APPENDIX C: DATA CREATED FOR FIELD-TEST ITEMS

Appendix C: Data Created for Field-Test Items

Field Format	Field Name	Field Description	Notes
A2	SUBJ	Subject (RE, WR, LI, MA, SC)	REading, WRiting, LIstening, MAthematics, SCience
N2	GRADE	Grade	Grade in which an item administered
A13	MEAP ID	MEAP Item ID (13 characters)	Michigan item identifyer
N12	CID	CID (currently 7 digits used)	Company ID number for an item (HAI or PEM)
A2	TYPE	Item Type (MC, CR)	MC - multiple-choice, CR - constructed response, NS-not scored
A1	KEY	Item Answer Key (A, B, C, D)	For MC items
N1	MAX	Item Maximal Score (3, 4, 6)	For CR items
N3	STRAND	Item Strand	
A6	BNCHM	Item Benchmark	
A6	GLCE	Grade Level Expectation	
N1	DEPTKN	Depth of Knowledge	
N4	ADMYEAR	Administration Year	For each administration year a separate line will be provided
N2	CYCLE	Year cycle (2 digit number)	
A2	MATURITY	PP, PI, FT, OP, RL, EM	Pre-pilot, Pilot, Field-Test, Operational, Released, Emergency
A2	FUNC	Item Function in Current Administration (CO, FC, EC, LI)	Core, Future core, Extended core, Linking
N2	NFORMS	Number of Forms Item Appears On (1 - 5)	Indicates how many forms a matrix item appears on, ranges 1-5 (not supplied for core items).
N3 x 5	FORMS	Form Numbers (array of up to 5 numbers)	Indicates which forms a matrix item appears on, there will be as many form numbers as there are forms that item appears on (not supplied for core items).
N3 x 5	POSITS	Test Positions (array of up to 5 numbers)	Indicates positions in the test for each form that a matrix item appears on, there will be as many position numbers as there are forms that item appears on (shows only one number for core items).
N6	NCOUNT	N-count	Number of calibration cases used to produce statistics

N6	N_MAL	Ncount Males	N-counts for brake-down groups
N6	N_FEM	Ncount Females	
N6	N_WHI	Ncount White	
N6	N_BLA	Ncount Black	
N2	COM0	Percent for Comment Code 0	Comment code distribution (for CR items only, see the spreadsheet "Codes")
N2	COM1	Percent for Comment Code 1	
N2	COM2	Percent for Comment Code 2	
N2	COM3	Percent for Comment Code 3	
N2	COM4	Percent for Comment Code 4	
N2	COM5	Percent for Comment Code 5	
N2	COM6	Percent for Comment Code 6	
N2	COM7	Percent for Comment Code 7	
N2	COM8	Percent for Comment Code 8	
N2	COM9	Percent for Comment Code 9	
N2	COM10	Percent for Comment Code 10 (not used yet)	
N2	COM11	Percent for Comment Code 11 (not used yet)	
N2	COM12	Percent for Comment Code 12 (not used yet)	
N2	COND_A	Percent for Condition Code A	Codition code distribution (for CR items only, see the spreadsheet "Codes")
N2	COND_B	Percent for Condition Code B	
N2	COND_C	Percent for Condition Code C	
N2	COND_D	Percent for Condition Code D	
N2	COND_E	Percent for Condition Code E	
N2	COND_F	Percent for Condition Code F (not used yet)	
N2	COND_G	Percent for Condition Code G (not used yet)	
N2	COND_H	Percent for Condition Code H (not used yet)	
N2	A	Percent (option A or scorepoint 0)	Percent of ALL calibration cases
N2	B	Percent (option B or scorepoint 1)	
N2	C	Percent (option C or scorepoint 2)	
N2	D	Percent (option D or scorepoint 3)	
N2	M	Percent (mult. marks or scorepoint 4)	
N2	S5	Percent (scorepoint 5)	
N2	S6	Percent (scorepoint 6)	
N2	O	Percent (Omits)	

N2	MAA	Male Percent (A or 0)	
N2	MAB	Male Percent (B or 1)	
N2	MAC	Male Percent (C or 2)	
N2	MAD	Male Percent (D or 3)	Percent for MALE calibration cases
N2	MAM	Male Percent (MM or 4)	
N2	MAS5	Male Percent (scorepoint 5)	
N2	MAS6	Male Percent (scorepoint 6)	
N2	MAO	Male Percent (Omits)	
N2	FEA	Female Percent (A or 0)	
N2	FEB	Female Percent (B or 1)	
N2	FEC	Female Percent (C or 2)	
N2	FED	Female Percent (D or 3)	Percent for FEMALE calibration cases
N2	FEM	Female Percent (MM or 4)	
N2	FES5	Female Percent (scorepoint 5)	
N2	FES6	Female Percent (scorepoint 6)	
N2	FEO	Female Percent (Omits)	
N2	WHA	White Percent (A or 0)	
N2	WHB	White Percent (B or 1)	
N2	WHC	White Percent (C or 2)	
N2	WHD	White Percent (D or 3)	Percent for WHITE calibration cases
N2	WHM	White Percent (MM or 4)	
N2	WHS5	White Percent (scorepoint 5)	
N2	WHS6	White Percent (scorepoint 6)	
N2	WHO	White Percent (Omits)	
N2	NLA	Black Percent (A or 0)	
N2	BLB	Black Percent (B or 1)	
N2	BLC	Black Percent (C or 2)	
N2	BLD	Black Percent (D or 3)	Percent for BLACK calibration cases
N2	BLM	Black Percent (MM or 4)	
N2	BLS5	Black Percent (scorepoint 5)	
N2	BLS6	Black Percent (scorepoint 6)	
N2	BLO	Black Percent (Omits)	
N8.4	PVAL	P-value or Item Mean	P-value or arithmetic mean of item scores (all cases)

N8.4	MPVAL	P-value or Item Mean for Male	
N8.4	FPVAL	P-value or Item Mean for Female	Impact analysis: item means for brake-down groups
N8.4	WPVAL	P-value or Item Mean for White	
N8.4	BPVAL	P-value or Item Mean for Black	
N8.4	ADJPVAL	Adjusted P-value	Adjusted P-value = (Arithmetic mean - MIN item score) / (MAX item score - MIN item score)
A1	DIFFICFL	Difficulty flag	Based on Test Construction Specifications
N8.4	SDEV	Item Standard Deviation	Standard deviation of item scores
N8.4	ITOT	Item-Total Correlation	Pearson product-moment correlation (Point-Biserial correlation for dihotomous items)
N8.4	ITOTBIS	Biserial / Polyserial Correlation	For MC: biserial, for CR:poliserial (optional)
N8.4	ITOTC	Point-Biserial Correlation (corrected)	For MC items (corrected for maximal possible value)
A1	ITOTFL	Item-Total correlation flag	Based on Test Construction Specifications
N8.4	APB	P-b correlation for option A	
N8.4	BPB	P-b correlation for option B	Options point-biserial correlations (for CR items only Omits Rpb is supplied)
N8.4	CPB	P-b correlation for option C	
N8.4	DPB	P-b correlation for option D	
N8.4	OPB	P-b correlation for Omits	
A1	MISKFL	Flag for potential miskeying	Based on Test Construction Specifications
N8.2	MCHI_MF	Mantel CHSQ Male-Female	DIF analyses: Mantel chi-square (for both dichotomous and polytomous items), Mantel-Haenszel Delta for dichotomous items (not supplied for polytomous items)
N8.2	MHD_MF	Mantel-Haenszel Delta Male-Female	
N8.2	MCHI_WB	Mantel CHSQ White-Black	
N8.2	MHD_WB	Mantel-Haenszel Delta White-Black	
N8.4	SMDS_MF	SMD M-F	DIF analyses: Standardized Mean Difference (-ve indicates that conditional on the matching variable, the focus group has a lower mean item score than the reference group)
N8.4	SMDS_WB	SMD W-B	
A1	DIF_MF	DIF category for M-F (A, B, C)	DIF level categorization: A - no or negligible, B - moderate, C - substantial.
A1	DIF_WB	DIF category for W-B (A, B, C)	
A6	FG_MF	Favored group for M-F (Male, Female)	Favored group if DIF level equal to B or C
A6	FG_WB	Favored group for W-B (White, Black)	
N8.4	APAR	A parameter (scaled)	Scaled (equated) IRT parameters: for MC items: A, B, and C; for CR items: A, B, D1, D2, D3, D4, D5, D6,
N8.4	ASE	SE for A parameter (scaled)	

N8.4	BPAR	B parameter (scaled)	and corrsponding standard errors. For Rasch model A and C will not be supplied.
N8.4	BSE	SE for B parameter (scaled)	
N8.4	CPAR	C parameter (scaled)	
N8.4	CSE	SE for C parameter (scaled)	
N8.4	D1	D1 category parameter (scaled)	
N8.4	D1SE	SE for D1 category parameter (scaled)	
N8.4	D2	D2 category parameter (scaled)	
N8.4	D2SE	SE for D2 category parameter (scaled)	
N8.4	D3	D3 category parameter (scaled)	
N8.4	D3SE	SE for D3 category parameter (scaled)	
N8.4	D4	D4 category parameter (scaled)	
N8.4	D4SE	SE for D4 category parameter (scaled)	
N8.4	D5	D5 category parameter (scaled)	
N8.4	D5SE	SE for D5 category parameter (scaled)	
N8.4	D6	D6 category parameter (scaled)	
N8.4	D6SE	SE for D6 category parameter (scaled)	
N8.2	ZQ1	ZQ1 fit index	3PL and 2PPC fit index and flag: blank (Zq1 < N*1500/4), F misfit (Zq1 > N*1500/4). Not supplied for Rasch model.
A2	ZQ1FL	Fit Flag based on ZQ1 (blank, F)	
N8.4	MSQIN	Mean-square infit	Rasch fit index and flag: blank (0.5 < 1.5), F (moderate misfit: < 0.5 or 1.5 < 2.0), FF (large misfit: 2.0 <). Not supplied for 3PL and 2PPC models.
A2	MSQINFL	Mean-square infit flag (blank, F, FF)	
N8.4	MSQOUT	Mean-square outfit	
A2	MSQOUTFL	Mean-square outfit flag (blank, F, FF)	
N1	FITLEV	Fit level (0, 1, 2)	
N8.4	RES1	Reserved 1	Reserved for future use (20 numeric and 5 alphanumeric)
N8.4	RES2	Reserved 2	
N8.4	RES3	Reserved 3	
N8.4	RES4	Reserved 4	
N8.4	RES5	Reserved 5	
N8.4	RES6	Reserved 6	
N8.4	RES7	Reserved 7	
N8.4	RES8	Reserved 8	
N8.4	RES9	Reserved 9	

N8.4	RES10	Reserved 10	
N8.4	RES11	Reserved 11	
N8.4	RES12	Reserved 12	
N8.4	RES13	Reserved 13	
N8.4	RES14	Reserved 14	
N8.4	RES15	Reserved 15	
N8.4	RES16	Reserved 16	
N8.4	RES17	Reserved 17	
N8.4	RES18	Reserved 18	
N8.4	RES19	Reserved 19	
N8.4	RES20	Reserved 20	
A5	RES21	Reserved 21	
A5	RES22	Reserved 22	
A5	RES23	Reserved 23	
A5	RES24	Reserved 24	
A5	RES25	Reserved 25	
N8.2	TH1	Theta point 1	
N8.2	TH2	Theta point 2	
N8.2	TH3	Theta point 3	
N8.2	TH4	Theta point 4	
N8.2	TH5	Theta point 5	Theta points for plotting conditional item means.
N8.2	TH6	Theta point 6	
N8.2	TH7	Theta point 7	
N8.2	TH8	Theta point 8	
N8.2	TH9	Theta point 9	
N8.2	TH10	Theta point 10	
N6.3	AD1	Conditional Item Mean for Decile 1	Conditional item means plot: All
N6.3	AD2	Conditional Item Mean for Decile 2	
N6.3	AD3	Conditional Item Mean for Decile 3	
N6.3	AD4	Conditional Item Mean for Decile 4	
N6.3	AD5	Conditional Item Mean for Decile 5	
N6.3	AD6	Conditional Item Mean for Decile 6	
N6.3	AD7	Conditional Item Mean for Decile 7	

N6.3	AD8	Conditional Item Mean for Decile 8	
N6.3	AD9	Conditional Item Mean for Decile 9	
N6.3	AD10	Conditional Item Mean for Decile 10	
N6.3	MD1	Conditional Item Mean for Decile 1	
N6.3	MD2	Conditional Item Mean for Decile 2	
N6.3	MD3	Conditional Item Mean for Decile 3	
N6.3	MD4	Conditional Item Mean for Decile 4	
N6.3	MD5	Conditional Item Mean for Decile 5	Conditional item means plot: Males
N6.3	MD6	Conditional Item Mean for Decile 6	
N6.3	MD7	Conditional Item Mean for Decile 7	
N6.3	MD8	Conditional Item Mean for Decile 8	
N6.3	MD9	Conditional Item Mean for Decile 9	
N6.3	MD10	Conditional Item Mean for Decile 10	
N6.3	FD1	Conditional Item Mean for Decile 1	
N6.3	FD2	Conditional Item Mean for Decile 2	
N6.3	FD3	Conditional Item Mean for Decile 3	
N6.3	FD4	Conditional Item Mean for Decile 4	
N6.3	FD5	Conditional Item Mean for Decile 5	Conditional item means plot: Females
N6.3	FD6	Conditional Item Mean for Decile 6	
N6.3	FD7	Conditional Item Mean for Decile 7	
N6.3	FD8	Conditional Item Mean for Decile 8	
N6.3	FD9	Conditional Item Mean for Decile 9	
N6.3	FD10	Conditional Item Mean for Decile 10	
N6.3	WD1	Conditional Item Mean for Decile 1	
N6.3	WD2	Conditional Item Mean for Decile 2	
N6.3	WD3	Conditional Item Mean for Decile 3	
N6.3	WD4	Conditional Item Mean for Decile 4	
N6.3	WD5	Conditional Item Mean for Decile 5	Conditional item means plot: Whites
N6.3	WD6	Conditional Item Mean for Decile 6	
N6.3	WD7	Conditional Item Mean for Decile 7	
N6.3	WD8	Conditional Item Mean for Decile 8	
N6.3	WD9	Conditional Item Mean for Decile 9	
N6.3	WD10	Conditional Item Mean for Decile 10	

N6.3	BD1	Conditional Item Mean for Decile 1
N6.3	BD2	Conditional Item Mean for Decile 2
N6.3	BD3	Conditional Item Mean for Decile 3
N6.3	BD4	Conditional Item Mean for Decile 4
N6.3	BD5	Conditional Item Mean for Decile 5
N6.3	BD6	Conditional Item Mean for Decile 6
N6.3	BD7	Conditional Item Mean for Decile 7
N6.3	BD8	Conditional Item Mean for Decile 8
N6.3	BD9	Conditional Item Mean for Decile 9
N6.3	BD10	Conditional Item Mean for Decile 10

Conditional item means plot: Blacks