maximum						3.68	1.92
Standard deviation						0.56	0.19

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K–37. Student design effects – middle socioeconomic status (SES) quartiles

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT	
Student lives in the South	BYREGION	32.8	0.87	0.55	7388	2.53	1.59	
Student born in 1986	DOBIRTHP	58.8	0.73	0.57	7365	1.60	1.27	
Student lives with father and mother	BYFCOMP	54.6	0.72	0.58	7388	1.55	1.24	
Reading test number-right score	BYTXRIRR	29.3	0.17	0.11	7388	2.38	1.54	
Mathematics test number-right score	BYTXMIRR	36.8	0.21	0.13	7388	2.69	1.64	
Composite achievement test highest quartile	BYXCQU	21.2	0.67	0.48	7388	1.97	1.40	
Agree or strongly agree that school rules are fair	BYS21B	52.5	0.88	0.60	7020	2.18	1.48	
Never was hit the first semester	BYS22E	77.3	0.62	0.50	7067	1.56	1.25	
Someone bullied or picked on student at least once	BYS22H	20.3	0.57	0.48	7103	1.41	1.19	
High school program is general	SCHPROG	40.8	0.77	0.57	7388	1.83	1.35	
Average number of hours spent on homework each week out of school	BYS34B	5.3	0.08	0.06	7180	1.62	1.27	
Average number of hours spent on English homework each week out of school	BYS36B	2.4	0.05	0.04	6664	1.85	1.36	
Good grades not important	BYS37	1.4	0.18	0.14	7276	1.66	1.29	
Never come to class without books	BYS38B	53.1	0.78	0.60	7015	1.70	1.30	
Participated in band, orchestra, chorus, or choir	BYS41A	21.6	0.64	0.48	7247	1.73	1.31	
Did not participate in a hobby club	BYS41H	91.2	0.39	0.33	7208	1.38	1.18	
Use computer as a resource to learn things of interest at least once a week	BYS45C	41.8	0.75	0.59	6944	1.63	1.28	
Watch more than 2 hrs of TV or videotapes/DVDs per weekday	BYS48A	53.7	0.76	0.60	6872	1.61	1.27	
Being able to give own children better opportunities somewhat or very important	BYS54G	81.6	0.58	0.46	7047	1.58	1.26	
Expect to finish college	STEXPECT	37.2	0.70	0.56	7388	1.57	1.25	
Plan to continue education right after high school	BYS57	69.4	0.74	0.56	6717	1.73	1.32	
Hope to receive an athletic scholarship	BYS61	74.4	1.01	0.79	3013	1.62	1.27	
At age 30 exp to be a manager	BYOCC30	1.9	0.21	0.17	6555	1.49	1.22	
At age 30 exp to be in the military	BYOCC30	1.1	0.15	0.13	6555	1.35	1.16	
At age 30 exp to be an operative	BYOCC30	0.8	0.17	0.11	6555	2.36	1.54	
At age 30 exp to be a clergyman	BYOCC30	19.8	0.59	0.49	6555	1.42	1.19	
At age 30 exp to be a technician	BYOCC30	3.5	0.26	0.23	6555	1.36	1.17	
At age 30 doesn't know what to be	BYOCC30	33.4	0.67	0.58	6555	1.30	1.14	
English is native language	STLANG	90.3	0.46	0.34	7388	1.83	1.35	
Among close friends, somewhat or very important that they have a regular job	BYS90K	81.2	0.69	0.55	5045	1.58	1.26	
SUMMARY STATISTICS								
Mean						1.73	1.31	
Minimum						1.30	1.14	
Median						1.62	1.27	
Maximum						2.69	1.64	
Standard deviation						0.36	0.13	

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-38. Student design effects –high socioeconomic status (SES) quartile

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT	
Student lives in the South	BYREGION	34.9	1.48	0.72	4339	4.17	2.04	
Student born in 1986	DOBIRTHP	62.7	0.96	0.74	4323	1.70	1.30	
Student lives with father and mother	BYFCOMP	73.4	0.90	0.67	4339	1.81	1.35	
Reading test number-right score	BYTXRIRR	35.0	0.22	0.13	4339	2.70	1.64	
Mathematics test number-right score	BYXMIRR	44.2	0.28	0.17	4339	2.87	1.69	
Composite achievement test highest quartile	BYXCQU	48.4	1.20	0.76	4339	2.49	1.58	
Agree or strongly agree that school rules are fair	BYS21B	59.6	1.07	0.77	4077	1.93	1.39	
Never was hit the first semester	BYS22E	81.3	0.77	0.61	4110	1.62	1.27	
Someone bullied or picked on student at least once	BYS22H	20.6	0.80	0.63	4109	1.61	1.27	
High school program is general	SCHPROG	29.9	1.13	0.70	4339	2.62	1.62	
Average number of hours spent on homework each week out of school	BYS34B	7.3	0.16	0.10	4264	2.58	1.61	
Average number of hours spent on English homework each week out of school	BYS36B	2.7	0.06	0.04	4091	1.94	1.39	
Good grades not important	BYS37	1.1	0.21	0.16	4272	1.70	1.31	
Never come to class without books	BYS38B	51.6	1.05	0.78	4090	1.80	1.34	
Participated in band, orchestra, chorus, or choir	BYS41A	27.1	1.02	0.68	4261	2.24	1.50	
Did not participate in a hobby club	BYS41H	86.5	0.79	0.53	4243	2.25	1.50	
Use computer as a resource to learn things of interest at least once a week	BYS45C	47.9	0.97	0.78	4067	1.53	1.24	
Watch more than 2 hrs of TV or videotapes/DVDs per weekday	BYS48A	40.9	1.12	0.77	4027	2.08	1.44	
Being able to give own children better opportunities somewhat or very important	BYS54G	74.4	0.88	0.67	4206	1.71	1.31	
Expect to finish college	STEXPECT	35.4	0.91	0.73	4339	1.58	1.26	
Plan to continue education right after high school	BYS57	84.2	0.73	0.56	4213	1.69	1.30	
Hope to receive an athletic scholarship	BYS61	72.1	1.28	1.02	1926	1.56	1.25	
At age 30 exp to be a manager	BYOCC30	2.4	0.31	0.25	3933	1.62	1.27	
At age 30 exp to be in the military	BYOCC30	0.9	0.22	0.15	3933	2.27	1.51	
At age 30 exp to be an operative	BYOCC30	0.0	0.00	0.01	3933	#	#	
At age 30 exp to be a clergyman	BYOCC30	24.1	0.88	0.68	3933	1.67	1.29	
At age 30 exp to be a technician	BYOCC30	2.8	0.36	0.26	3933	1.84	1.36	
At age 30 doesn't know what to be	BYOCC30	33.5	1.12	0.75	3933	2.22	1.49	
English is native language	STLANG	92.0	0.55	0.41	4339	1.78	1.34	
Among close friends, somewhat or very important that they have a regular job	BYS90K	71.9	1.13	0.79	3231	2.03	1.42	
SUMMARY STATISTICS								
Mean						1.99	1.39	
Minimum						0.13	0.36	
Median						1.82	1.35	
Maximum						4.17	2.04	
Standard deviation						0.65	0.26	

#The design effect is undefined because the estimate is 100.00.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K–39. Student design effects –urban

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT	
Student lives in the South	BYREGION	35.8	1.27	0.67	5115	3.60	1.90	
Student born in 1986	DOBIRTHP	57.5	0.96	0.69	5099	1.91	1.38	
Student lives with father and mother	BYFCOMP	52.8	1.24	0.70	5115	3.15	1.78	
Reading test number-right score	BYTXRIRR	28.4	0.38	0.14	5115	7.50	2.74	
Mathematics test number-right score	BYTXMIRR	35.5	0.48	0.17	5115	8.06	2.84	
Composite achievement test highest quartile	BYXCQU	21.8	1.34	0.58	5115	5.42	2.33	
Agree or strongly agree that school rules are fair	BYS21B	52.0	1.18	0.72	4770	2.68	1.64	
Never was hit the first semester	BYS22E	80.4	0.78	0.57	4826	1.85	1.36	
Someone bullied or picked on student at least once	BYS22H	16.6	0.64	0.54	4841	1.42	1.19	
High school program is general	SCHPROG	38.0	1.22	0.68	5115	3.24	1.80	
Average number of hours spent on homework each week out of school	BYS34B	6.1	0.14	0.09	4932	2.73	1.65	
Average number of hours spent on English homework each week out of school	BYS36B	2.7	0.07	0.05	4692	2.36	1.54	
Good grades not important	BYS37	1.2	0.21	0.16	4996	1.74	1.32	
Never come to class without books	BYS38B	48.7	0.94	0.72	4767	1.69	1.30	
Participated in band, orchestra, chorus, or choir	BYS41A	18.9	0.96	0.56	4951	2.98	1.73	
Did not participate in a hobby club	BYS41H	89.3	0.71	0.44	4929	2.64	1.62	
Use computer as a resource to learn things of interest at least once a week	BYS45C	44.5	1.22	0.73	4695	2.85	1.69	
Watch more than 2 hrs of TV or videotapes/DVDs per weekday	BYS48A	55.7	1.16	0.73	4597	2.49	1.58	
Being able to give own children better opportunities somewhat or very important	BYS54G	82.5	0.78	0.55	4790	2.03	1.43	
Expect to finish college	STEXPECT	35.8	0.86	0.67	5115	1.67	1.29	
Plan to continue education right after high school	BYS57	73.3	0.87	0.65	4682	1.83	1.35	
Hope to receive an athletic scholarship	BYS61	73.3	1.34	0.98	2035	1.87	1.37	
At age 30 exp to be a manager	BYOCC30	2.6	0.31	0.24	4379	1.70	1.30	
At age 30 exp to be in the military	BYOCC30	0.9	0.19	0.14	4379	1.86	1.36	
At age 30 exp to be an operative	BYOCC30	0.1	0.08	0.06	4379	2.05	1.43	
At age 30 exp to be a clergyman	BYOCC30	22.8	0.81	0.63	4379	1.63	1.28	
At age 30 exp to be a technician	BYOCC30	3.3	0.38	0.27	4379	1.97	1.41	
At age 30 doesn't know what to be	BYOCC30	35.3	0.96	0.72	4379	1.77	1.33	
English is native language	STLANG	78.7	1.50	0.57	5115	6.90	2.63	
Among close friends, somewhat or very important that they have a regular job	BYS90K	78.1	1.21	0.72	3322	2.83	1.68	
SUMMARY STATISTICS								
Mean						2.88	1.64	
Minimum						1.42	1.19	
Median						2.20	1.48	
Maximum						8.06	2.84	
Standard deviation						1.76	0.44	

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-40. Student design effects – suburban

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT
Student lives in the South	BYREGION	29.7	0.89	0.53	7399	2.78	1.67
Student born in 1986	DOBIRTHP	58.3	0.80	0.57	7369	1.95	1.40
Student lives with father and mother	BYFCOMP	59.4	0.74	0.57	7399	1.66	1.29
Reading test number-right score	BYTXRIRR	29.9	0.24	0.11	7399	4.39	2.10
Mathematics test number-right score	BYTXMIRR	38.0	0.30	0.14	7399	4.75	2.18
Composite achievement test highest quartile	BYTXCQU	26.9	0.96	0.52	7399	3.44	1.86
Agree or strongly agree that school rules are fair	BYS21B	54.9	0.93	0.59	7030	2.45	1.57
Never was hit the first semester	BYS22E	78.6	0.58	0.49	7052	1.40	1.19
Someone bullied or picked on student at least once	BYS22H	21.1	0.64	0.48	7093	1.73	1.32
High school program is general	SCHPROG	38.2	0.87	0.57	7399	2.37	1.54
Average number of hours spent on homework each week out of school	BYS34B	5.7	0.12	0.07	7202	3.13	1.77
Average number of hours spent on English homework each week out of school	BYS36B	2.4	0.05	0.04	6687	2.23	1.49
Good grades not important	BYS37	1.4	0.17	0.14	7279	1.58	1.26
Never come to class without books	BYS38B	52.0	0.91	0.60	7014	2.34	1.53
Participated in band, orchestra, chorus, or choir	BYS41A	21.9	0.70	0.49	7262	2.05	1.43
Did not participate in a hobby club	BYS41H	90.9	0.46	0.34	7223	1.84	1.36
Use computer as a resource to learn things of interest at least once a week	BYS45C	42.0	0.73	0.59	6952	1.53	1.24
Watch more than 2 hrs of TV or videotapes/DVDs per weekday	BYS48A	50.6	0.76	0.60	6911	1.58	1.26
Being able to give own children better opportunities somewhat or very important	BYS54G	79.4	0.61	0.48	7112	1.63	1.28
Expect to finish college	STEXPECT	35.8	0.63	0.56	7399	1.28	1.13
Plan to continue education right after high school	BYS57	72.1	0.73	0.55	6748	1.78	1.33
Hope to receive an athletic scholarship	BYS61	72.8	1.13	0.82	2973	1.91	1.38
At age 30 exp to be a manager	BYOCC30	1.7	0.19	0.16	6593	1.44	1.20
At age 30 exp to be in the military	BYOCC30	0.9	0.15	0.12	6593	1.54	1.24
At age 30 exp to be an operative	BYOCC30	0.6	0.13	0.09	6593	1.97	1.40
At age 30 exp to be a clergyman	BYOCC30	19.6	0.61	0.49	6593	1.54	1.24
At age 30 exp to be a technician	BYOCC30	3.2	0.26	0.22	6593	1.47	1.21
At age 30 doesn't know what to be	BYOCC30	34.5	0.81	0.59	6593	1.89	1.38
English is native language	STLANG	87.0	0.70	0.39	7399	3.23	1.80
Among close friends, somewhat or very important that they have a regular job	BY90K	79.4	0.73	0.56	5244	1.71	1.31
SUMMARY STATISTICS							
Mean						2.15	1.44
Minimum						1.28	1.13
Median						1.87	1.37
Maximum						4.75	2.18
Standard deviation						0.86	0.27

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

Table K-41. Student design effects – rural

Survey item (or composite variable)	Variable	Estimate	Design standard error	Simple random sample standard error	N	DEFF	DEFT	
Student lives in the South	BYREGION	43.9	1.66	0.93	2848	3.17	1.78	
Student born in 1986	DOBIRTHP	55.1	1.11	0.93	2840	1.41	1.19	
Student lives with father and mother	BYFCOMP	56.5	1.14	0.93	2848	1.51	1.23	
Reading test number-right score	BYTXRIRR	30.1	0.33	0.18	2848	3.35	1.83	
Mathematics test number-right score	BYTXMIRR	37.9	0.42	0.21	2848	3.80	1.95	
Composite achievement test highest quartile	BYXCQU	25.4	1.29	0.82	2848	2.49	1.58	
Agree or strongly agree that school rules are fair	BYS21B	55.2	1.42	0.96	2694	2.21	1.49	
Never was hit the first semester	BYS22E	76.2	1.33	0.82	2712	2.66	1.63	
Someone bullied or picked on student at least once	BYS22H	23.2	1.13	0.81	2720	1.94	1.39	
High school program is general	SCHPROG	40.2	1.34	0.92	2848	2.12	1.46	
Average number of hours spent on homework each week out of school	BYS34B	5.1	0.17	0.10	2769	2.91	1.71	
Average number of hours spent on English homework each week out of school	BYS36B	2.2	0.09	0.06	2534	2.37	1.54	
Good grades not important	BYS37	1.5	0.23	0.23	2811	1.00	1.00	
Never come to class without books	BYS38B	55.1	1.51	0.96	2701	2.50	1.58	
Participated in band, orchestra, chorus, or choir	BYS41A	24.3	1.27	0.81	2798	2.45	1.56	
Did not participate in a hobby club	BYS41H	91.4	0.67	0.53	2790	1.60	1.27	
Use computer as a resource to learn things of interest at least once a week	BYS45C	40.0	1.14	0.95	2670	1.44	1.20	
Watch more than 2 hrs of TV or videotapes/DVDs per weekday	BYS48A	52.8	1.28	0.97	2655	1.74	1.32	
Being able to give own children better opportunities somewhat or very important	BYS54G	79.2	0.90	0.78	2735	1.35	1.16	
Expect to finish college	STEXPECT	35.9	1.07	0.90	2848	1.41	1.19	
Plan to continue education right after high school	BYS57	67.4	1.35	0.93	2542	2.10	1.45	
Hope to receive an athletic scholarship	BYS61	74.0	1.22	1.30	1134	0.88	0.94	
At age 30 exp to be a manager	BYOCC30	1.6	0.27	0.25	2548	1.22	1.11	
At age 30 exp to be in the military	BYOCC30	1.1	0.22	0.20	2548	1.12	1.06	
At age 30 exp to be an operative	BYOCC30	1.1	0.36	0.21	2548	2.89	1.70	
At age 30 exp to be a clergyman	BYOCC30	19.0	0.91	0.78	2548	1.38	1.18	
At age 30 exp to be a technician	BYOCC30	3.8	0.44	0.38	2548	1.36	1.17	
At age 30 doesn't know what to be	BYOCC30	33.9	0.93	0.94	2548	0.98	0.99	
English is native language	STLANG	94.5	0.47	0.43	2848	1.22	1.10	
Among close friends, somewhat or very important that they have a regular job	BYS90K	79.5	1.15	0.93	1906	1.54	1.24	
SUMMARY STATISTICS								
Mean						1.94	1.37	
Minimum						0.88	0.94	
Median						1.67	1.29	
Maximum						3.80	1.95	
Standard deviation						0.78	0.27	

SOURCE: U.S. Department of Education, National Center for Education Statistics, Education Longitudinal Study of 2002 (ELS:2002), Public-use data file.

