

4 Class Model - Marijuana Use, Grouping Variable
No Measurement Invariance

Data Summary, Model Information, and Fit Statistics (EM Algorithm)

Number of subjects in dataset: 2587
Number of subjects in analysis: 2587

Number of measurement items: 7
Response categories per item: 2 2 2 2 2 2 2
Number of groups in the data: 3
Number of latent classes: 4
Rho starting values were randomly generated (seed = 262040658).

No parameter restrictions were specified (freely estimated).

The model converged in 472 iterations.

Maximum number of iterations: 5000
Convergence method: maximum absolute deviation (MAD)
Convergence criterion: 0.000001000

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Fit statistics:
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Log-likelihood: -6483.16
G-squared: 303.36
AIC: 489.36
BIC: 1034.18
CAIC: 1127.18
Adjusted BIC: 738.69
Entropy: 0.94
Degrees of freedom: 290

Test for MCAR
Log-likelihood: -6331.48
G-squared: 309.74
Degrees of freedom: 989

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Parameter Estimates

(Standard errors could not be computed; please see the log file for details.)

Gamma estimates (class membership probabilities):

Class:	1	2	3	4
Y1 :	0.0762	0.1390	0.2824	0.5024
Y2 :	0.0991	0.1445	0.2265	0.5299
Y3 :	0.1135	0.1423	0.2168	0.5274

Rho estimates (item response probabilities):

Y1 :

Response category 1:

Class:	1	2	3	4
LIFETIME :	0.3180	1.0000	1.0000	0.1289
PREV_YR :	0.0000	0.9299	1.0000	0.0000
PREV_MO :	0.0000	0.3021	0.7440	0.0000
NEXT_MO :	0.1644	0.3162	0.8443	0.0138
APRV_TRY :	1.0000	0.7013	1.0000	0.1458
APRV_OCC :	1.0000	0.1778	0.9924	0.0059
APRV_REG :	0.3953	0.0102	0.6342	0.0021

Response category 2:

Class:	1	2	3	4
LIFETIME :	0.6820	0.0000	0.0000	0.8711
PREV_YR :	1.0000	0.0701	0.0000	1.0000
PREV_MO :	1.0000	0.6979	0.2560	1.0000
NEXT_MO :	0.8356	0.6838	0.1557	0.9862
APRV_TRY :	0.0000	0.2987	0.0000	0.8542
APRV_OCC :	0.0000	0.8222	0.0076	0.9941
APRV_REG :	0.6047	0.9898	0.3658	0.9979

Y2 :

Response category 1:

Class:	1	2	3	4
LIFETIME :	0.2466	1.0000	1.0000	0.1008
PREV_YR :	0.0000	0.8171	1.0000	0.0000
PREV_MO :	0.0000	0.1979	0.7231	0.0000
NEXT_MO :	0.1843	0.2705	0.8920	0.0112
APRV_TRY :	0.9416	0.5662	1.0000	0.1807
APRV_OCC :	1.0000	0.1870	1.0000	0.0085
APRV_REG :	0.4361	0.0298	0.5879	0.0000

Response category 2:

Class:	1	2	3	4
LIFETIME :	0.7534	0.0000	0.0000	0.8992
PREV_YR :	1.0000	0.1829	0.0000	1.0000
PREV_MO :	1.0000	0.8021	0.2769	1.0000
NEXT_MO :	0.8157	0.7295	0.1080	0.9888
APRV_TRY :	0.0584	0.4338	0.0000	0.8193
APRV_OCC :	0.0000	0.8130	0.0000	0.9915
APRV_REG :	0.5639	0.9702	0.4121	1.0000

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Y3	:				
Response category 1:					
Class:		1	2	3	4
LIFETIME	:	0.3768	1.0000	1.0000	0.1326
PREV_YR	:	0.0000	0.9950	1.0000	0.0000
PREV_MO	:	0.0000	0.2941	0.7342	0.0000
NEXT_MO	:	0.2534	0.3211	0.9135	0.0224
APRV_TRY	:	1.0000	0.7231	1.0000	0.1715
APRV_OCC	:	0.9108	0.2562	1.0000	0.0000
APRV_REG	:	0.4127	0.0257	0.5990	0.0024

Response category 2:					
Class:		1	2	3	4
LIFETIME	:	0.6232	0.0000	0.0000	0.8674
PREV_YR	:	1.0000	0.0050	0.0000	1.0000
PREV_MO	:	1.0000	0.7059	0.2658	1.0000
NEXT_MO	:	0.7466	0.6789	0.0865	0.9776
APRV_TRY	:	0.0000	0.2769	0.0000	0.8285
APRV_OCC	:	0.0892	0.7438	0.0000	1.0000
APRV_REG	:	0.5873	0.9743	0.4010	0.9976

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Number of subjects in analysis: 2587

Number of measurement items: 7
Response categories per item: 2 2 2 2 2 2 2
Number of groups in the data: 3
Number of latent classes: 4
Rho starting values were randomly generated (seed = 262040658).

Rho (measurement) parameters were constrained to be equal across groups.

The model converged in 73 iterations.

Maximum number of iterations: 5000
Convergence method: maximum absolute deviation (MAD)
Convergence criterion: 0.000001000

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Fit statistics:
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Log-likelihood: -6505.68
G-squared: 348.39
AIC: 422.39
BIC: 639.15
CAIC: 676.15
Adjusted BIC: 521.59
Entropy: 0.93
Degrees of freedom: 346

Test for MCAR
Log-likelihood: -6331.48
G-squared: 309.74
Degrees of freedom: 989

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Parameter Estimates

(Standard errors could not be computed; please see the log file for details.)

Gamma estimates (class membership probabilities):

Class:	1	2	3	4
Y1 :	0.0774	0.1432	0.2804	0.4990
Y2 :	0.1014	0.1352	0.2237	0.5398
Y3 :	0.1044	0.1472	0.2248	0.5236

Rho estimates (item response probabilities):

(All groups)

Response category 1:

Class:	1	2	3	4
LIFETIME :	0.3109	1.0000	1.0000	0.1204
PREV_YR :	0.0000	0.9047	1.0000	0.0000
PREV_MO :	0.0000	0.2616	0.7342	0.0000
NEXT_MO :	0.2020	0.3065	0.8748	0.0158
APRV_TRY :	0.9802	0.6674	1.0000	0.1658
APRV_OCC :	0.9815	0.1986	0.9972	0.0054
APRV_REG :	0.4232	0.0201	0.6082	0.0019

Response category 2:

Class:	1	2	3	4
LIFETIME :	0.6891	0.0000	0.0000	0.8796
PREV_YR :	1.0000	0.0953	0.0000	1.0000
PREV_MO :	1.0000	0.7384	0.2658	1.0000
NEXT_MO :	0.7980	0.6935	0.1252	0.9842
APRV_TRY :	0.0198	0.3326	0.0000	0.8342
APRV_OCC :	0.0185	0.8014	0.0028	0.9946
APRV_REG :	0.5768	0.9799	0.3918	0.9981