

APPENDIX B: DATA CREATED FOR FIELD-TEST ITEMS

Appendix C: Data Created for Field-Test Items

Field Format	Field Name	Field Description	Notes	
A6	TEST	Test Name	MATH03, READ05, SCIE08, SOCS06, WRIT05, etc.	
A2	SUBJ	Subject (RE, MA, SC, SS, WR)	REading, MAtematics, SCience, Social Studies, WRiting	
A2	GRADE	Grade	Grade in which an item administered	
A25	MEAP_ID	MEAP Item ID	Michigan item identifier	
F12	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	
A1	KEY	Item Answer Key (A, B, C, D)	For MC items	
F1	MAX	Item Maximal Score (3, 4, 6)	For CR items	
A3	STRAND	Item Strand		
A3	BNCHM	Item Benchmark		
A10	GLCE	Grade Level Expectation		
F1	DEPTKN	Depth of Knowledge		
A2	CYCLE	Year cycle (2 characters)		
A2	DOMAIN	Domain		
A2	LEVEL	Level		
A50	SCENARIO	Scenario		
A4	ADMYEAR	Administration Year	For each administration year a separate line will be provided	
A3	RELEASED	Released position or N/R		
A3	MATURITY	PP, PI, FT, OP, RL, EM	Pre-pilot, Pilot, Field-Test, Operational, Released, Emergency	
A3	FUNC	Item Function in Current Administration (CO, FC, EC, LI)	Core, Future core, Extended core, Linking	
A3	CHAR_COD	Character Code	See the spreadsheet 'Codes'	
F2	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).	
A60	FORMS	Form Numbers (string of 3x20 characters)	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).	

Field Format	Field Name	Field Description	Notes	
A60	POSITS	Test Positions (string of 3x20 characters)	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).	
F6	NCOUNT	N-count	Number of calibration cases used to produce statistics	
F6	N_MAL	Ncount Males	N-counts for break-down groups	
F6	N_FEM	Ncount Females		
F6	N_WHI	Ncount White		
F6	N_BLA	Ncount Black		
F2	COM1	Percent for Comment Code 1		
F2	COM2	Percent for Comment Code 2		
F2	COM3	Percent for Comment Code 3		
F2	COM4	Percent for Comment Code 4		
F2	COM5	Percent for Comment Code 5		
F2	COM6	Percent for Comment Code 6		
F2	COM7	Percent for Comment Code 7		
F2	COM8	Percent for Comment Code 8		
F2	COM9	Percent for Comment Code 9		
F2	COM10	Percent for Comment Code 10 (not used yet)		
F2	COM11	Percent for Comment Code 11 (not used yet)		
F2	COM12	Percent for Comment Code 12 (not used yet)		
F2	COND_A	Percent for Condition Code A	Codition code distribution (for CR items only, see the spreadsheet "Codes")	
F2	COND_B	Percent for Condition Code B		
F2	COND_C	Percent for Condition Code C		
F2	COND_D	Percent for Condition Code D		
F2	COND_E	Percent for Condition Code E		
F2	COND_F	Percent for Condition Code F (not used yet)		
F2	COND_G	Percent for Condition Code G (not used yet)		
F2	COND_H	Percent for Condition Code H (not used yet)		
F2	A	Percent (option A or scorepoint 0)	Percent of ALL calibration cases	
F2	B	Percent (option B or scorepoint 1)		
F2	C	Percent (option C or scorepoint 2)		
F2	D	Percent (option D or scorepoint 3)		
F2	M	Percent (mult. marks or scorepoint 4)		

Field Format	Field Name	Field Description	Notes	
F2	S5	Percent (scorepoint 5)		
F2	S6	Percent (scorepoint 6)		
F2	O	Percent (Omits)		
F2	MAA	Male Percent (A or 0)	Percent for MALE calibration cases	
F2	MAB	Male Percent (B or 1)		
F2	MAC	Male Percent (C or 2)		
F2	MAD	Male Percent (D or 3)		
F2	MAM	Male Percent (MM or 4)		
F2	MAS5	Male Percent (scorepoint 5)		
F2	MAS6	Male Percent (scorepoint 6)		
F2	MAO	Male Percent (Omits)		
F2	FEA	Female Percent (A or 0)	Percent for FEMALE calibration cases	
F2	FEB	Female Percent (B or 1)		
F2	FEC	Female Percent (C or 2)		
F2	FED	Female Percent (D or 3)		
F2	FEM	Female Percent (MM or 4)		
F2	FES5	Female Percent (scorepoint 5)		
F2	FES6	Female Percent (scorepoint 6)		
F2	FEO	Female Percent (Omits)		
F2	WHA	White Percent (A or 0)	Percent for WHITE calibration cases	
F2	WHB	White Percent (B or 1)		
F2	WHC	White Percent (C or 2)		
F2	WHD	White Percent (D or 3)		
F2	WHM	White Percent (MM or 4)		
F2	WHS5	White Percent (scorepoint 5)		
F2	WHS6	White Percent (scorepoint 6)		
F2	WHO	White Percent (Omits)		
F2	BLA	Black Percent (A or 0)	Percent for BLACK calibration cases	
F2	BLB	Black Percent (B or 1)		
F2	BLC	Black Percent (C or 2)		
F2	BLD	Black Percent (D or 3)		
F2	BLM	Black Percent (MM or 4)		
F2	BLS5	Black Percent (scorepoint 5)		
F2	BLS6	Black Percent (scorepoint 6)		

Field Format	Field Name	Field Description	Notes	
F2	BLO	Black Percent (Omits)		
F8.4	PVAL	P-value or Item Mean	P-value or arithmetic mean of item scores (all cases)	
F8.4	MPVAL	P-value or Item Mean for Male	Impact analysis: item means for break-down groups	
F8.4	FPVAL	P-value or Item Mean for Female		
F8.4	WPVAL	P-value or Item Mean for White		
F8.4	BPVAL	P-value or Item Mean for Black		
F8.4	ADJPVAL	Adjusted P-value	Adjusted P-value = (Arithmetic mean - MIN item score) / (MAX item score - MIN item score)	
A5	DIFFICFL	Difficulty flag	Based on Test Construction Specifications	
F8.4	SDEV	Item Standard Deviation	Standard deviation of item scores	
F8.4	ITOT	Item-Total Correlation	Pearson product-moment correlation (Point-Biserial correlation for dichotomous items)	
F8.4	ITOTBIS	Biserial / Polyserial Correlation	For MC: biserial, for CR:poliserial (optional)	
F8.4	ITOTC	Point-Biserial Correlation (corrected)	For MC items (corrected for maximal possible value)	
A2	ITOTFL	Item-Total correlation flag	Based on Test Construction Specifications	
F8.4	APB	P-b correlation for option A	Options point-biserial correlations (for CR items only Omits Rpb is supplied)	
F8.4	BPB	P-b correlation for option B		
F8.4	CPB	P-b correlation for option C		
F8.4	DPB	P-b correlation for option D		
F8.4	OPB	P-b correlation for Omits		
A7	MISKFL	Flag for potential miskeying	Based on Test Construction Specifications	
F8.4	MCHI_MF	Mantel CHSQ Male-Female	DIF analyses: Mantel chi-square (for both dichotomous and polytomous items), Mantel-Haenszel Delta and corresponding standard error for dichotomous items (not supplied for polytomous items)	
F8.4	MHD_MF	Mantel-Haenszel Delta Male-Female		
F8.4	MHDSE_MF	Mantel-Haenszel Delta St. Error Male-Female		
F8.4	MCHI_WB	Mantel CHSQ White-Black		
F8.4	MHD_WB	Mantel-Haenszel Delta White-Black		
F8.4	MHDSE_WB	Mantel-Haenszel Delta St. Error White-Black		
F8.4	SMDS_MF	SMD signed M-F	DIF analyses: Standardized Mean Difference (signed: mean of algebraic differences; unsigned: mean of absolute differences); Effect size of signed SMD	
F8.4	SMDES_MF	SMD signed Effect Size for M-F		
F8.4	SMDU_MF	SMD unsigned M-F		
F8.4	SMDS_WB	SMD signed W-B		
F8.4	SMDES_WB	SMD signed Effect Size for W-B		
F8.4	SMDU_WB	SMD unsigned W-B		

Field Format	Field Name	Field Description	Notes	
A2	DIF_MF	DIF category for M-F (A, B, C)	DIF level categorization: A - no or negligible, B - moderate, C - substantial.	
A2	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)		
F8.5	BPAR	B parameter (scaled)	Scaled (equated) IRT parameters: for MC items: A, B, and C; for CR items: A, B, D1, D2, D3, D4, D5, D6, and corresponding standard errors. For Rasch model A and C will not be supplied.	
F8.5	BSE	SE for B parameter (scaled)		
F8.5	D1	D1 category parameter (scaled)		
F8.5	D1SE	SE for D1 category parameter (scaled)		
F8.5	D2	D2 category parameter (scaled)		
F8.5	D2SE	SE for D2 category parameter (scaled)		
F8.5	D3	D3 category parameter (scaled)		
F8.5	D3SE	SE for D3 category parameter (scaled)		
F8.5	D4	D4 category parameter (scaled)		
F8.5	D4SE	SE for D4 category parameter (scaled)		
F8.5	D5	D5 category parameter (scaled)		
F8.5	D5SE	SE for D5 category parameter (scaled)		
F8.5	D6	D6 category parameter (scaled)		
F8.5	D6SE	SE for D6 category parameter (scaled)		
F8.4	MSQIN	Mean-square infit	Rasch fit index and flag: blank (0.5 < 1.5), MM (misfit moderate: 1.5 < 2.0), MH (misfit high: 2.0 <), TP (too predictable: < 0.5). Not supplied for 3PL and 2PPC models.	
F8.4	MSQOUT	Mean-square outfit		
A2	MSQFITFL	Mean-square fit flag (blank, MM, MH, TP)		
F1	FITLEV	Misfit level (0, 1, 2)		
F8.5	INFO1	Item information at cut point 1	Item information at performance level cut-points.	
F8.5	INFO2	Item information at cut point 2		
F8.5	INFO3	Item information at cut point 3		
F8.3	TH01	Theta point 1	Theta points for plotting conditional item means.	
F8.3	TH02	Theta point 2		
F8.3	TH03	Theta point 3		
F8.3	TH04	Theta point 4		
F8.3	TH05	Theta point 5		
F8.3	TH06	Theta point 6		
F8.3	TH07	Theta point 7		

Field Format	Field Name	Field Description	Notes	
F8.3	TH08	Theta point 8		
F8.3	TH09	Theta point 9		
F8.3	TH10	Theta point 10		
F8.3	AD01	Conditional Item Mean for Decile 1	Conditional item means plot: All	
F8.3	AD02	Conditional Item Mean for Decile 2		
F8.3	AD03	Conditional Item Mean for Decile 3		
F8.3	AD04	Conditional Item Mean for Decile 4		
F8.3	AD05	Conditional Item Mean for Decile 5		
F8.3	AD06	Conditional Item Mean for Decile 6		
F8.3	AD07	Conditional Item Mean for Decile 7		
F8.3	AD08	Conditional Item Mean for Decile 8		
F8.3	AD09	Conditional Item Mean for Decile 9		
F8.3	AD10	Conditional Item Mean for Decile 10		
F8.3	MD01	Conditional Item Mean for Decile 1	Conditional item means plot: Males	
F8.3	MD02	Conditional Item Mean for Decile 2		
F8.3	MD03	Conditional Item Mean for Decile 3		
F8.3	MD04	Conditional Item Mean for Decile 4		
F8.3	MD05	Conditional Item Mean for Decile 5		
F8.3	MD06	Conditional Item Mean for Decile 6		
F8.3	MD07	Conditional Item Mean for Decile 7		
F8.3	MD08	Conditional Item Mean for Decile 8		
F8.3	MD09	Conditional Item Mean for Decile 9		
F8.3	MD10	Conditional Item Mean for Decile 10		
F8.3	FD01	Conditional Item Mean for Decile 1	Conditional item means plot: Females	
F8.3	FD02	Conditional Item Mean for Decile 2		
F8.3	FD03	Conditional Item Mean for Decile 3		
F8.3	FD04	Conditional Item Mean for Decile 4		
F8.3	FD05	Conditional Item Mean for Decile 5		
F8.3	FD06	Conditional Item Mean for Decile 6		
F8.3	FD07	Conditional Item Mean for Decile 7		
F8.3	FD08	Conditional Item Mean for Decile 8		
F8.3	FD09	Conditional Item Mean for Decile 9		
F8.3	FD10	Conditional Item Mean for Decile 10		

Field Format	Field Name	Field Description	Notes		
F8.3	WD01	Conditional Item Mean for Decile 1	Conditional item means plot: Whites		
F8.3	WD02	Conditional Item Mean for Decile 2			
F8.3	WD03	Conditional Item Mean for Decile 3			
F8.3	WD04	Conditional Item Mean for Decile 4			
F8.3	WD05	Conditional Item Mean for Decile 5			
F8.3	WD06	Conditional Item Mean for Decile 6			
F8.3	WD07	Conditional Item Mean for Decile 7			
F8.3	WD08	Conditional Item Mean for Decile 8			
F8.3	WD09	Conditional Item Mean for Decile 9			
F8.3	WD10	Conditional Item Mean for Decile 10			
F8.3	BD01	Conditional Item Mean for Decile 1		Conditional item means plot: Blacks	
F8.3	BD02	Conditional Item Mean for Decile 2			
F8.3	BD03	Conditional Item Mean for Decile 3			
F8.3	BD04	Conditional Item Mean for Decile 4			
F8.3	BD05	Conditional Item Mean for Decile 5			
F8.3	BD06	Conditional Item Mean for Decile 6			
F8.3	BD07	Conditional Item Mean for Decile 7			
F8.3	BD08	Conditional Item Mean for Decile 8			
F8.3	BD09	Conditional Item Mean for Decile 9			
F8.3	BD10	Conditional Item Mean for Decile 10			
F8.3	A95_A0	95th percentile	Box & whisker plot: All	Option A /Score 0	
F8.3	A75_A0	75th percentile			
F8.3	A50_A0	50th percentile			
F8.3	A25_A0	25th percentile			
F8.3	A05_A0	5th percentile			
F8.3	M95_A0	95th percentile	Box & whisker plot: Males		
F8.3	M75_A0	75th percentile			
F8.3	M50_A0	50th percentile			
F8.3	M25_A0	25th percentile			
F8.3	M05_A0	5th percentile			
F8.3	F95_A0	95th percentile	Box & whisker plot: Females		
F8.3	F75_A0	75th percentile			
F8.3	F50_A0	50th percentile			

Field Format	Field Name	Field Description	Notes	
F8.3	F25_A0	25th percentile		
F8.3	F05_A0	5th percentile		
F8.3	W95_A0	95th percentile		
F8.3	W75_A0	75th percentile		
F8.3	W50_A0	50th percentile	Box & whisker plot: Whites	
F8.3	W25_A0	25th percentile		
F8.3	W05_A0	5th percentile		
F8.3	B95_A0	95th percentile		
F8.3	B75_A0	75th percentile		
F8.3	B50_A0	50th percentile	Box & whisker plot: Blacks	
F8.3	B25_A0	25th percentile		
F8.3	B05_A0	5th percentile		
F8.3	A95_B1	95th percentile		
F8.3	A75_B1	75th percentile		
F8.3	A50_B1	50th percentile	Box & whisker plot: All	
F8.3	A25_B1	25th percentile		
F8.3	A05_B1	5th percentile		
F8.3	M95_B1	95th percentile		
F8.3	M75_B1	75th percentile		
F8.3	M50_B1	50th percentile	Box & whisker plot: Males	
F8.3	M25_B1	25th percentile		
F8.3	M05_B1	5th percentile		
F8.3	F95_B1	95th percentile		
F8.3	F75_B1	75th percentile		
F8.3	F50_B1	50th percentile	Box & whisker plot: Females	
F8.3	F25_B1	25th percentile		
F8.3	F05_B1	5th percentile		
F8.3	W95_B1	95th percentile		
F8.3	W75_B1	75th percentile		
F8.3	W50_B1	50th percentile	Box & whisker plot: Whites	
F8.3	W25_B1	25th percentile		
F8.3	W05_B1	5th percentile		
F8.3	B95_B1	95th percentile		
F8.3	B75_B1	75th percentile	Box & whisker plot: Blacks	

Option B
/Score 1

Field Format	Field Name	Field Description	Notes	
F8.3	B50_B1	50th percentile		
F8.3	B25_B1	25th percentile		
F8.3	B05_B1	5th percentile		
F8.3	A95_C2	95th percentile	Box & whisker plot: All	Option C /Score 2
F8.3	A75_C2	75th percentile		
F8.3	A50_C2	50th percentile		
F8.3	A25_C2	25th percentile		
F8.3	A05_C2	5th percentile		
F8.3	M95_C2	95th percentile	Box & whisker plot: Males	
F8.3	M75_C2	75th percentile		
F8.3	M50_C2	50th percentile		
F8.3	M25_C2	25th percentile		
F8.3	M05_C2	5th percentile		
F8.3	F95_C2	95th percentile	Box & whisker plot: Females	
F8.3	F75_C2	75th percentile		
F8.3	F50_C2	50th percentile		
F8.3	F25_C2	25th percentile		
F8.3	F05_C2	5th percentile		
F8.3	W95_C2	95th percentile	Box & whisker plot: Whites	
F8.3	W75_C2	75th percentile		
F8.3	W50_C2	50th percentile		
F8.3	W25_C2	25th percentile		
F8.3	W05_C2	5th percentile		
F8.3	B95_C2	95th percentile	Box & whisker plot: Blacks	
F8.3	B75_C2	75th percentile		
F8.3	B50_C2	50th percentile		
F8.3	B25_C2	25th percentile		
F8.3	B05_C2	5th percentile		
F8.3	A95_D3	95th percentile	Box & whisker plot: All	Option D /Score 3
F8.3	A75_D3	75th percentile		
F8.3	A50_D3	50th percentile		
F8.3	A25_D3	25th percentile		
F8.3	A05_D3	5th percentile		
F8.3	M95_D3	95th percentile	Box & whisker plot: Males	

Field Format	Field Name	Field Description	Notes	
F8.3	M75_D3	75th percentile		
F8.3	M50_D3	50th percentile		
F8.3	M25_D3	25th percentile		
F8.3	M05_D3	5th percentile		
F8.3	F95_D3	95th percentile		
F8.3	F75_D3	75th percentile		
F8.3	F50_D3	50th percentile	Box & whisker plot: Females	
F8.3	F25_D3	25th percentile		
F8.3	F05_D3	5th percentile		
F8.3	W95_D3	95th percentile		
F8.3	W75_D3	75th percentile		
F8.3	W50_D3	50th percentile	Box & whisker plot: Whites	
F8.3	W25_D3	25th percentile		
F8.3	W05_D3	5th percentile		
F8.3	B95_D3	95th percentile		
F8.3	B75_D3	75th percentile		
F8.3	B50_D3	50th percentile	Box & whisker plot: Blacks	
F8.3	B25_D3	25th percentile		
F8.3	B05_D3	5th percentile		
F8.3	A95_4	95th percentile		
F8.3	A75_4	75th percentile		
F8.3	A50_4	50th percentile	Box & whisker plot: All	
F8.3	A25_4	25th percentile		
F8.3	A05_4	5th percentile		
F8.3	M95_4	95th percentile		
F8.3	M75_4	75th percentile		
F8.3	M50_4	50th percentile	Box & whisker plot: Males	
F8.3	M25_4	25th percentile		
F8.3	M05_4	5th percentile		
F8.3	F95_4	95th percentile		
F8.3	F75_4	75th percentile		
F8.3	F50_4	50th percentile	Box & whisker plot: Females	
F8.3	F25_4	25th percentile		
F8.3	F05_4	5th percentile		

Field Format	Field Name	Field Description	Notes	
F8.3	W95_4	95th percentile	Box & whisker plot: Whites	
F8.3	W75_4	75th percentile		
F8.3	W50_4	50th percentile		
F8.3	W25_4	25th percentile		
F8.3	W05_4	5th percentile		
F8.3	B95_4	95th percentile		
F8.3	B75_4	75th percentile	Box & whisker plot: Blacks	
F8.3	B50_4	50th percentile		
F8.3	B25_4	25th percentile		
F8.3	B05_4	5th percentile		
F8.3	A95_5	95th percentile		
F8.3	A75_5	75th percentile		
F8.3	A50_5	50th percentile		
F8.3	A25_5	25th percentile		
F8.3	A05_5	5th percentile		
F8.3	M95_5	95th percentile	Box & whisker plot: Males	
F8.3	M75_5	75th percentile		
F8.3	M50_5	50th percentile		
F8.3	M25_5	25th percentile		
F8.3	M05_5	5th percentile		
F8.3	F95_5	95th percentile	Box & whisker plot: Females	
F8.3	F75_5	75th percentile		
F8.3	F50_5	50th percentile		
F8.3	F25_5	25th percentile		
F8.3	F05_5	5th percentile		
F8.3	W95_5	95th percentile	Box & whisker plot: Whites	
F8.3	W75_5	75th percentile		
F8.3	W50_5	50th percentile		
F8.3	W25_5	25th percentile		
F8.3	W05_5	5th percentile		
F8.3	B95_5	95th percentile	Box & whisker plot: Blacks	
F8.3	B75_5	75th percentile		
F8.3	B50_5	50th percentile		
F8.3	B25_5	25th percentile		

Field Format	Field Name	Field Description	Notes	
F8.3	B05_5	5th percentile		
F8.3	A95_6	95th percentile	Box & whisker plot: All	Score 6
F8.3	A75_6	75th percentile		
F8.3	A50_6	50th percentile		
F8.3	A25_6	25th percentile		
F8.3	A05_6	5th percentile		
F8.3	M95_6	95th percentile		
F8.3	M75_6	75th percentile		
F8.3	M50_6	50th percentile		
F8.3	M25_6	25th percentile		
F8.3	M05_6	5th percentile		
F8.3	F95_6	95th percentile	Box & whisker plot: Females	
F8.3	F75_6	75th percentile		
F8.3	F50_6	50th percentile		
F8.3	F25_6	25th percentile		
F8.3	F05_6	5th percentile		
F8.3	W95_6	95th percentile	Box & whisker plot: Whites	
F8.3	W75_6	75th percentile		
F8.3	W50_6	50th percentile		
F8.3	W25_6	25th percentile		
F8.3	W05_6	5th percentile		
F8.3	B95_6	95th percentile	Box & whisker plot: Blacks	
F8.3	B75_6	75th percentile		
F8.3	B50_6	50th percentile		
F8.3	B25_6	25th percentile		
F8.3	B05_6	5th percentile		
F8.3	A95_OM	95th percentile	Box & whisker plot: All	Omits
F8.3	A75_OM	75th percentile		
F8.3	A50_OM	50th percentile		
F8.3	A25_OM	25th percentile		
F8.3	A05_OM	5th percentile		
F8.3	M95_OM	95th percentile	Box & whisker plot: Males	
F8.3	M75_OM	75th percentile		
F8.3	M50_OM	50th percentile		

Field Format	Field Name	Field Description	Notes	
F8.3	M25_OM	25th percentile		
F8.3	M05_OM	5th percentile		
F8.3	F95_OM	95th percentile		
F8.3	F75_OM	75th percentile		
F8.3	F50_OM	50th percentile	Box & whisker plot: Females	
F8.3	F25_OM	25th percentile		
F8.3	F05_OM	5th percentile		
F8.3	W95_OM	95th percentile		
F8.3	W75_OM	75th percentile		
F8.3	W50_OM	50th percentile	Box & whisker plot: Whites	
F8.3	W25_OM	25th percentile		
F8.3	W05_OM	5th percentile		
F8.3	B95_OM	95th percentile		
F8.3	B75_OM	75th percentile		
F8.3	B50_OM	50th percentile	Box & whisker plot: Blacks	
F8.3	B25_OM	25th percentile		
F8.3	B05_OM	5th percentile		

