

Appendix B

Critical Items: Student Questionnaire

BYS1	Name and address
BYS1A	Has a phone number
BYS1B	Student phone number
BYS2	Mother/female guardian's name
BYS2A	Is mother/female guardian alive
BYS3	Mother and student at same address
BYS3A	Mother/female guardian's address
BYS3B	Mother/female guardian has a phone number
BYS3C	Mother/female guardian's phone number
BYS4A	Mother/female guardian's employment status
BYS4B	Mother/female guardian's occupation
BYS4C	Mother/female guardian's job duties
BYS4D	Mother/female guardian's place of work
BYS4E	Mother/female guardian's employer's product
BYS5	Father/male guardian's name
BYS5A	Is mother/female guardian alive
BYS6	Father and student at same address
BYS6A	Father/male guardian's address
BYS6B	Father/male guardian has a phone number
BYS6C	Father/male guardian's phone number
BYS7A	Father/male guardian's employment status
BYS7B	Father/male guardian's occupation
BYS7C	Father/male guardian's job duties
BYS7D	Father/male guardian's place of work
BYS7E	Father/male guardian's employer's product
BYS8	Who lives in household with student
BYS9	Family friend/relative's name and address
BYS9A	Family friend/relative has a phone number
BYS9B	Family friend/relative's phone number
BYS9C	Family friend or relative
BYS11	Month, day, and year of birth
BYS12	Sex of student
BYS13	Expected tenth grade school
BYS21	Any language other than English spoken in home
BYS22	Language usually spoken in home
BYS31A	Student's racial/ethnic background
BYS31B	Asian/Pacific Islander subdivision
BYS31C	Hispanic subdivision
BYS31D	Hispanic race
BYS34	Parent levels of education
BYS51	Talked to counselor, teacher, other adult
BYS81	Course grades since sixth grade

Appendix C

Record Layout for NELS:88 Eighth Grade Student Questionnaire

Question Number	Variable Name	Format	Length	Start Column	End Column
STU_ID	STU_ID	I	7	1	7
SCH_ID	SCH_ID	I	5	1	5
STRAT_ID	STRAT_ID	I	2	1	2
2A	BYS2A	I	1	8	8
4A	BYS4A	I	1	9	9
4OCCUPTN	BYS4OCC	I	2	10	11
5A	BYS5A	I	1	12	12
7A	BYS7A	I	1	13	13
7OCCUPTN	BYS7OCC	I	2	14	15
8A	BYS8A	I	1	16	16
8B	BYS8B	I	1	17	17
8C	BYS8C	I	1	18	18
8D	BYS8D	I	1	19	19
8E	BYS8E	I	1	20	20
8F	BYS8F	I	1	21	21
8G	BYS8G	I	1	22	22
8H	BYS8H	I	1	23	23
8I	BYS8I	I	1	24	24
12	BYS12	I	1	25	25
14	BYS14	I	1	26	26
15	BYS15	I	1	27	27
16	BYS16	I	1	28	28
17	BYS17	I	1	29	29
18	BYS18	I	2	30	31
19	BYS19	I	2	32	33
20	BYS20	I	2	34	35
21	BYS21	I	1	36	36
22	BYS22	I	2	37	38
23	BYS23	I	2	39	40
24	BYS24	I	2	41	42
25A	BYS25A	I	1	43	43
25B	BYS25B	I	1	44	44
25C	BYS25C	I	1	45	45
25D	BYS25D	I	1	46	46
26A	BYS26A	I	1	47	47
26B	BYS26B	I	1	48	48
26C	BYS26C	I	1	49	49
26D	BYS26D	I	1	50	50
26E	BYS26E	I	1	51	51
26F	BYS26F	I	1	52	52
26G	BYS26G	I	1	53	53
26H	BYS26H	I	1	54	54

*Base Year: Student Component
Data File User's Manual*

26I	BYS26I	I	1	55	55
27A	BYS27A	I	1	56	56
27B	BYS27B	I	1	57	57
27C	BYS27C	I	1	58	58
27D	BYS27D	I	1	59	59
28A.1	BYS28A1	I	1	60	60
28A.2	BYS28A2	I	1	61	61
28A.3	BYS28A3	I	1	62	62
28B.1	BYS28B1	I	1	63	63
28B.2	BYS28B2	I	1	64	64
28B.3	BYS28B3	I	1	65	65
28C.1	BYS28C1	I	1	66	66
28C.2	BYS28C2	I	1	67	67
28C.3	BYS28C3	I	1	68	68
28D.1	BYS28D1	I	1	69	69
28D.2	BYS28D2	I	1	70	70
28D.3	BYS28D3	I	1	71	71
28E.1	BYS28E1	I	1	72	72
28E.2	BYS28E2	I	1	73	73
28E.3	BYS28E3	I	1	74	74
28F.1	BYS28F1	I	1	75	75
28F.2	BYS28F2	I	1	76	76
28F.3	BYS28F3	I	1	77	77
29	BYS29	I	1	78	78
30A	BYS30A	I	1	79	79
30B	BYS30B	I	1	80	80
30C	BYS30C	I	1	81	81
30D	BYS30D	I	1	82	82
30E	BYS30E	I	1	83	83
30F	BYS30F	I	1	84	84
30G	BYS30G	I	1	85	85
30H	BYS30H	I	1	86	86
31A	BYS31A	I	1	87	87
31B	BYS31B	I	2	88	89
31C	BYS31C	I	1	90	90
31D	BYS31D	I	1	91	91
32	BYS32	I	2	92	93
33	BYS33	I	2	94	95
34A	BYS34A	I	2	96	97
34B	BYS34B	I	2	98	99
35A	BYS35A	I	1	100	100
35B	BYS35B	I	1	101	101
35C	BYS35C	I	1	102	102
35D	BYS35D	I	1	103	103
35E	BYS35E	I	1	104	104

35F	BYS35F	I	1	105	105
35G	BYS35G	I	1	106	106
35H	BYS35H	I	1	107	107
35I	BYS35I	I	1	108	108
35J	BYS35J	I	1	109	109
35K	BYS35K	I	1	110	110
35L	BYS35L	I	1	111	111
35M	BYS35M	I	1	112	112
35N	BYS35N	I	1	113	113
35O	BYS35O	I	1	114	114
35P	BYS35P	I	1	115	115
36A	BYS36A	I	1	116	116
36B	BYS36B	I	1	117	117
36C	BYS36C	I	1	118	118
37A	BYS37A	I	1	119	119
37B	BYS37B	I	1	120	120
37C	BYS37C	I	1	121	121
37D	BYS37D	I	1	122	122
38A	BYS38A	I	1	123	123
38B	BYS38B	I	1	124	124
38C	BYS38C	I	1	125	125
38D	BYS38D	I	1	126	126
39A	BYS39A	I	1	127	127
39B	BYS39B	I	1	128	128
39C	BYS39C	I	1	129	129
40A	BYS40A	I	1	130	130
40B	BYS40B	I	1	131	131
40C	BYS40C	I	1	132	132
40D	BYS40D	I	1	133	133
40E	BYS40E	I	1	134	134
40F	BYS40F	I	1	135	135
40G	BYS40G	I	1	136	136
40H	BYS40H	I	1	137	137
41	BYS41	I	1	138	138
42A	BYS42A	I	2	139	140
42B	BYS42B	I	2	141	142
43	BYS43	I	1	143	143
44A	BYS44A	I	1	144	144
44B	BYS44B	I	1	145	145
44C	BYS44C	I	1	146	146
44D	BYS44D	I	1	147	147
44E	BYS44E	I	1	148	148
44F	BYS44F	I	1	149	149
44G	BYS44G	I	1	150	150
44H	BYS44H	I	1	151	151

*Base Year: Student Component
Data File User's Manual*

44I	BYS44I	I	1	152	152
44J	BYS44J	I	1	153	153
44K	BYS44K	I	1	154	154
44L	BYS44L	I	1	155	155
44M	BYS44M	I	1	156	156
45	BYS45	I	2	157	158
46	BYS46	I	1	159	159
47	BYS47	I	1	160	160
48A	BYS48A	I	2	161	162
48B	BYS48B	I	2	163	164
49	BYS49	I	2	165	166
50A	BYS50A	I	1	167	167
50B	BYS50B	I	1	168	168
50C	BYS50C	I	1	169	169
50D	BYS50D	I	1	170	170
50E	BYS50E	I	1	171	171
50F	BYS50F	I	1	172	172
51A.A	BYS51AA	I	1	173	173
51A.B	BYS51AB	I	1	174	174
51A.C	BYS51AC	I	1	175	175
51B.A	BYS51BA	I	1	176	176
51B.B	BYS51BB	I	1	177	177
51B.C	BYS51BC	I	1	178	178
51C.A	BYS51CA	I	1	179	179
51C.B	BYS51CB	I	1	180	180
51C.C	BYS51CC	I	1	181	181
51D.A	BYS51DA	I	1	182	182
51D.B	BYS51DB	I	1	183	183
51D.C	BYS51DC	I	1	184	184
51E.A	BYS51EA	I	1	185	185
51E.B	BYS51EB	I	1	186	186
51E.C	BYS51EC	I	1	187	187
51F.A	BYS51FA	I	1	188	188
51F.B	BYS51FB	I	1	189	189
51F.C	BYS51FC	I	1	190	190
51G.A	BYS51GA	I	1	191	191
51G.B	BYS51GB	I	1	192	192
51G.C	BYS51GC	I	1	193	193
51H.A	BYS51HA	I	1	194	194
51H.B	BYS51HB	I	1	195	195
51H.C	BYS51HC	I	1	196	196
52	BYS52	I	2	197	198
53	BYS53	I	1	199	199
54	BYS54	I	2	200	201
55A	BYS55A	I	1	202	202

55B	BYS55B	I	1	203	203
55C	BYS55C	I	1	204	204
55D	BYS55D	I	1	205	205
55E	BYS55E	I	1	206	206
55F	BYS55F	I	1	207	207
56A	BYS56A	I	1	208	208
56B	BYS56B	I	1	209	209
56C	BYS56C	I	1	210	210
56D	BYS56D	I	1	211	211
56E	BYS56E	I	1	212	212
57A	BYS57A	I	1	213	213
57B	BYS57B	I	1	214	214
57C	BYS57C	I	1	215	215
58A	BYS58A	I	1	216	216
58B	BYS58B	I	1	217	217
58C	BYS58C	I	1	218	218
58D	BYS58D	I	1	219	219
58E	BYS58E	I	1	220	220
58F	BYS58F	I	1	221	221
58G	BYS58G	I	1	222	222
58H	BYS58H	I	1	223	223
58I	BYS58I	I	1	224	224
58J	BYS58J	I	1	225	225
58K	BYS58K	I	1	226	226
59A	BYS59A	I	1	227	227
59B	BYS59B	I	1	228	228
59C	BYS59C	I	1	229	229
59D	BYS59D	I	1	230	230
59E	BYS59E	I	1	231	231
59F	BYS59F	I	1	232	232
59G	BYS59G	I	1	233	233
59H	BYS59H	I	1	234	234
59I	BYS59I	I	1	235	235
59J	BYS59J	I	1	236	236
59K	BYS59K	I	1	237	237
59L	BYS59L	I	1	238	238
59M	BYS59M	I	1	239	239
60A	BYS60A	I	1	240	240
60B	BYS60B	I	1	241	241
60C	BYS60C	I	1	242	242
60D	BYS60D	I	1	243	243
61	BYS61	I	1	244	244
62	BYS62	I	1	245	245
63	BYS63	I	1	246	246
64	BYS64	I	1	247	247

*Base Year: Student Component
Data File User's Manual*

65	BYS65	I	2	248	249
66A	BYS66A	I	1	250	250
66B	BYS66B	I	1	251	251
66C	BYS66C	I	1	252	252
66D	BYS66D	I	1	253	253
67A	BYS67A	I	1	254	254
67B	BYS67B	I	1	255	255
67C	BYS67C	I	1	256	256
67A.A	BYS67AA	I	1	257	257
67A.B	BYS67AB	I	1	258	258
67A.C	BYS67AC	I	1	259	259
67A.D	BYS67AD	I	1	260	260
67B.A	BYS67BA	I	1	261	261
67B.B	BYS67BB	I	1	262	262
67B.C	BYS67BC	I	1	263	263
67B.D	BYS67BD	I	1	264	264
67B.E	BYS67BE	I	1	265	265
67B.F	BYS67BF	I	1	266	266
67B.G	BYS67BG	I	1	267	267
67B.H	BYS67BH	I	1	268	268
67C.A	BYS67CA	I	1	269	269
67C.B	BYS67CB	I	1	270	270
67C.C	BYS67CC	I	1	271	271
67C.D	BYS67CD	I	1	272	272
67C.E	BYS67CE	I	1	273	273
67D.A	BYS67DA	I	1	274	274
67D.B	BYS67DB	I	1	275	275
67D.C	BYS67DC	I	1	276	276
67D.D	BYS67DD	I	1	277	277
68A	BYS68A	I	1	278	278
68B	BYS68B	I	1	279	279
69A	BYS69A	I	1	280	280
69B	BYS69B	I	1	281	281
69C	BYS69C	I	1	282	282
70A	BYS70A	I	1	283	283
70B	BYS70B	I	1	284	284
70C	BYS70C	I	1	285	285
71A	BYS71A	I	1	286	286
71B	BYS71B	I	1	287	287
71C	BYS71C	I	1	288	288
72A	BYS72A	I	1	289	289
72B	BYS72B	I	1	290	290
72C	BYS72C	I	1	291	291
73	BYS73	I	1	292	292
74	BYS74	I	1	293	293

74A	BYS74A	I	1	294	294
74B	BYS74B	I	1	295	295
74C	BYS74C	I	1	296	296
74D	BYS74D	I	1	297	297
74E	BYS74E	I	1	298	298
74F	BYS74F	I	1	299	299
74G	BYS74G	I	1	300	300
74H	BYS74H	I	1	301	301
74I	BYS74I	I	1	302	302
75	BYS75	I	1	303	303
76	BYS76	I	1	304	304
77	BYS77	I	1	305	305
78A	BYS78A	I	1	306	306
78B	BYS78B	I	1	307	307
78C	BYS78C	I	1	308	308
79A	BYS79A	I	2	309	310
79B	BYS79B	I	2	311	312
79C	BYS79C	I	2	313	314
79D	BYS79D	I	2	315	316
79E	BYS79E	I	2	317	318
80	BYS80	I	1	319	319
81A	BYS81A	I	2	320	321
81B	BYS81B	I	2	322	323
81C	BYS81C	I	2	324	325
81D	BYS81D	I	2	326	327
82A	BYS82A	I	1	328	328
82B	BYS82B	I	1	329	329
82C	BYS82C	I	1	330	330
82D	BYS82D	I	1	331	331
82E	BYS82E	I	1	332	332
82F	BYS82F	I	1	333	333
82G	BYS82G	I	1	334	334
82H	BYS82H	I	1	335	335
82I	BYS82I	I	1	336	336
82J	BYS82J	I	1	337	337
82K	BYS82K	I	1	338	338
82L	BYS82L	I	1	339	339
82M	BYS82M	I	1	340	340
82N	BYS82N	I	1	341	341
82O	BYS82O	I	1	342	342
82P	BYS82P	I	1	343	343
82Q	BYS82Q	I	1	344	344
82R	BYS82R	I	1	345	345
82S	BYS82S	I	1	346	346
82T	BYS82T	I	1	347	347

*Base Year: Student Component
Data File User's Manual*

82U	BYS82U	I	1	348	348
83A	BYS83A	I	1	349	349
83B	BYS83B	I	1	350	350
83C	BYS83C	I	1	351	351
83D	BYS83D	I	1	352	352
83E	BYS83E	I	1	353	353
83F	BYS83F	I	1	354	354
83G	BYS83G	I	1	355	355
83H	BYS83H	I	1	356	356
83I	BYS83I	I	1	357	357
83J	BYS83J	I	1	358	358
WEIGHT	BYQWT	R	8.3	359	366
FLAG	BYTEQFLG	I	1	367	367
FLAG	BYPAQFLG	I	1	368	368
FLAG	BYTXPAFG	I	1	369	369
FLAG	BYTEPAFG	I	1	370	370
FLAG	BYTXFLG	I	1	371	371
FLAG	BYADMFLG	I	1	372	372
FLAG	BYIEPFLG	I	1	373	373
COMPOSITE	G8TYPE	I	1	374	374
COMPOSITE	G8CTRL	I	1	375	375
COMPOSITE	BYSCENRL	I	1	376	376
COMPOSITE	G8ENROL	I	1	377	377
COMPOSITE	G8URBAN	I	1	378	378
COMPOSITE	G8REGON	I	1	379	379
COMPOSITE	G8MINOR	I	1	380	380
COMPOSITE	G8LUNCH	I	1	381	381
COMPOSITE	NOMSECT	I	1	382	382
COMPOSITE	SEX	I	1	383	383
COMPOSITE	RACE	I	1	384	384
COMPOSITE	HISP	I	1	385	385
COMPOSITE	API	I	2	386	387
COMPOSITE	HEARIMP	I	1	388	388
COMPOSITE	HANDPAST	I	1	389	389
COMPOSITE	BYHANDPR	I	1	390	390
COMPOSITE	BYHANDTR	I	1	391	391
COMPOSITE	BIRTHMO	I	2	392	393
COMPOSITE	BIRTHYR	I	2	394	395
COMPOSITE	BYLOCUS1	R	4.2	396	399
COMPOSITE	BYLOCU1T	I	1	400	400
COMPOSITE	BYLOCUS2	R	4.2	401	404
COMPOSITE	BYLOCU2T	I	1	405	405
COMPOSITE	BYCNCPT1	R	4.2	406	409
COMPOSITE	BYCNCPT1T	I	1	410	410
COMPOSITE	BYCNCPT2	R	4.2	411	414

COMPOSITE	BYCNCP2T	I	1	415	415
COMPOSITE	BYSES	R	5.3	416	420
COMPOSITE	BYSESQ	I	1	421	421
COMPOSITE	BYPARED	I	1	422	422
COMPOSITE	BYFAMSIZ	I	2	423	424
COMPOSITE	BYFCOMP	I	1	425	425
COMPOSITE	BYPARMAR	I	2	426	427
COMPOSITE	BYFAMINC	I	2	428	429
COMPOSITE	BYHMLANG	I	1	430	430
COMPOSITE	BYPSEPLN	I	2	431	432
COMPOSITE	BYHOMEWK	I	2	433	434
COMPOSITE	BYLEP	I	1	435	435
COMPOSITE	BYLM	I	1	436	436
COMPOSITE	BYGRADS	R	2.1	437	438
COMPOSITE	BYGRADSQ	I	1	439	439
TST RSLTS	BYTXRNR	I	2	440	441
TST RSLTS	BYTXRNW	I	2	442	443
TST RSLTS	BYTXRNNA	I	2	444	445
TST RSLTS	BYTXRFS	R	6.3	446	451
TST RSLTS	BYTXRSTD	R	6.3	452	457
TST RSLTS	BYTXRIRR	R	6.3	458	463
TST RSLTS	BYTXRIRS	R	6.3	464	469
TST RSLTS	BYTXRQ	I	1	470	470
TST RSLTS	BYTXMNR	I	2	471	472
TST RSLTS	BYTXMNW	I	2	473	474
TST RSLTS	BYTXMNNA	I	2	475	476
TST RSLTS	BYTXMFS	R	6.3	477	482
TST RSLTS	BYTXMSTD	R	6.3	483	488
TST RSLTS	BYTXMIRR	R	6.3	489	494
TST RSLTS	BYTXMIRS	R	6.3	495	500
TST RSLTS	BYTXMQ	I	1	501	501
TST RSLTS	BYTXSNR	I	2	502	503
TST RSLTS	BYTXSNW	I	2	504	505
TST RSLTS	BYTXSNNA	I	2	506	507
TST RSLTS	BYTXSFS	R	6.3	508	513
TST RSLTS	BYTXSSTD	R	6.3	514	519
TST RSLTS	BYTXSIRR	R	6.3	520	525
TST RSLTS	BYTXSIRS	R	6.3	526	531
TST RSLTS	BYTXSQ	I	1	532	532
TST RSLTS	BYTXHNR	I	2	533	534
TST RSLTS	BYTXHNW	I	2	535	536
TST RSLTS	BYTXHNNA	I	2	537	538
TST RSLTS	BYTXHFS	R	6.3	539	544
TST RSLTS	BYTXHSTD	R	6.3	545	550
TST RSLTS	BYTXHIRR	R	6.3	551	556

*Base Year: Student Component
Data File User's Manual*

TST RSLTS	BYTXHIRS	R	6.3	557	562
TST RSLTS	BYTXHQ	I	1	563	563
TST RSLTS	BYTXCOMP	R	6.3	564	569
TST RSLTS	BYTXQURT	I	1	570	570
TST RSLTS	BYTXRPRO	I	1	571	571
TST RSLTS	BYTXMPRO	I	1	572	572

Appendix D

NELS:88 Base Year Student Data Weight, Flags, and Composite Variables

Each weight, flag, and composite variable is defined below and shown in the order in which it appears on the data tape. See Chapter III for a detailed discussion of weights and Chapter VII for a brief discussion of flags and composite variables. Composites have been constructed using all four components of NELS:88. Variable names indicate from which file values were taken: **BYS** for base year student, **BYP** for base year parent, **BYT** for base year teacher, and **BYSC** for base year school.

Weight

BYQWT is calculated from the design weight (**RAWWT**) for the student questionnaire adjusted for the fact that some of the selected students did not complete the questionnaire. **RAWWT** is the reciprocal of the conditional selection probability for the student, given that the school was selected into the base year sample, multiplied by his or her school's design weight.

Flags

The following flags indicate the completion or not of specified instruments for students who completed the student questionnaire. A value of 1 specifies that the instrument was completed, 0 that it was not.

- BYTEQFLG** 1 = At least one teacher questionnaire completed
0 = Did not have either teacher questionnaire completed
- BYPAQFLG** 1 = A parent questionnaire completed
0 = Did not have parent questionnaire completed
- BYTXPAFG** 1 = Student completed the tests and had a parent questionnaire completed
0 = Did not complete the test and have a parent questionnaire completed
- BYTEPAFG** 1 = Had a parent questionnaire completed and at least one
teacher questionnaire completed
0 = Did not have a parent questionnaire completed and at least one teacher
questionnaire completed
- BYTXFLG** 1 = Student completed the tests
0 = Did not complete the tests
- BYADMFLG** 1 = The administrator completed a school questionnaire
0 = A school questionnaire was not completed

BYIEPFLG indicates if the student is in an Individualized Education Program.

The values for **BYIEPFLG** are:

- 1 = The student had on file an Individualized Education Program and was reported to the Department of Education as belonging to one of the following handicap categories: deaf, hard of hearing, deaf-blind, or multiple handicap (only if hard of hearing was included as one of his or her impairments); AND the student is currently mainstreamed with regular hearing eighth grade students for English or mathematics classes
- 0 = Did not satisfy the above criteria

Composites

G8TYPE classifies the type of school by the grades spanned. It was coded using school data first. After the unique patterns of grade spans were determined, they were collapsed, creating the following categories. For example, G8TYPE = 1 includes schools that start with either pre-kindergarten, kindergarten, or grade 1 and that end with grade 8.

The responses to BYSC1A-N were compared to established patterns to determine the appropriate grade span category. If G8TYPE was missing, then it was coded using the QED (Quality Education Data) file as a second source.

The values for G8TYPE are:

- 1 = P or K or 1 through 8
- 2 = P or K or 1 through 12
- 3 = 6 or 7 or 8 through 12
- 4 = 3 or 4 or 5 through 8
- 5 = 6 through 8
- 6 = 7 through 8
- 7 = 7 through 9/8 through 9
- 8 = Missing

G8CTRL classifies the type of school into public, Catholic, or other private as reported by the school. The classification was collapsed from BYSC4. A few non-Catholic private schools were contacted to confirm their designation.

The values for G8CTRL are:

- 1 = Public school
- 2 = Catholic school
- 3 = Private school, other religious affiliation
- 4 = Private school, no religious affiliation

BYSCENRL categorizes the entire school enrollment as reported by the school. The values were created by collapsing the data from BYSC2 into categories. Missing data were then imputed from the actual enrollment reported on the QED file.

The values for BYSCENRL are:

- 1 = 1-199 students
- 2 = 200-399
- 3 = 400-599
- 4 = 600-799
- 5 = 800-999
- 6 = 1000-1199
- 7 = 1200+

G8ENROL categorizes the eighth grade enrollment as reported by the school. The values were created by collapsing the data from BYSC3 into categories. Missing data were then imputed from the QED file for eighth grade schools.

The values for G8ENROL are:

- 1 = 1-49 students
- 2 = 50-99
- 3 = 100-199
- 4 = 200-299
- 5 = 300-399
- 6 = 400+

G8URBAN classifies the urbanicity of the student's school. It was created directly from QED (Quality Education Data) data (position 199-199). The classifications are the Federal Information Processing Standards as used by the U.S. Census.

The values for G8URBAN are:

- 1 = Urban -- central city
- 2 = Suburban -- area surrounding a central city within a county constituting the MSA (Metropolitan Statistical Area)
- 3 = Rural -- outside MSA

G8REGON indicates in which of the four U.S. Census regions the school is located. It was created by recoding the sampled state of the eighth grade school into the four Census Bureau regions. For confidentiality reasons, this value was set to missing in rare instances.

The values for G8REGON are:

- 1 = Northeast -- New England and Middle Atlantic states
- 2 = North Central -- East North Central and West North Central states
- 3 = South -- South Atlantic, East South Central, and West South Central states
- 4 = West -- Mountain and Pacific states
- 8 = Missing

G8MINOR reflects the percentage of minority students in the eighth grade reported by the school. It was constructed by adding nonreserve code values of BYSC13A-D and categorizing the result. If the school questionnaire was missing or if BYSC13A-D was missing, G8MINOR was set to missing.

The values for G8MINOR are:

- 0 = None
- 1 = 1-5%
- 2 = 6-10%
- 3 = 11-20%
- 4 = 21-40%
- 5 = 41-60%
- 6 = 61-90%
- 7 = 91-100%
- 8 = Missing

G8LUNCH categorizes the percentage of free or reduced price lunch at the school calculated from the school questionnaire. It was constructed by dividing BYSC16A by BYSC2, multiplying by 100, rounding to the nearest whole number and coding the result. If the school questionnaire was missing or if BYSC16A was missing, G8LUNCH was set to missing.

The value for G8LUNCH are:

- 0 = None
- 1 = 1-5%
- 2 = 6-10%
- 3 = 11-20%
- 4 = 21-30%
- 5 = 31-50%
- 6 = 51-75%
- 7 = 76-100%
- 8 = Missing

NOMSECT is the classification of the school the student expects to attend for tenth grade. The student response to BYS13 was assigned a Permanent Identification Number from the QED (Quality Education Data) directory. This link to the QED data was then used to assign a value of public, Catholic, or other private to the first nominated tenth grade school.

The values for NOMSECT are:

- 1 = Public school
- 2 = Catholic school
- 3 = Other private school
- 8 = Missing, the student did not answer BYS13 or the school nominated could not be linked to data from QED

SEX was taken first from the "Your Background" (BYS12) section of the student questionnaire. If this source was missing or not available, then the value of the variable SEX assigned on the school roster was used. If SEX was still missing, it was imputed from the respondent's name. On any records for which this could not be done unambiguously, this variable had a value of 1 or 2 randomly assigned.

The values for SEX are:

- 1 = Male
- 2 = Female

RACE was constructed from BYS31A. In the data quality review, one correctable problem was found. Frequencies of students' reports of their ethnicity indicated that a number of students may have incorrectly used the American Indian/Alaskan Native category. Crosstabulations of students' self-categorization with parents' self-categorization indicated that roughly 60 percent of the 924 students who said they were American Indian or Alaskan Native had parents who classified themselves as "white, not Hispanic". While parent-student ethnicity reports logically need not match-the one parent or step-parent interviewed represents, after all, only a part of the child's racial-ethnic

background--empirically, one would not expect so large a discrepancy if the race-ethnicity item were working well.

One hypothesis was that students were confused by the "white, not of Hispanic origin" category and were drawn to the "American" in American Indian. This hypothesis was tested by calling a random sample of students' parents and asking the parents to verify the race/ethnicity of the child. The parent was not told how the child had actually responded. The parent was asked to use the eighth grader, rather than self, as the reference point.

One hundred parents were interviewed about the race and ethnic background of their child. Ninety-three of the parents said their child was "white, not of Hispanic origin." Six parents said that their child was "American Indian or Alaskan Native," and one parent indicated that the child was "black, not of Hispanic origin." In the base year field test, race/ethnicity and parent occupation were found to be among the most difficult questions for eighth graders to answer.

On the basis of these findings, it was decided to recode the 625 students who responded "American Indian or Alaskan Native" and whose parent responded "white, not Hispanic" to BYP10 to "white, not Hispanic" for this composite. BYS31A was left unchanged so that the analyst has access to the actual respondent data.

The values for RACE are:

- 1 = Asian or Pacific Islander
- 2 = Hispanic, regardless of race
- 3 = Black, not of Hispanic origin
- 4 = White, not of Hispanic origin
- 5 = American Indian or Alaskan Native
- 8 = Missing, BYS31A was not answered

HISP characterizes the Hispanic subgroup to which the student belongs. If BYS31A was equal to 1, 3, 4, or 5, then this variable was coded "0." If BYS31A was either 2 or a reserve code, then the value for BYS31C was checked. If BYS31C contained a valid value (not a reserve code) of 1-4, then that value was assigned to HISP; otherwise this variable was coded "8."

The values for HISP are:

- 0 = non-Hispanic
- 1 = Mexican, Mexican-American, Chicano
- 2 = Cuban
- 3 = Puerto Rican
- 4 = Other Hispanic
- 8 = Missing

API specifies to which Asian or Pacific Island group the student belongs. If BYS31A was equal to 2, 3, 4, or 5, then this variable was coded "00." If BYS31A was either 1 or a reserve code, then the value for BYS31B was checked. If BYS31B contained a valid value (not a reserve code) of 01-10, then that value was assigned to API; otherwise this variable was coded "98." Note that only groups 01-06 were oversampled for inclusion in the OBEMLA supplement.

The values for API are:

- 00 = non-API
- 01 = Chinese
- 02 = Filipino
- 03 = Japanese
- 04 = Korean
- 05 = Southeast Asian
- 06 = Pacific Islander
- 07 = South Asian
- 08 = West Asian
- 09 = Middle Eastern
- 10 = Other Asian
- 98 = Missing

HEARIMP¹ classifies the student as either hearing-impaired or not. It was constructed by initializing HEARIMP to 0 and then setting it to 1 if either of the following criteria were met:

1. If the student had on file an Individualized Education Program and was reported to the Department of Education as belonging to one of the following handicap categories: deaf, hard-of-hearing, deaf-blind, or multiple handicap (only if hard-of-hearing was included as one of his or her impairments); AND the student is currently mainstreamed with regular hearing eighth grade students for English or mathematics classes (BYIEPFLG=1).
2. If in the course of drawing up the roster of students for the school or in administering the instruments, project staff determined that any student satisfied only one of the requirements listed above, BYIEPFLG was set to 0 and that student was listed as part-eligible. This part-eligible list was used to set HEARIMP to 1.
3. If the parent reported a problem (BYP47B=1 or BYP47C=1 or BYP48B=1 or BYP48C=1). Please note that if HEARIMP is set to 1 because of satisfying criterion 3, the student may have been impaired in the past without necessarily being so in the present.

The values for HEARIMP are:

- 0 = Not reported as hearing-impaired
- 1 = Hearing-impaired

HANDPAST¹ was constructed from responses on the parent questionnaire and indicates whether the student has ever participated in a program for the handicapped.

1 Note that the frequency of reported impairment or handicap is influenced by the eligibility criteria and participation patterns, which tended to eliminate more severely impaired or handicapped students. Please see section 3.1.1 for details.

The values for HANDPAST are:

- 0 = Not past handicap program recipient (BYP48A through BYP48J are 0)
- 1 = Past handicap program recipient (if any BYP48A through BYP48J = 1)
- 8 = Missing, no parent questionnaire, or BYP48A through BYP48J are missing

BYHANDPR² was constructed from responses on the parent questionnaire and indicates whether the student is currently participating in a program for the orthopedically handicapped or learning disabled.

The values for BYHANDPR are:

- 0 = Not current program participant (BYP49C and BYP49D are 0)
- 1 = Current program recipient for orthopedically handicapped or learning disabilities. (BYP49C or BYP49D = 1)
- 8 = Missing, no parent questionnaire or BYP49C and BYP49D are missing

BYHANDTR² was constructed from responses on the teacher questionnaire(s) and indicates whether at least one teacher reports a handicap that interferes with school performance.

The values for BYHANDTR are:

- 0 = Neither teacher reported any handicaps interfering with school performance (BYT1_10 is 0)
- 1 = Either teacher reports a handicap (BYT1_10 is 1)
- 8 = Missing, no teacher questionnaire or BYT1_10 is missing

BIRTHMO was taken directly from BYS11 of the student questionnaire. Its range is 1-12, with 98 indicating missing.

BIRTHYR was coded from BYS11 of the student questionnaire. All values less than 72 were set to 72 and all values greater than 75 were set to 75.

- 72 = 1972 or before
- 73 = 1973
- 74 = 1974
- 75 = 1975 or after
- 98 = Missing

BYLOCUS1 was designed to be as comparable as possible with HS&B and NLS-72 data. Locus of control items are all in student question 44. They are BYS44B, BYS44C, BYS44F, BYS44G, BYS44K, and BYS44M. Three of these items are comparable to HS&B and NLS-72 items. They are BYS44C, BYS44F, and BYS44G. It is important to note that while these are comparable, they are not always identical. For the user's convenience, the NELS:88 items appear below along with the HS&B and NLS-72 items, which appear in parentheses.

2 See footnote 1.

BYS44C: In my life, good luck is more important than hard work for success.

(Good luck is more important than hard work for success.)

BYS44F: Every time I try to get ahead, something or somebody stops me.

(Text identical.)

BYS44G: My plans hardly ever work out, so planning only makes me unhappy.

(Planning only makes a person unhappy, since plans hardly ever work out anyway.)

NO COMPARABLE NELS:88 ITEM. (People who accept their condition in life are happier than those who try to change things.)

Each of the above three items was standardized separately to a mean of zero and a standard deviation of 1 using BYQWT. All nonmissing components were averaged. Any student missing all components was assigned a missing value (8).

The actual range for BYLOCUS1 is -3.01 through 1.52, from low to high control; 99.98 indicates missing.

BYLOCU1T is the tertile into which BYLOCUS1 falls. It was constructed by recoding BYLOCUS1 into three categories (low, medium, and high), based on the weighted, BYQWT, marginal distribution.

The values for BYLOCU1T are:

1 = Tertile 1 Low

2 = Tertile 2 Medium

3 = Tertile 3 High

8 = Missing

BYLOCUS2 is the composite of the locus of control items in student question 44. They are **BYS44B**, **BYS44C**, **BYS44F**, **BYS44G**, **BYS44K**, and **BYS44M**. **BYS44K** is a reverse scoring item so the values were reversed before performing computations. Each of these six items was standardized separately to a mean of zero and a standard deviation of 1 using BYQWT. All nonmissing components were averaged. Any student missing all components was assigned a missing value (8).

The actual range for BYLOCUS2 is -3.01 through 1.52, from low to high control; 99.98 indicates missing.

BYLOCU2T is the tertile into which BYLOCUS2 falls. It was constructed by recoding BYLOCUS2 into three categories (low, medium, and high), based on the weighted, BYQWT, marginal distribution.

The values for BYLOCU2T are:

1 = Tertile 1 Low

2 = Tertile 2 Medium

3 = Tertile 3 High

4 = Missing

BYCNCPT1 was designed to be as comparable as possible with HS&B and NLS-72 data. Self-concept items are all in student question 44. They are **BYS44A**, **BYS44D**, **BYS44E**, **BYS44H**, **BYS44I**, **BYS44J**, and **BYS44L**. Four of these items are comparable to HS&B and NLS-72 items. They are **BYS44A**, **BYS44D**, **BYS44E**, and **BYS44H**. These same four items are all reverse scoring items so the values were reversed before performing computations. It is important to note that while comparable, they are not always identical. For the user's convenience, the NELS:88 items appear below along with the HS&B and NLS-72 items which appear in parentheses.

BYS44A: I feel good about myself.

(I take a positive attitude toward myself.)

BYS44D: I feel I am a person of worth, the equal of other people.

(I feel I am a person of worth, on an equal plane with others.)

BYS44E: I am able to do things as well as most other people.

(Text identical.)

BYS44H: On the whole, I am satisfied with myself.

(Text identical.)

Each of the above four items was standardized separately to a mean of zero and a standard deviation of 1 using **BYQWT**. All nonmissing components were averaged. Any student missing all components was assigned a missing value (8).

The actual range for **BYCNCPT1** is -3.61 through 1.15, from low to high esteem; 99.98 indicates missing.

BYCNCPT1T is the tertile into which **BYCNCPT1** falls. It was constructed by recoding **BYCNCPT1** into three categories (low, medium, and high), based on the weighted, **BYQWT**, marginal distribution.

The values for **BYCNCPT1T** are;

1 = Tertile 1 Low

2 = Tertile 2 Medium

3 = Tertile 3 High

8 = Missing

BYCNCPT2 is the composite of the self-concept items in student question 44. They are **BYS44A**, **BYS44D**, **BYS44E**, **BYS44H**, **BYS44I**, **BYS44J**, and **BYS44L**. **BYS44A**, **BYS44D**, **BYS44E**, and **BYS44H** are reverse scoring items so the values were reversed before performing computations. Each of the above seven items was standardized separately to a mean of zero and a standard deviation of 1 using **BYQWT**. All non-missing components were averaged. Any student missing all components was assigned a missing value (8).

The actual range for **BYCNCPT2** is -3.61 through 1.25, from low to high esteem; 99.98 indicates missing.

BYCNCP2T is the tertile into which **BYCNCPT2** falls. It was constructed by recoding **BYCNCPT2** into three categories (low, medium, and high), based on the weighted, **BYQWT**, marginal distribution.

The values for **BYCNCP2T** are:

- 1 = Tertile 1 Low
- 2 = Tertile 2 Medium
- 3 = Tertile 3 High
- 8 = Missing

BYSES was constructed using the following parent questionnaire data: father's education level, mother's education level, father's occupation, mother's occupation, and family income (data coming from **BYP30**, **BYP31**, **BYP34B**, **BYP37B**, and **BYP80**). Education-level data were recoded as for the composite **BYPARED** (with the exception of category "7," which was coded as missing for **BYSES** calculations; see **BYPARED**). Occupational data were recoded using the Duncan SEI scale as used in **HS&B**. Each nonmissing component (after any necessary recoding) was standardized to a mean of 0 and a standard deviation of 1. Nonmissing standardized components were averaged yielding the **BYSES** composite. The parent data were used to construct **BYSES** if at least one component was not missing.

For cases where all parent data components were missing (8.1 percent of the participants), student data were used to compute the **BYSES**. The first four components from the student data are the same as the components used from parent data (i.e., educational-level data, **BYS34A** and **BYS34B**, similarly recoded; occupational data, **BYS4B** and **BYS7B** of student questionnaire part one, also recoded). The fifth component for **BYSES** from the student data consisted of summing the non-missing household items listed at **BYS3A-P** (after recoding "Not Have Item" from "2" to "0"), calculating a simple mean of these items, and then standardizing this mean. If eight or more **BYS35A-P** were nonmissing this component was computed; otherwise it was set to missing. All components coming from student data were standardized. Nonmissing standardized components were averaged, yielding the **BYSES** composite for those cases where parent data were either missing or not available. The student data were used to construct **BYSES** if all components based on parent data were missing and at least one component based on student data was not missing. Otherwise **BYSES** was set to missing.

The actual range for **BYSES** is -2.97 through 2.56, with 99.998 indicating missing.

BYSESQ is the quartile into which **BYSES** falls. It was constructed by recoding **BYSES** into quartiles based on the weighted, **BYQWT**, marginal distribution.

The values for **BYSESQ** are:

- 1 = Quartile 1 Low
- 2 = Quartile 2
- 3 = Quartile 3
- 4 = Quartile 4 High
- 8 = Missing

BYPARED characterizes the level of education attained by either of the parents of the student. It was constructed using parent questionnaire data (BYP30 and BYP31). Student data (BYS34A and BYS34B) were used whenever parent data were either missing or not available. If both parent and student data were missing, BYPARED was assigned a value of missing. Highest valid value for a given source became BYPARED. The following table shows the relationships between what was reported on the parent and student questionnaires and the value assigned to the variable BYPARED.

BYPARED	Parent Qx	Student Qx	Label
1	1, 2	1	Did not finish high school
2	3, 4	2	High school grad or GED
3	5-10	3, 4	gt H.S. & lt 4 year degree
4	11	5	College graduate
5	12	6	M.A. or equivalent
6	13	7	Ph.D., M.D., other
7		8	Don't know
8			Missing

BYFAMSIZ reports estimated family size. It was computed using both the parent and student questionnaires. If all of BYS8A-I were reserved codes, then BYFAMSIZ was coded as missing. Otherwise the number was 1 for the respondent plus an estimate for the number of siblings (detailed below) plus the number of family members other than siblings as marked in items BYS8A-D and BYS8G-I. (This procedure counts only one person each for BYS8G-I, even if more than one person in each category lives in the household.) The first reference used for the number of siblings is BYP3B. If that is a reserve code, then BYS32 is used instead. If neither BYP3B or BYS32 listed any siblings, then one sibling is counted for each item marked in BYS8E and BYS8F as a final source. All values of BYFAMSIZ that are greater than nine were set to 10, creating the end value of 10, which means 10 or more.

The values for BYFAMSIZ are:

- 02-09 = Family size as computed above
- 10 = Family size computed above is ten or greater
- 98 = Missing or lives in an undefined situation

BYFCOMP characterizes the family or household composition. It is constructed from the student responses to BYS8A-I.

The values for BYFCOMP are:

- 1 = Mother and father
- 2 = Mother and male guardian
- 3 = Father and female guardian
- 4 = Mother only
- 5 = Father only
- 6 = Other relative or non-relative
- 8 = Missing, BYS8A-I were all missing

BYPARMAR characterizes the parent's marital status. It was taken directly from BYP7.

The values for BYPARMAR are:

- 01 = Divorced
- 02 = Widowed
- 03 = Separated
- 04 = Never married
- 05 = Not married but living in a marriage-like relationship
- 06 = Married
- 98 = Missing

BYFAMINC categorizes the family income. It is taken directly from BYP80.

The values for BYFAMINC are:

- 01 = None
- 02 = Less than \$1,000
- 03 = \$ 1,000-\$ 2,999
- 04 = \$ 3,000-\$ 4,999
- 05 = \$ 5,000-\$ 7,499
- 06 = \$ 7,500-\$ 9,999
- 07 = \$ 10,000-\$ 14,999
- 08 = \$ 15,000-\$ 19,999
- 09 = \$ 20,000-\$ 24,999
- 10 = \$ 25,000-\$ 34,999
- 11 = \$ 35,000-\$ 49,999
- 12 = \$ 50,000-\$ 74,999
- 13 = \$ 75,000-\$ 99,999
- 14 = \$100,000-\$199,999
- 15 = \$200,000 or more
- 98 = Missing

BYHMLANG characterizes primary language use in the home by differentiating between English or non-English languages, as well as indicating whether the primary language was the only language or the dominant one among several. The classification is made from the student questionnaire data. If no language other than English is spoken (BYS21=2), the student is English Only; if the language usually spoken is English (BYS22=1) but another language is used (BYS23=2 to 96), the student is English Dominant. If another language is usually used (BYS22=2 to 13), then the student is assigned to Non-English Only when no other language is spoken in the home (BYS23=0) or to Non-English Dominant if there is another language used in the home (BYS23=1 to 96).

When the language use cannot be determined from the student questionnaire, data from the parent questionnaire is used to construct the variable. If no language other than English is spoken (BYP22A = 2), the student is English Only; if the language usually spoken is English (BYP23 = 1) but another language is also used (BYP22A = 1), the student is English Dominant. If another language is usually used (BYP22A = 1 and BYP23A > 1), then the student is assigned to Non-English Only if English is not spoken in the home (BYP22B = 2) or to Non-English Dominant if English is

also spoken (BYP22B = 1). If language use cannot be determined from either the student or the parent questionnaire, the value is coded missing.

The values for BYHMLANG are:

- 1 = Non-English Only
- 2 = Non-English Dominant
- 3 = English Dominant
- 4 = English Only
- 8 = Missing

BYPSEPLN characterizes the postsecondary school plans of the student and was taken directly from **BYS45**.

The values for **BYPSEPLN** are:

- 01 = Won't finish high school
- 02 = Will graduate from high school but won't go further
- 03 = Will go to vocational, trade, or business school after high school
- 04 = Will attend college
- 05 = Will graduate from college
- 06 = Will attend a higher level of school after graduating from college
- 98 = Missing

BYHOMEWK categorizes the number of hours per week spent doing homework as reported by the respondent. It was computed as follows. **BYS79A** through **BYS79E** were recoded so that:

- None = 0
- Less than 1 hour = .5
- 1 = 1, 2 = 2, 3 = 3
- 4-6 = 5
- 7-9 = 8
- 10 or more = 10.

The nonmissing recoded values were summed across subjects and assigned to one of the categories below. If any subjects were missing, then **BYHOMEWK** was set to missing.

The values for **BYHOMEWK** are:

- 01 = None
- 02 = .50 to 1.99 hours
- 03 = 2.00 to 2.99
- 04 = 3.00 to 5.49
- 05 = 5.50 to 10.49
- 06 = 10.50 to 12.99
- 07 = 13.00 to 20.99
- 08 = 21.00 or more
- 98 = Missing

BYLEP³ specifies whether the student has Limited English Proficiency. It was constructed from the student self-evaluation and the teacher evaluations for proficiency in using the English language. BYLEP was set to 1 if the student responded to any of BYS27A, BYS27B, BYS27C, or BYS27D with 4 ("Not very well"), or if either teacher marked yes to BYT1_12, which asks if the student is a Limited English Proficiency student. If both the student responses to BYS27A-D and the teacher response to BYT1_12 were missing, BYLEP was set to missing. It was 0 otherwise. Section 3.1.1 includes details of exclusions from the sample that must be considered when using this flag in analysis.

The values for BYLEP are:

- 0 = The student is not reported to be Limited English Proficiency
- 1 = The student is self-reported as Limited English Proficiency or so reported by one of his or her teachers
- 8 = Missing

BYLM³ specifies whether the student is classified as Language Minority (from a home in which a language other than English is typically spoken). If either teacher answered yes to BYT1_11, or if the student response to BYS22 indicates a language other than English is usually spoken in the home (values 2-13), the student is classified as Language Minority. If both the student response to BYS22 and his or her teachers' response to BYT1_11 were missing, the value for BYLM was set to missing. It was 0 otherwise.

The values for BYLM are:

- 0 = The student is not classified Language Minority
- 1 = The student is classified Language Minority
- 8 = Missing

BYGRADS is an average, with all nonmissing elements equally weighted, of the self-reports for grades over the four subject areas (English, mathematics, science, and social studies). The source is student questionnaire item 81. It was computed by converting the response categories in BYS81A through BYS81D to a five point scale (mostly As = 4, Bs = 3, Cs = 2, Ds = 1, mostly below D = .5, else set 8) and taking the mean of all nonmissing values of these four variables equally weighted. The mean was rounded to one decimal place.

The range for BYGRADS is 0.5-4.0 with 9.8 indicating missing.

BYGRADSQ is the quartile distribution of BYGRADS. It was constructed by recoding BYGRADS into quartiles based on the weighted, using BYQWT, marginal distribution.

3 Note that the frequency of reported English language limitations is influenced by the eligibility criteria and participation patterns which tended to eliminate those with more severe English deficiencies. Please see section 3.1.1 for more information.

The values for BYGRADSQ are:

- 1 = Quartile 1 Low
- 2 = Quartile 2
- 3 = Quartile 3
- 4 = Quartile 4 High
- 8 = Missing

Test Results

The following composites (whose variable names begin with BYTX) are based upon the cognitive tests that were given to participating students.

Eight results for each of the base year tests in the four areas of reading, mathematics, science, and social science (history/government) are reported. The convention adopted for these thirty-two variables names is: BYTX (base year test) followed by R for reading, M for mathematics, S for science, and H for history (social science), ending with the results designator NR for number right, NW for number wrong, NNA for number not attempted, FS for formula score, STD for standardized score, IRR for IRT (Item Response Theory)-estimated number right, IRS for IRT-estimated formula score, and Q for quartile (1=low). For example, BYTXSNNA is the number not attempted on the science test. In addition, a standardized test composite for reading and math (BYTXCOMP) and its quartile (BYTXQURT) were constructed.

BYTXRNR Reading Number Right

BYTXRNW Reading Number Wrong

BYTXRNNA Reading Number Not Attempted

BYTXRFS Reading Formula Score

BYTXRSTD Reading Standardized Score

BYTXRIRR Reading IRT-estimated Number Right

BYTXRIRS Reading IRT-Estimated Formula Score

BYTXRQ Reading Quartile (1=low)

BYTXMNR Mathematics Number Right

BYTXMNW Mathematics Number Wrong

BYTXMNNA Mathematics Number Not Attempted

BYTXMFS Mathematics Formula Score

BYTXMSTD Mathematics Standardized Score

BYTXMIRR Mathematics IRT-Estimated Number Right

BYTXMIRS Mathematics IRT-Estimated Formula Score
BYTXMQ Mathematics Quartile (1=low)
BYTXSNR Science Number Right
BYTXSNW Science Number Wrong
BYTXSNNA Science Number Not Attempted
BYTXSFS Science Formula Score
BYTXSSTD Science Standardized Score
BYTXSIRR Science IRT-Estimated Number Right
BYTXSIRS Science IRT-Estimated Formula Score
BYTXSQ Science Quartile (1=low)
BYTXHNR History/Government Number Right
BYTXHNW History/Government Number Wrong
BYTXHNNA History/Government Number Not Attempted
BYTXHFS History/Government Formula Score
BYTXHSTD History/Government Standardized Score
BYTXHIRR History/Government IRT-Estimated Number Right
BYTXHIRS History/Government IRT-Estimated Formula Score
BYTXHQ History/Government Quartile (1=low)
BYTXCOMP Standardized Test Composite (Reading, Math)
BYTXQURT Standardized Test Quartile (1=low)

Two overall ratings are reported that characterize the student's proficiency in reading and mathematics. Proficiency calculations use a refinement of the student weight (BYQWT) that adjusts for the fact that not all students who completed the questionnaire completed the cognitive tests. These variable names begin with BYTX for base year test, followed by R for reading or M for mathematics. The variables and their values are as follows.

The values for **BYTXRPRO**, overall reading proficiency, are:

1 = Below Level 1
2 = At Level 1, but below Level 2
3 = Level 2
8 = Missing data

The values for **BYTXMPRO**, overall mathematics proficiency, are:

1 = Below Level 1

2 = At Level 1, but below Level 2 and 3

3 = At Level 1 and 2, but below Level 3

4 = Proficient at all three levels

8 = Missing data

