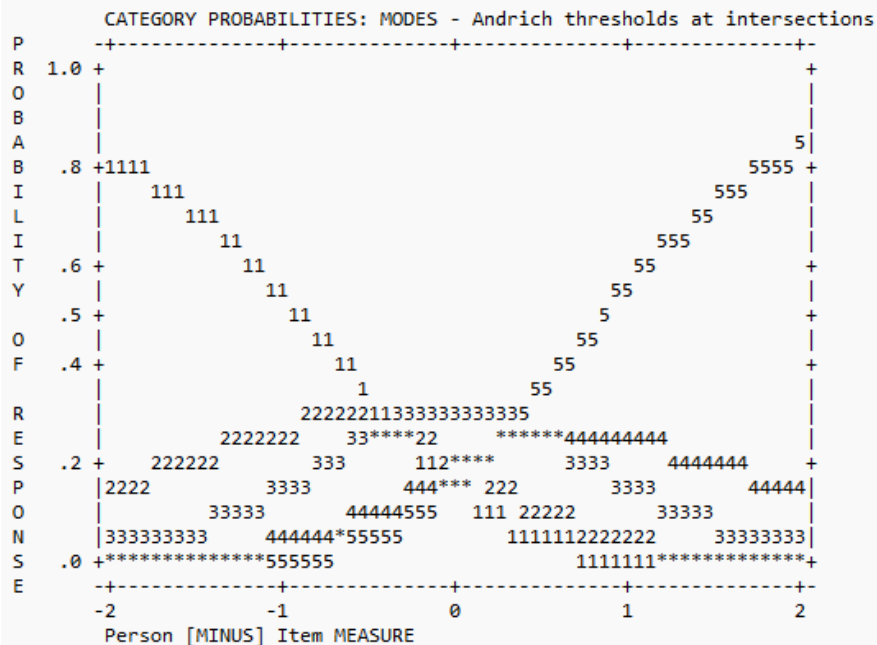


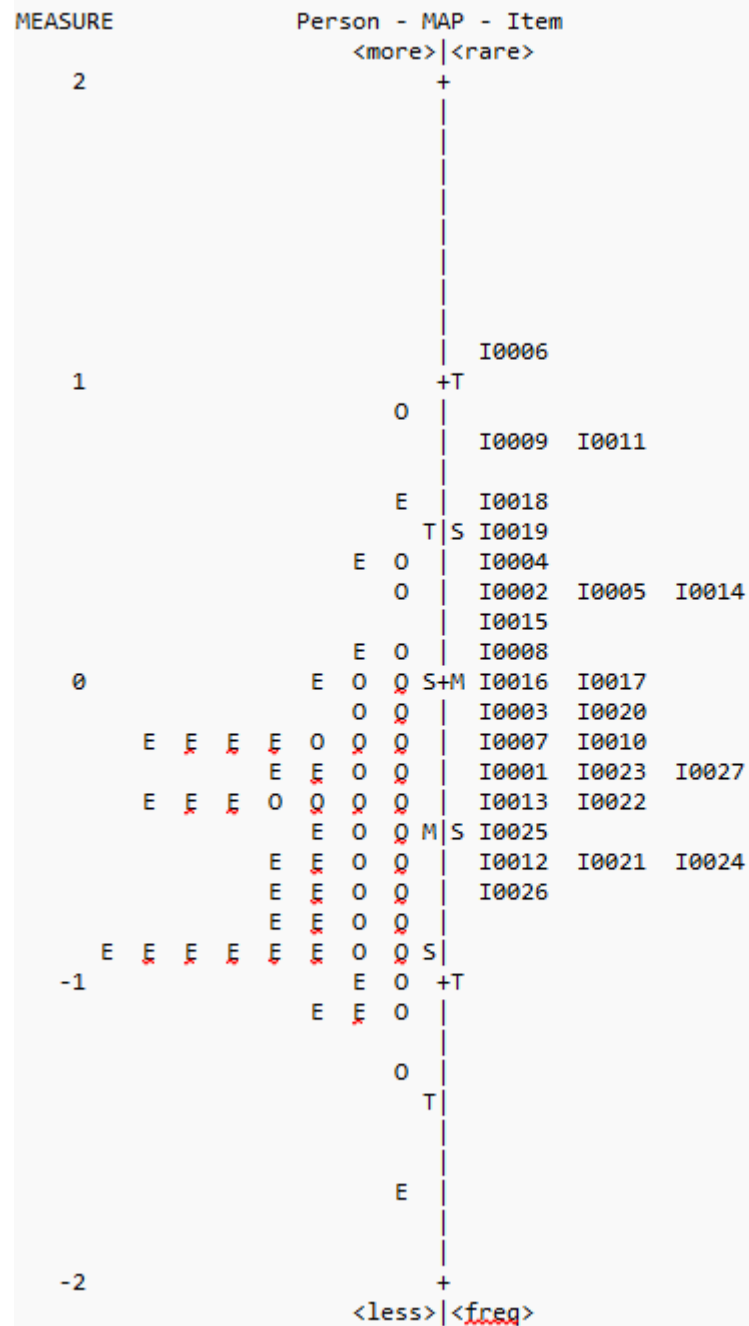
CATEGORY JMLE STRUCTURE			SCORE-TO-MEASURE			50% CUM.	COHERENCE			ESTIM
LABEL	MEASURE	S.E.	AT	CAT.	----ZONE----	PROBABLTY	M->C	C->M	RMSR	DISCR
1	NONE		(-1.88)	-INF	-1.29		80%	28%	1.1006	1
2	.29	.06	-.69	-1.29	-.31	-.89	27%	56%	.7407	1.16
3	-.40	.06	.01	-.31	.33	-.28	33%	46%	.7242	.94
4	.50	.07	.70	.33	1.28	.31	24%	24%	1.1920	.93
5	.20	.09	(1.84)	1.28	+INF	.87	43%	2%	1.8824	.66

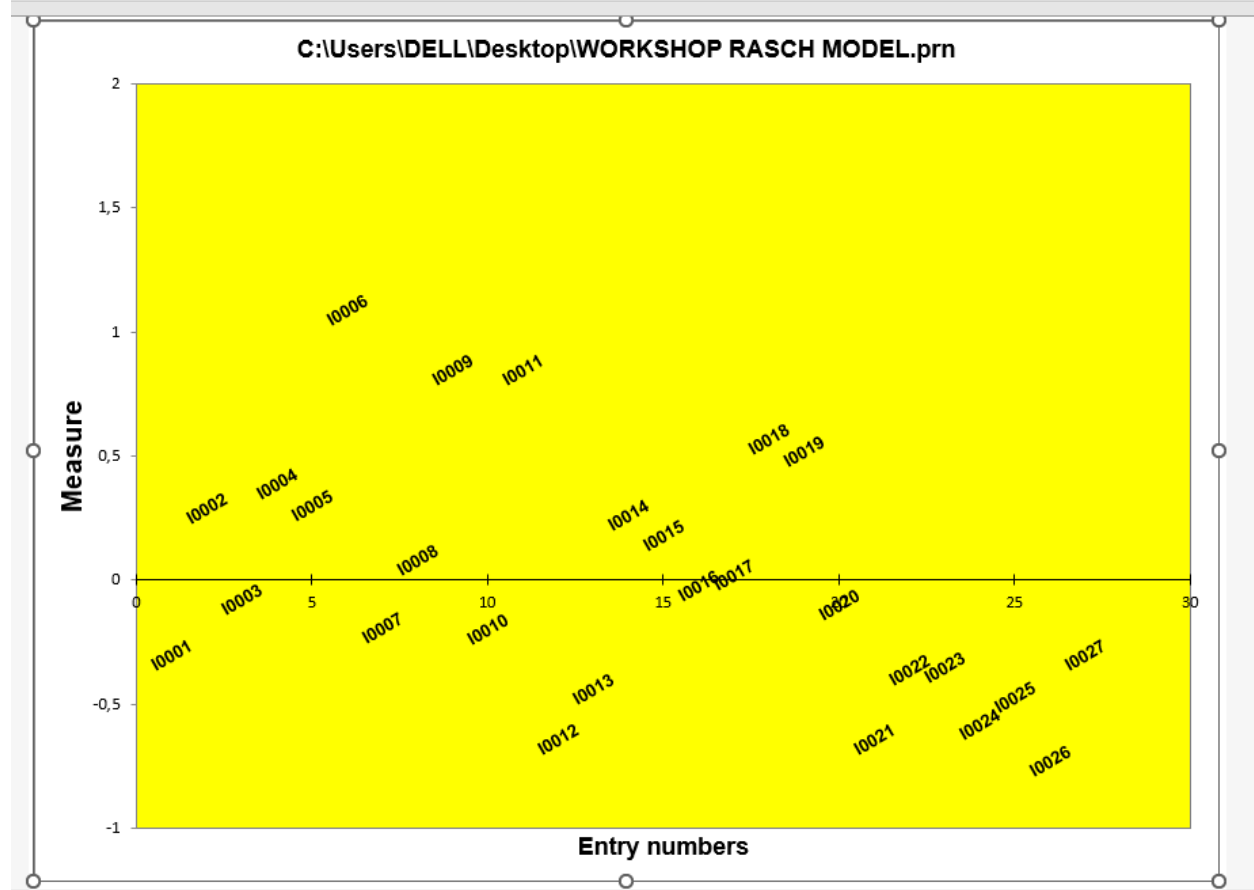
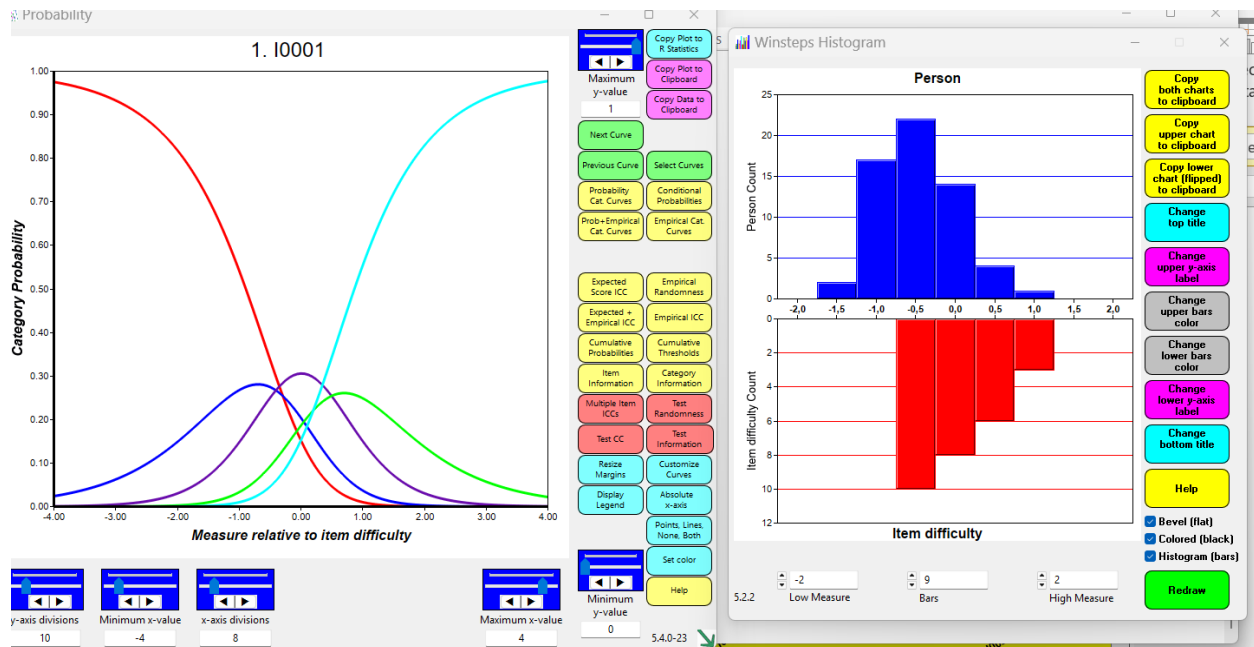
M->C = Does Measure imply Category?

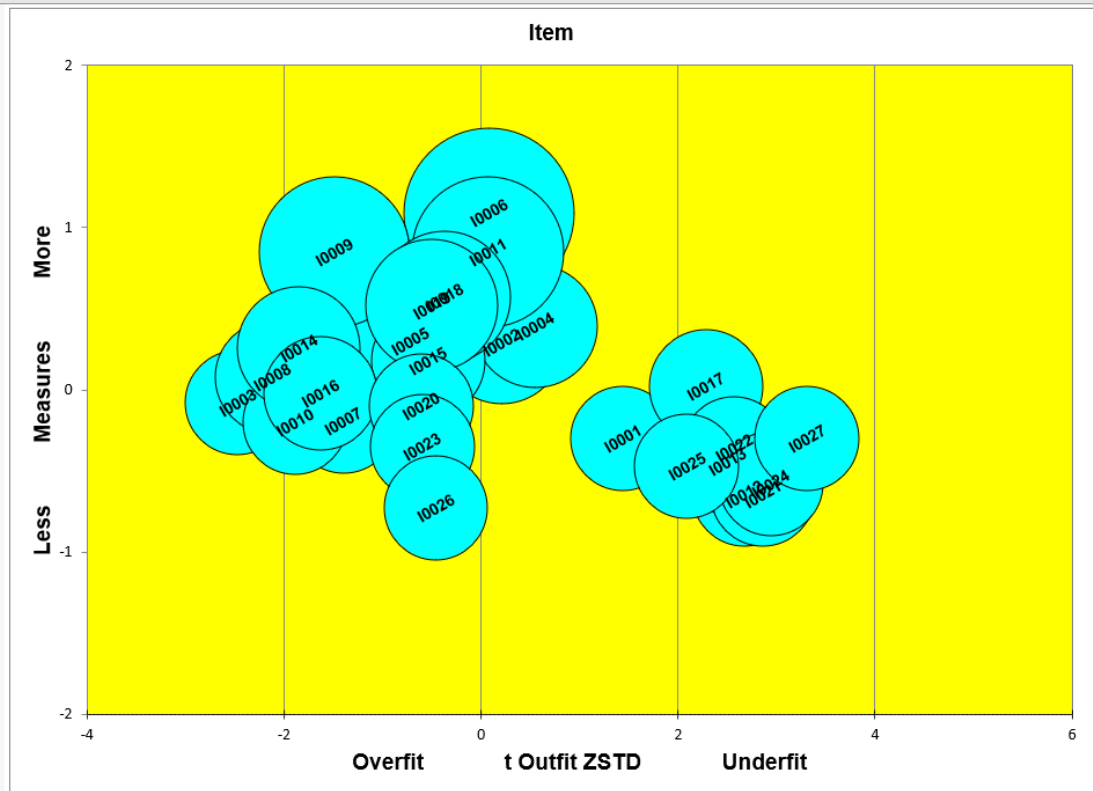
C->M = Does Category imply Measure?

Category Matrix : Confusion Matrix : Matching Matrix							
Predicted Scored-Category Frequency							
Obs	Cat	Freq	1	2	3	4	5
1	1		276.31	130.01	89.12	32.93	23.63
2	2		125.25	84.98	79.59	37.55	29.63
3	3		92.77	79.62	89.99	48.18	40.44
4	4		33.45	35.09	49.29	33.10	35.06
5	5		24.41	27.76	43.28	34.03	44.51
Total			552.19	357.47	351.28	185.80	173.26









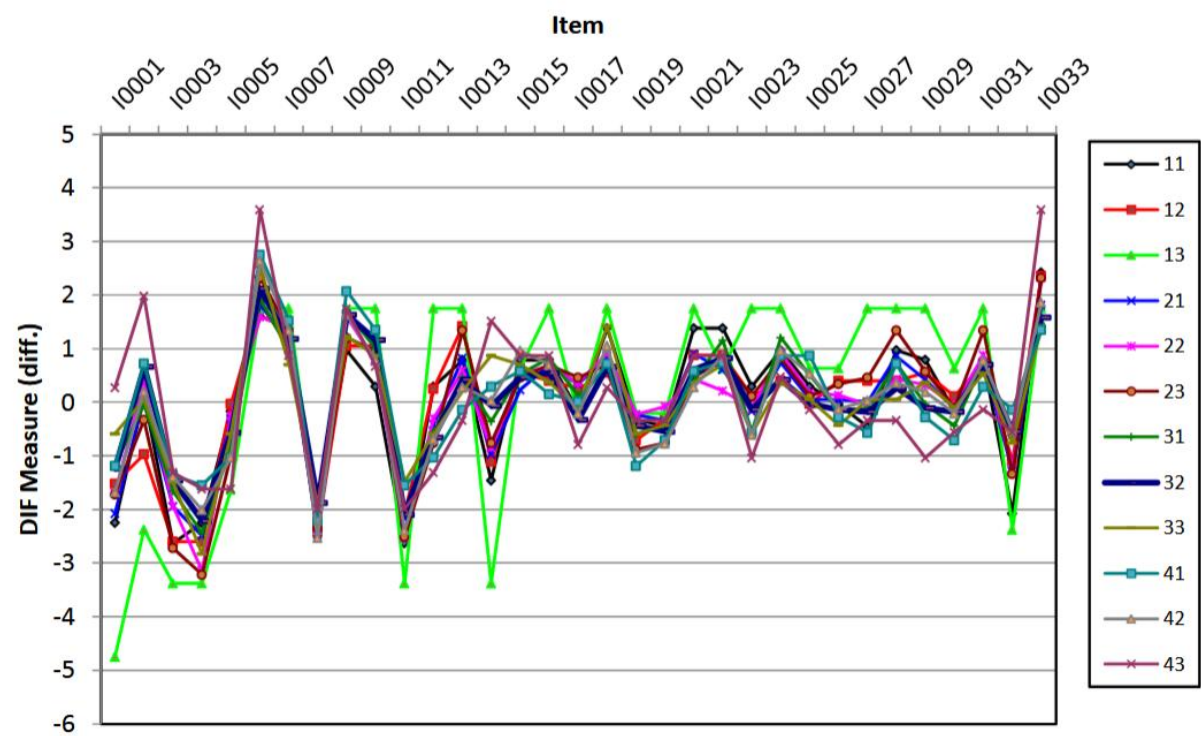


TABLE 3.1 C:\Users\DELL\Desktop\WORKSHOP RASCH M ZOU578WS.TXT Mar 01 2025 11:19
INPUT: 60 Person 27 Item REPORTED: 60 Person 27 Item 5 CATS WINSTEPS 5.5.0.0

SUMMARY OF 60 MEASURED Person

	TOTAL SCORE	COUNT	MEASURE	MODEL S.E.	INFIT		OUTFIT	
					MNSQ	ZSTD	MNSQ	ZSTD
MEAN	65.5	27.0	-.46	.18	1.05	-.26	1.04	-.23
SEM	2.0	.0	.06	.00	.09	.30	.10	.27
P.SD	15.2	.0	.47	.02	.69	2.29	.80	2.10
S.SD	15.3	.0	.48	.02	.69	2.31	.81	2.12
MAX.	111.0	27.0	.91	.29	3.95	6.10	5.67	7.18
MIN.	37.0	27.0	-1.67	.16	.23	-4.62	.27	-4.12
REAL RMSE	.21	TRUE SD	.43	SEPARATION	2.06	Person	RELIABILITY	.81
MODEL RMSE	.18	TRUE SD	.44	SEPARATION	2.39	Person	RELIABILITY	.85
S.E. OF Person MEAN = .06								

Person RAW SCORE-TO-MEASURE CORRELATION = .99

CRONBACH ALPHA (KR-20) Person RAW SCORE "TEST" RELIABILITY = .86 SEM = 5.77

STANDARDIZED (50 ITEM) RELIABILITY = .91

SUMMARY OF 27 MEASURED Item

	TOTAL SCORE	COUNT	MEASURE	MODEL S.E.	INFIT		OUTFIT	
					MNSQ	ZSTD	MNSQ	ZSTD
MEAN	145.7	60.0	.00	.12	1.02	.09	1.04	.26
SEM	6.4	.0	.09	.00	.05	.27	.06	.35
P.SD	32.5	.0	.48	.02	.23	1.37	.32	1.77
S.SD	33.2	.0	.49	.02	.24	1.39	.32	1.80
MAX.	201.0	60.0	1.09	.18	1.46	2.78	1.61	3.31
MIN.	86.0	60.0	-.73	.11	.66	-2.33	.62	-2.47
REAL RMSE	.13	TRUE SD	.46	SEPARATION	3.52	Item	RELIABILITY	.93
MODEL RMSE	.12	TRUE SD	.47	SEPARATION	3.74	Item	RELIABILITY	.93
S.E. OF Item MEAN = .09								

Item RAW SCORE-TO-MEASURE CORRELATION = -.99

