

Mplus VERSION 8.8
MUTHEN & MUTHEN
08/14/2022 2:24 PM

INPUT INSTRUCTIONS

```
TITLE: covid data cpa(2);
DATA: FILE IS wave13.csv;
VARIABLE: NAMES ARE prebike frebike intent wave educ age income hhveh bike prebzm white
di
    cov1-cov12 onl1-onl5 env1-env3 soc1-soc3 out1-out4 change;
    MISSING = .;
    USEVARIABLES ARE cov1-cov12 env1-env3 onl1-onl5 prebike bike frebike intent
    age educ hhveh income change; !soc1-soc3 out1-out4;
    CATEGORICAL = cov1-cov12 env1-env3 onl1-onl5 prebike bike change; !soc1-soc3 o
ut

ANALYSIS: !TYPE = EFA 5 6;
    !ROTATION=VARIMAX;
    !ROTATION=GEOMIN (oblique);
    !ESTIMATOR=ML;
    !ROTATION=PROMAX;
    PARAMETERIZATION=THETA;
    !STARTS = 100;

MODEL:
    f1 by cov1-cov4;
    f2 by cov11 cov12 cov3;
    f3 by cov5-cov10;
    f4 by env1-env3;
    f5 by onl1-onl5;
    f6 by prebike bike frebike;
    intent ON f1 f2 f3 f4 f5 f6 age educ hhveh income;
    change ON f6 intent age educ hhveh income;

OUTPUT: !STANDARDIZED;
    STDYX;
    MODINDICES;
```

*** WARNING

Input line exceeded 90 characters. Some input may be truncated.

VARIABLE: NAMES ARE prebike frebike intent wave educ age income hhveh bike prebzm white
dis

*** WARNING

Input line exceeded 90 characters. Some input may be truncated.

CATEGORICAL = cov1-cov12 env1-env3 onl1-onl5 prebike bike change; !soc1-soc3 o
ut1

*** WARNING

Data set contains cases with missing on x-variables.

These cases were not included in the analysis.

Number of cases with missing on x-variables: 25

3 WARNING(S) FOUND IN THE INPUT INSTRUCTIONS

covid data cpa(2);

SUMMARY OF ANALYSIS

Number of groups 1
 Number of observations 2399

Number of dependent variables 25
 Number of independent variables 4
 Number of continuous latent variables 6

Observed dependent variables

Continuous

FREBIKE INTENT

Binary and ordered categorical (ordinal)

COV1	COV2	COV3	COV4	COV5	COV6
COV7	COV8	COV9	COV10	COV11	COV12
ENV1	ENV2	ENV3	ONL1	ONL2	ONL3
ONL4	ONL5	PREBIKE	BIKE	CHANGE	

Observed independent variables

AGE EDUC HHVEH INCOME

Continuous latent variables

F1 F2 F3 F4 F5 F6

Estimator	WLSMV
Maximum number of iterations	1000
Convergence criterion	0.500D-04
Maximum number of steepest descent iterations	20
Maximum number of iterations for H1	2000
Convergence criterion for H1	0.100D-03
Parameterization	THETA
Link	PROBIT

Input data file(s)
 wave13.csv

Input data format FREE

SUMMARY OF DATA

Number of missing data patterns 36

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

PROPORTION OF DATA PRESENT

	Covariance Coverage				
	COV1	COV2	COV3	COV4	COV5
COV1	0.999				
COV2	0.999	1.000			
COV3	0.997	0.998	0.998		
COV4	0.999	1.000	0.998	1.000	
COV5	0.529	0.530	0.529	0.529	0.530
COV6	0.999	1.000	0.998	1.000	0.530
COV7	0.998	0.999	0.997	0.999	0.529

COV8	0.999	1.000	0.998	0.999	0.529
COV9	0.998	0.999	0.997	0.999	0.529
COV10	0.999	1.000	0.998	0.999	0.529
COV11	0.999	1.000	0.998	1.000	0.530
COV12	0.999	1.000	0.998	0.999	0.530
ENV1	0.999	1.000	0.998	1.000	0.530
ENV2	0.999	1.000	0.998	1.000	0.530
ENV3	0.999	1.000	0.998	1.000	0.530
ONL1	0.998	0.999	0.998	0.999	0.529
ONL2	0.994	0.995	0.993	0.995	0.529
ONL3	0.995	0.996	0.995	0.996	0.529
ONL4	0.996	0.997	0.995	0.996	0.529
ONL5	0.996	0.997	0.996	0.997	0.529
PREBIKE	0.997	0.997	0.996	0.997	0.529
BIKE	0.999	1.000	0.998	1.000	0.530
FREBIKE	0.990	0.991	0.990	0.990	0.524
INTENT	0.976	0.977	0.976	0.977	0.517
CHANGE	0.990	0.991	0.990	0.990	0.524

	Covariance Coverage				
	COV6	COV7	COV8	COV9	COV10
COV6	1.000				
COV7	0.999	0.999			
COV8	1.000	0.999	1.000		
COV9	0.999	0.998	0.999	0.999	
COV10	1.000	0.999	1.000	0.999	1.000
COV11	1.000	0.999	1.000	0.999	1.000
COV12	1.000	0.999	0.999	0.999	0.999
ENV1	1.000	0.999	1.000	0.999	1.000
ENV2	1.000	0.999	1.000	0.999	1.000
ENV3	1.000	0.999	1.000	0.999	1.000
ONL1	0.999	0.998	0.999	0.998	0.999
ONL2	0.995	0.994	0.995	0.994	0.995
ONL3	0.996	0.995	0.996	0.995	0.996
ONL4	0.997	0.996	0.996	0.996	0.996
ONL5	0.997	0.996	0.997	0.996	0.997
PREBIKE	0.997	0.997	0.997	0.997	0.997
BIKE	1.000	0.999	1.000	0.999	1.000
FREBIKE	0.991	0.990	0.990	0.990	0.990
INTENT	0.977	0.976	0.977	0.976	0.977
CHANGE	0.991	0.990	0.990	0.990	0.990

	Covariance Coverage				
	COV11	COV12	ENV1	ENV2	ENV3
COV11	1.000				
COV12	1.000	1.000			
ENV1	1.000	1.000	1.000		
ENV2	1.000	1.000	1.000	1.000	
ENV3	1.000	1.000	1.000	1.000	1.000
ONL1	0.999	0.999	0.999	0.999	0.999
ONL2	0.995	0.995	0.995	0.995	0.995
ONL3	0.996	0.996	0.996	0.996	0.996
ONL4	0.997	0.996	0.997	0.997	0.997
ONL5	0.997	0.997	0.997	0.997	0.997
PREBIKE	0.997	0.997	0.997	0.997	0.997
BIKE	1.000	1.000	1.000	1.000	1.000
FREBIKE	0.991	0.990	0.991	0.991	0.991
INTENT	0.977	0.977	0.977	0.977	0.977
CHANGE	0.991	0.990	0.991	0.991	0.991

	Covariance Coverage				
	ONL1	ONL2	ONL3	ONL4	ONL5
ONL1	0.999				
ONL2	0.994	0.995			
ONL3	0.995	0.992	0.996		
ONL4	0.996	0.992	0.996	0.997	
ONL5	0.996	0.993	0.996	0.997	0.997
PREBIKE	0.997	0.992	0.994	0.994	0.995
BIKE	0.999	0.995	0.996	0.997	0.997
FREBIKE	0.990	0.986	0.987	0.987	0.988
INTENT	0.976	0.973	0.974	0.974	0.975
CHANGE	0.990	0.986	0.987	0.987	0.988

	Covariance Coverage				
	PREBIKE	BIKE	FREBIKE	INTENT	CHANGE
PREBIKE	0.997				
BIKE	0.997	1.000			
FREBIKE	0.989	0.991	0.991		
INTENT	0.975	0.977	0.969	0.977	
CHANGE	0.989	0.991	0.991	0.969	0.991

UNIVARIATE PROPORTIONS AND COUNTS FOR CATEGORICAL VARIABLES

COV1		
Category 1	0.078	187.000
Category 2	0.141	338.000
Category 3	0.143	343.000
Category 4	0.311	745.000
Category 5	0.327	784.000
COV2		
Category 1	0.051	122.000
Category 2	0.075	181.000
Category 3	0.122	292.000
Category 4	0.355	851.000
Category 5	0.397	953.000
COV3		
Category 1	0.063	150.000
Category 2	0.077	184.000
Category 3	0.096	229.000
Category 4	0.289	691.000
Category 5	0.476	1141.000
COV4		
Category 1	0.105	251.000
Category 2	0.161	385.000
Category 3	0.241	578.000
Category 4	0.284	682.000
Category 5	0.209	502.000
COV5		
Category 1	0.146	185.000
Category 2	0.185	235.000
Category 3	0.308	392.000
Category 4	0.216	275.000
Category 5	0.145	184.000
COV6		
Category 1	0.053	126.000
Category 2	0.274	658.000
Category 3	0.440	1055.000
Category 4	0.173	414.000
Category 5	0.061	146.000

COV7		
Category 1	0.025	61.000
Category 2	0.048	115.000
Category 3	0.197	472.000
Category 4	0.393	942.000
Category 5	0.337	807.000
COV8		
Category 1	0.523	1253.000
Category 2	0.377	903.000
Category 3	0.072	173.000
Category 4	0.014	34.000
Category 5	0.015	35.000
COV9		
Category 1	0.030	73.000
Category 2	0.135	323.000
Category 3	0.373	894.000
Category 4	0.301	722.000
Category 5	0.161	385.000
COV10		
Category 1	0.020	47.000
Category 2	0.052	124.000
Category 3	0.191	458.000
Category 4	0.335	803.000
Category 5	0.403	966.000
COV11		
Category 1	0.556	1333.000
Category 2	0.163	392.000
Category 3	0.085	204.000
Category 4	0.112	268.000
Category 5	0.084	202.000
COV12		
Category 1	0.364	873.000
Category 2	0.227	544.000
Category 3	0.145	348.000
Category 4	0.142	340.000
Category 5	0.122	293.000
ENV1		
Category 1	0.038	92.000
Category 2	0.068	164.000
Category 3	0.238	572.000
Category 4	0.442	1061.000
Category 5	0.213	510.000
ENV2		
Category 1	0.098	235.000
Category 2	0.181	435.000
Category 3	0.282	677.000
Category 4	0.289	694.000
Category 5	0.149	358.000
ENV3		
Category 1	0.178	426.000
Category 2	0.180	432.000
Category 3	0.243	583.000
Category 4	0.253	607.000
Category 5	0.146	351.000
ONL1		
Category 1	0.041	99.000
Category 2	0.064	154.000
Category 3	0.164	393.000
Category 4	0.377	904.000
Category 5	0.353	847.000
ONL2		
Category 1	0.075	178.000
Category 2	0.070	168.000
Category 3	0.390	930.000

Category 4	0.214	510.000
Category 5	0.252	601.000
ONL3		
Category 1	0.039	94.000
Category 2	0.077	184.000
Category 3	0.199	475.000
Category 4	0.418	1000.000
Category 5	0.267	637.000
ONL4		
Category 1	0.136	326.000
Category 2	0.191	456.000
Category 3	0.164	393.000
Category 4	0.336	803.000
Category 5	0.173	413.000
ONL5		
Category 1	0.136	325.000
Category 2	0.196	469.000
Category 3	0.214	511.000
Category 4	0.305	729.000
Category 5	0.150	358.000
PREBIKE		
Category 1	0.686	1642.000
Category 2	0.120	286.000
Category 3	0.099	237.000
Category 4	0.073	175.000
Category 5	0.022	53.000
BIKE		
Category 1	0.566	1359.000
Category 2	0.434	1040.000
CHANGE		
Category 1	0.013	31.000
Category 2	0.107	255.000
Category 3	0.814	1936.000
Category 4	0.054	129.000
Category 5	0.011	26.000

UNIVARIATE SAMPLE STATISTICS

UNIVARIATE HIGHER-ORDER MOMENT DESCRIPTIVE STATISTICS

s	Variable/	Mean/	Skewness/	Minimum/	% with	Percentile	
	Sample Size	Variance	Kurtosis	Maximum	Min/Max	20%/60%	40%/80%
	Median						
	FREBIKE	0.411	3.496	0.000	83.38%	0.000	0.000
0.000	2377.000	1.327	13.017	7.000	0.76%	0.000	0.000
	INTENT	3.075	0.679	1.000	1.19%	3.000	3.000
3.000	2344.000	0.207	9.732	5.000	1.79%	3.000	3.000
	AGE	55.897	-0.436	18.000	0.29%	40.000	54.000
59.000	2399.000	240.646	-0.701	90.000	0.08%	63.000	70.000
	EDUC	3.662	-0.262	1.000	0.92%	3.000	3.000
4.000	2399.000	0.988	-0.741	5.000	23.09%	4.000	5.000
	HHVEH	2.687	0.531	1.000	6.42%	2.000	2.000
3.000	2399.000	0.843	0.229	5.000	4.79%	3.000	3.000
	INCOME	6.400	-0.038	1.000	3.08%	4.000	6.000

6.000	2399.000	6.091	-0.434	11.000	6.59%	7.000	9.000
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THIS ANALYSIS MAY HAVE MULTIPLE SOLUTIONS. EXPLORE THIS USING RANDOM STARTS, FOR EXAMPLE, STARTS = 20. USE A LARGE ENOUGH NUMBER OF STARTS SO THAT THE BEST FIT FUNCTION VALUE IS REPLICATED SEVERAL TIMES.

THE MODEL ESTIMATION TERMINATED NORMALLY

MODEL FIT INFORMATION

Number of Free Parameters 148

Chi-Square Test of Model Fit

Value	2740.038*
Degrees of Freedom	345
P-Value	0.0000

* The chi-square value for MLM, MLMV, MLR, ULSMV, WLSM and WLSMV cannot be used for chi-square difference testing in the regular way. MLM, MLR and WLSM chi-square difference testing is described on the Mplus website. MLMV, WLSMV, and ULSMV difference testing is done using the DIFFTEST option.

RMSEA (Root Mean Square Error Of Approximation)

Estimate	0.054
90 Percent C.I.	0.052 0.056
Probability RMSEA <= .05	0.000

CFI/TLI

CFI	0.957
TLI	0.951

Chi-Square Test of Model Fit for the Baseline Model

Value	56611.206
Degrees of Freedom	400
P-Value	0.0000

SRMR (Standardized Root Mean Square Residual)

Value	0.072
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Optimum Function Value for Weighted Least-Squares Estimator

Value	0.65330413D+00
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MODEL RESULTS

		Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
F1	BY				
	COV1	1.000	0.000	999.000	999.000
	COV2	0.965	0.057	17.022	0.000
	COV3	0.474	0.036	13.286	0.000

	COV4	0.556	0.031	17.921	0.000
F2	BY				
	COV11	1.000	0.000	999.000	999.000
	COV12	0.309	0.077	4.000	0.000
	COV3	-0.192	0.046	-4.151	0.000
F3	BY				
	COV5	1.000	0.000	999.000	999.000
	COV6	1.491	0.094	15.899	0.000
	COV7	1.804	0.116	15.581	0.000
	COV8	0.729	0.052	14.064	0.000
	COV9	1.522	0.094	16.180	0.000
	COV10	1.964	0.129	15.195	0.000
F4	BY				
	ENV1	1.000	0.000	999.000	999.000
	ENV2	0.843	0.064	13.218	0.000
	ENV3	0.801	0.056	14.403	0.000
F5	BY				
	ONL1	1.000	0.000	999.000	999.000
	ONL2	1.052	0.119	8.836	0.000
	ONL3	2.963	0.289	10.263	0.000
	ONL4	2.911	0.292	9.970	0.000
	ONL5	3.028	0.317	9.559	0.000
F6	BY				
	PREBIKE	1.000	0.000	999.000	999.000
	BIKE	9.641	24.180	0.399	0.690
	FREBIKE	0.547	0.021	25.808	0.000
INTENT	ON				
	F1	0.030	0.011	2.819	0.005
	F2	-0.001	0.003	-0.145	0.885
	F3	-0.026	0.019	-1.385	0.166
	F4	0.005	0.007	0.628	0.530
	F5	-0.065	0.033	-1.996	0.046
	F6	0.053	0.005	11.309	0.000
CHANGE	ON				
	F6	-0.318	0.015	-20.563	0.000
INTENT	ON				
	AGE	-0.002	0.001	-4.117	0.000
	EDUC	0.013	0.012	1.095	0.273
	HHVEH	-0.017	0.011	-1.442	0.149
	INCOME	0.005	0.005	1.132	0.258
CHANGE	ON				
	INTENT	-0.179	0.036	-4.970	0.000
	AGE	0.002	0.002	0.938	0.348
	EDUC	-0.023	0.036	-0.633	0.527
	HHVEH	0.010	0.035	0.285	0.776
	INCOME	-0.011	0.015	-0.753	0.451
F2	WITH				
	F1	-5.871	1.385	-4.240	0.000
F3	WITH				
	F1	0.921	0.070	13.080	0.000
	F2	-2.649	0.636	-4.166	0.000
F4	WITH				

F1	0.861	0.075	11.426	0.000
F2	-3.669	0.873	-4.203	0.000
F3	0.370	0.040	9.371	0.000
F5	WITH			
F1	0.239	0.026	9.013	0.000
F2	-0.748	0.189	-3.960	0.000
F3	0.105	0.013	7.938	0.000
F4	0.155	0.020	7.628	0.000
F6	WITH			
F1	-0.058	0.062	-0.934	0.350
F2	0.412	0.233	1.767	0.077
F3	-0.017	0.032	-0.543	0.587
F4	0.549	0.067	8.160	0.000
F5	-0.034	0.015	-2.200	0.028
Intercepts				
FREBIKE	0.565	0.144	3.913	0.000
INTENT	3.173	0.053	60.087	0.000
Thresholds				
COV1\$1	-2.058	0.247	-8.344	0.000
COV1\$2	-0.827	0.244	-3.391	0.001
COV1\$3	-0.017	0.243	-0.070	0.944
COV1\$4	1.514	0.247	6.140	0.000
COV2\$1	-3.175	0.252	-12.579	0.000
COV2\$2	-2.269	0.248	-9.130	0.000
COV2\$3	-1.415	0.245	-5.770	0.000
COV2\$4	0.320	0.243	1.320	0.187
COV3\$1	-3.909	0.277	-14.124	0.000
COV3\$2	-3.034	0.272	-11.147	0.000
COV3\$3	-2.333	0.266	-8.773	0.000
COV3\$4	-0.818	0.260	-3.144	0.002
COV4\$1	-1.678	0.177	-9.460	0.000
COV4\$2	-0.830	0.175	-4.737	0.000
COV4\$3	0.040	0.174	0.230	0.818
COV4\$4	1.112	0.175	6.345	0.000
COV5\$1	-2.334	0.245	-9.512	0.000
COV5\$2	-1.508	0.242	-6.241	0.000
COV5\$3	-0.449	0.238	-1.890	0.059
COV5\$4	0.478	0.238	2.004	0.045
COV6\$1	-4.253	0.226	-18.840	0.000
COV6\$2	-2.348	0.217	-10.819	0.000
COV6\$3	-0.425	0.210	-2.029	0.042
COV6\$4	0.916	0.208	4.397	0.000
COV7\$1	-3.106	0.259	-11.993	0.000
COV7\$2	-2.198	0.245	-8.968	0.000
COV7\$3	-0.671	0.241	-2.789	0.005
COV7\$4	1.207	0.241	5.006	0.000
COV8\$1	-1.277	0.166	-7.710	0.000
COV8\$2	0.194	0.162	1.199	0.230
COV8\$3	0.945	0.171	5.534	0.000
COV8\$4	1.280	0.177	7.224	0.000
COV9\$1	-3.116	0.223	-13.955	0.000
COV9\$2	-1.658	0.214	-7.765	0.000
COV9\$3	0.081	0.214	0.382	0.703
COV9\$4	1.544	0.212	7.272	0.000
COV10\$1	-4.305	0.285	-15.078	0.000
COV10\$2	-3.159	0.276	-11.434	0.000
COV10\$3	-1.558	0.263	-5.920	0.000
COV10\$4	0.149	0.257	0.581	0.561
COV11\$1	-0.354	0.741	-0.478	0.633
COV11\$2	2.057	0.858	2.398	0.016

COV11\$3	3.568	1.060	3.365	0.001
COV11\$4	6.415	1.553	4.130	0.000
COV12\$1	-0.692	0.255	-2.708	0.007
COV12\$2	0.430	0.255	1.686	0.092
COV12\$3	1.211	0.258	4.690	0.000
COV12\$4	2.249	0.263	8.561	0.000
ENV1\$1	-2.123	0.242	-8.781	0.000
ENV1\$2	-1.182	0.228	-5.173	0.000
ENV1\$3	0.340	0.224	1.515	0.130
ENV1\$4	2.492	0.239	10.431	0.000
ENV2\$1	-2.508	0.214	-11.729	0.000
ENV2\$2	-1.359	0.206	-6.594	0.000
ENV2\$3	-0.149	0.203	-0.737	0.461
ENV2\$4	1.295	0.205	6.330	0.000
ENV3\$1	-2.054	0.203	-10.099	0.000
ENV3\$2	-1.182	0.199	-5.923	0.000
ENV3\$3	-0.216	0.198	-1.093	0.274
ENV3\$4	1.024	0.199	5.156	0.000
ONL1\$1	-2.684	0.146	-18.363	0.000
ONL1\$2	-2.164	0.143	-15.102	0.000
ONL1\$3	-1.478	0.143	-10.342	0.000
ONL1\$4	-0.406	0.141	-2.886	0.004
ONL2\$1	-1.670	0.142	-11.743	0.000
ONL2\$2	-1.255	0.140	-8.951	0.000
ONL2\$3	-0.002	0.138	-0.012	0.990
ONL2\$4	0.642	0.138	4.656	0.000
ONL3\$1	-3.070	0.203	-15.096	0.000
ONL3\$2	-2.238	0.196	-11.428	0.000
ONL3\$3	-1.189	0.188	-6.324	0.000
ONL3\$4	0.444	0.185	2.395	0.017
ONL4\$1	-2.336	0.193	-12.115	0.000
ONL4\$2	-1.383	0.190	-7.295	0.000
ONL4\$3	-0.757	0.188	-4.036	0.000
ONL4\$4	0.656	0.186	3.528	0.000
ONL5\$1	-3.127	0.207	-15.084	0.000
ONL5\$2	-2.123	0.198	-10.732	0.000
ONL5\$3	-1.296	0.192	-6.738	0.000
ONL5\$4	0.094	0.188	0.499	0.618
PREBIKE\$1	1.025	0.279	3.674	0.000
PREBIKE\$2	1.752	0.281	6.245	0.000
PREBIKE\$3	2.602	0.280	9.276	0.000
PREBIKE\$4	3.936	0.300	13.141	0.000
BIKE\$1	14.005	34.760	0.403	0.687
CHANGE\$1	-3.092	0.219	-14.114	0.000
CHANGE\$2	-1.902	0.204	-9.310	0.000
CHANGE\$3	1.121	0.205	5.471	0.000
CHANGE\$4	1.992	0.212	9.397	0.000
Variances				
F1	2.563	0.196	13.077	0.000
F2	28.315	12.975	2.182	0.029
F3	0.704	0.078	9.006	0.000
F4	2.170	0.215	10.093	0.000
F5	0.131	0.022	5.809	0.000
F6	2.414	0.172	14.058	0.000
Residual Variances				
FREBIKE	0.565	0.013	42.113	0.000
INTENT	0.196	0.003	76.702	0.000

QUALITY OF NUMERICAL RESULTS

Condition Number for the Information Matrix

0.429E-08

(ratio of smallest to largest eigenvalue)

STANDARDIZED MODEL RESULTS

STDYX Standardization

		Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
F1	BY				
	COV1	0.848	0.009	93.194	0.000
	COV2	0.840	0.009	89.195	0.000
	COV3	0.395	0.022	17.804	0.000
	COV4	0.665	0.015	43.310	0.000
F2	BY				
	COV11	0.983	0.008	127.949	0.000
	COV12	0.855	0.008	102.156	0.000
	COV3	-0.532	0.021	-25.708	0.000
F3	BY				
	COV5	0.643	0.021	30.690	0.000
	COV6	0.781	0.010	74.455	0.000
	COV7	0.834	0.010	87.701	0.000
	COV8	0.522	0.019	26.875	0.000
	COV9	0.787	0.009	82.977	0.000
	COV10	0.855	0.009	95.756	0.000
F4	BY				
	ENV1	0.827	0.013	63.983	0.000
	ENV2	0.779	0.013	58.275	0.000
	ENV3	0.763	0.014	53.462	0.000
F5	BY				
	ONL1	0.340	0.026	13.136	0.000
	ONL2	0.355	0.025	14.281	0.000
	ONL3	0.731	0.017	43.810	0.000
	ONL4	0.725	0.017	42.382	0.000
	ONL5	0.738	0.018	41.661	0.000
F6	BY				
	PREBIKE	0.841	0.009	95.977	0.000
	BIKE	0.998	0.011	90.624	0.000
	FREBIKE	0.749	0.007	101.876	0.000
INTENT	ON				
	F1	0.106	0.037	2.832	0.005
	F2	-0.006	0.041	-0.145	0.885
	F3	-0.049	0.035	-1.389	0.165
	F4	0.015	0.024	0.628	0.530
	F5	-0.052	0.026	-2.017	0.044
	F6	0.180	0.014	13.048	0.000
CHANGE	ON				
	F6	-0.438	0.011	-38.165	0.000
INTENT	ON				
	AGE	-0.082	0.020	-4.127	0.000
	EDUC	0.028	0.025	1.096	0.273
	HHVEH	-0.033	0.023	-1.441	0.150
	INCOME	0.029	0.026	1.132	0.258

CHANGE	ON				
INTENT		-0.072	0.014	-5.003	0.000
AGE		0.024	0.026	0.939	0.348
EDUC		-0.020	0.032	-0.633	0.527
HHVEH		0.008	0.029	0.285	0.776
INCOME		-0.024	0.032	-0.753	0.451
F2	WITH				
F1		-0.689	0.015	-46.178	0.000
F3	WITH				
F1		0.685	0.014	50.443	0.000
F2		-0.593	0.016	-36.419	0.000
F4	WITH				
F1		0.365	0.021	17.378	0.000
F2		-0.468	0.020	-23.796	0.000
F3		0.300	0.021	14.114	0.000
F5	WITH				
F1		0.412	0.022	19.159	0.000
F2		-0.389	0.023	-17.214	0.000
F3		0.347	0.022	15.568	0.000
F4		0.291	0.023	12.416	0.000
F6	WITH				
F1		-0.023	0.025	-0.937	0.349
F2		0.050	0.026	1.939	0.053
F3		-0.013	0.024	-0.544	0.587
F4		0.240	0.024	10.075	0.000
F5		-0.060	0.026	-2.277	0.023
Intercepts					
FREBIKE		0.498	0.129	3.862	0.000
INTENT		6.977	0.126	55.596	0.000
Thresholds					
COV1\$1		-1.090	0.130	-8.405	0.000
COV1\$2		-0.438	0.129	-3.390	0.001
COV1\$3		-0.009	0.129	-0.070	0.944
COV1\$4		0.802	0.130	6.190	0.000
COV2\$1		-1.725	0.133	-12.929	0.000
COV2\$2		-1.233	0.133	-9.278	0.000
COV2\$3		-0.769	0.132	-5.816	0.000
COV2\$4		0.174	0.132	1.319	0.187
COV3\$1		-2.035	0.139	-14.642	0.000
COV3\$2		-1.580	0.138	-11.459	0.000
COV3\$3		-1.215	0.135	-8.968	0.000
COV3\$4		-0.426	0.135	-3.166	0.002
COV4\$1		-1.253	0.132	-9.491	0.000
COV4\$2		-0.620	0.131	-4.742	0.000
COV4\$3		0.030	0.130	0.230	0.818
COV4\$4		0.831	0.131	6.364	0.000
COV5\$1		-1.788	0.185	-9.642	0.000
COV5\$2		-1.155	0.184	-6.291	0.000
COV5\$3		-0.344	0.182	-1.893	0.058
COV5\$4		0.366	0.183	2.001	0.045
COV6\$1		-2.656	0.134	-19.763	0.000
COV6\$2		-1.466	0.133	-11.005	0.000
COV6\$3		-0.266	0.131	-2.032	0.042
COV6\$4		0.572	0.130	4.391	0.000
COV7\$1		-1.713	0.140	-12.260	0.000
COV7\$2		-1.212	0.133	-9.126	0.000
COV7\$3		-0.370	0.132	-2.797	0.005

COV7\$4	0.665	0.133	5.008	0.000
COV8\$1	-1.090	0.141	-7.716	0.000
COV8\$2	0.166	0.138	1.199	0.230
COV8\$3	0.806	0.146	5.535	0.000
COV8\$4	1.092	0.151	7.225	0.000
COV9\$1	-1.921	0.136	-14.166	0.000
COV9\$2	-1.023	0.131	-7.797	0.000
COV9\$3	0.050	0.132	0.382	0.703
COV9\$4	0.952	0.131	7.284	0.000
COV10\$1	-2.234	0.138	-16.234	0.000
COV10\$2	-1.639	0.136	-12.020	0.000
COV10\$3	-0.808	0.134	-6.042	0.000
COV10\$4	0.077	0.133	0.580	0.562
COV11\$1	-0.065	0.136	-0.481	0.631
COV11\$2	0.380	0.136	2.785	0.005
COV11\$3	0.659	0.138	4.786	0.000
COV11\$4	1.185	0.140	8.481	0.000
COV12\$1	-0.359	0.132	-2.710	0.007
COV12\$2	0.223	0.132	1.686	0.092
COV12\$3	0.628	0.134	4.700	0.000
COV12\$4	1.167	0.135	8.623	0.000
ENV1\$1	-1.193	0.133	-8.964	0.000
ENV1\$2	-0.664	0.128	-5.183	0.000
ENV1\$3	0.191	0.126	1.520	0.129
ENV1\$4	1.400	0.127	11.056	0.000
ENV2\$1	-1.573	0.130	-12.131	0.000
ENV2\$2	-0.852	0.128	-6.670	0.000
ENV2\$3	-0.094	0.127	-0.737	0.461
ENV2\$4	0.812	0.128	6.366	0.000
ENV3\$1	-1.328	0.130	-10.207	0.000
ENV3\$2	-0.764	0.129	-5.940	0.000
ENV3\$3	-0.140	0.128	-1.093	0.274
ENV3\$4	0.662	0.128	5.181	0.000
ONL1\$1	-2.525	0.136	-18.530	0.000
ONL1\$2	-2.035	0.134	-15.207	0.000
ONL1\$3	-1.390	0.134	-10.381	0.000
ONL1\$4	-0.382	0.132	-2.888	0.004
ONL2\$1	-1.561	0.133	-11.773	0.000
ONL2\$2	-1.173	0.131	-8.968	0.000
ONL2\$3	-0.002	0.129	-0.012	0.990
ONL2\$4	0.600	0.129	4.658	0.000
ONL3\$1	-2.095	0.133	-15.731	0.000
ONL3\$2	-1.528	0.130	-11.721	0.000
ONL3\$3	-0.812	0.127	-6.380	0.000
ONL3\$4	0.303	0.127	2.397	0.017
ONL4\$1	-1.609	0.130	-12.371	0.000
ONL4\$2	-0.953	0.130	-7.340	0.000
ONL4\$3	-0.522	0.129	-4.041	0.000
ONL4\$4	0.452	0.128	3.544	0.000
ONL5\$1	-2.109	0.132	-16.034	0.000
ONL5\$2	-1.432	0.130	-11.049	0.000
ONL5\$3	-0.874	0.128	-6.820	0.000
ONL5\$4	0.063	0.127	0.499	0.618
PREBIKE\$1	0.555	0.150	3.709	0.000
PREBIKE\$2	0.948	0.149	6.358	0.000
PREBIKE\$3	1.408	0.148	9.504	0.000
PREBIKE\$4	2.130	0.159	13.382	0.000
BIKE\$1	0.933	0.157	5.936	0.000
CHANGE\$1	-2.746	0.194	-14.163	0.000
CHANGE\$2	-1.689	0.181	-9.352	0.000
CHANGE\$3	0.995	0.183	5.436	0.000
CHANGE\$4	1.769	0.191	9.274	0.000

Variances

F1	1.000	0.000	999.000	999.000
F2	1.000	0.000	999.000	999.000
F3	1.000	0.000	999.000	999.000
F4	1.000	0.000	999.000	999.000
F5	1.000	0.000	999.000	999.000
F6	1.000	0.000	999.000	999.000

Residual Variances

FREBIKE	0.439	0.011	39.819	0.000
INTENT	0.950	0.007	142.592	0.000

R-SQUARE

Observed Variable	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value	Scale Factors
COV1	0.719	0.015	46.597	0.000	0.530
COV2	0.705	0.016	44.597	0.000	0.543
COV3	0.729	0.015	49.287	0.000	0.521
COV4	0.442	0.020	21.655	0.000	0.747
COV5	0.413	0.027	15.345	0.000	0.766
COV6	0.610	0.016	37.227	0.000	0.624
COV7	0.696	0.016	43.851	0.000	0.551
COV8	0.272	0.020	13.438	0.000	0.853
COV9	0.620	0.015	41.488	0.000	0.617
COV10	0.731	0.015	47.878	0.000	0.519
COV11	0.966	0.015	63.974	0.000	0.185
COV12	0.730	0.014	51.078	0.000	0.519
ENV1	0.685	0.021	31.992	0.000	0.562
ENV2	0.607	0.021	29.138	0.000	0.627
ENV3	0.582	0.022	26.731	0.000	0.647
ONL1	0.116	0.018	6.568	0.000	0.940
ONL2	0.126	0.018	7.141	0.000	0.935
ONL3	0.534	0.024	21.905	0.000	0.683
ONL4	0.525	0.025	21.191	0.000	0.689
ONL5	0.545	0.026	20.830	0.000	0.675
PREBIKE	0.707	0.015	47.989	0.000	0.541
BIKE	0.996	0.022	45.312	0.000	0.067
FREBIKE	0.561	0.011	50.938	0.000	
INTENT	0.050	0.007	7.488	0.000	
CHANGE	0.211	0.011	19.861	0.000	0.889

MODEL MODIFICATION INDICES

NOTE: Modification indices for direct effects of observed dependent variables regressed on covariates and residual covariances among observed dependent variables may not be included. To include these, request MODINDICES (ALL).

Minimum M.I. value for printing the modification index 10.000

M.I. E.P.C. Std E.P.C. StdYX E.P.C.

BY Statements

F1	BY COV5	13.532	0.114	0.183	0.140
F1	BY COV6	12.190	0.103	0.165	0.103
F1	BY COV7	12.538	-0.123	-0.197	-0.108
F1	BY COV9	21.037	-0.137	-0.220	-0.136
F1	BY ENV1	18.357	-0.093	-0.149	-0.084
F1	BY ENV2	140.671	-0.223	-0.356	-0.224
F1	BY ENV3	236.474	0.260	0.416	0.269
F1	BY ONL3	12.873	-0.068	-0.108	-0.074

F1	BY ONL5	16.610	0.077	0.124	0.083
F2	BY COV1	29.915	0.093	0.492	0.261
F2	BY COV2	10.897	0.053	0.283	0.154
F2	BY COV4	82.861	-0.088	-0.471	-0.352
F2	BY COV7	17.618	0.037	0.195	0.108
F2	BY COV9	14.931	0.029	0.154	0.095
F2	BY COV10	15.699	-0.037	-0.195	-0.101
F2	BY COV11	999.000	0.000	0.000	0.000
F2	BY ENV1	16.882	0.030	0.162	0.091
F2	BY ENV2	138.616	0.075	0.400	0.251
F2	BY ENV3	226.581	-0.086	-0.457	-0.296
F2	BY ONL3	11.696	0.020	0.106	0.072
F2	BY ONL5	21.121	-0.027	-0.143	-0.096
F3	BY COV2	11.220	-0.269	-0.226	-0.123
F3	BY COV3	11.008	0.228	0.191	0.100
F3	BY ENV1	18.932	-0.165	-0.138	-0.078
F3	BY ENV2	145.655	-0.396	-0.332	-0.208
F3	BY ENV3	248.259	0.468	0.392	0.254
F3	BY ONL3	18.067	-0.139	-0.116	-0.079
F3	BY ONL5	21.704	0.153	0.128	0.086
F4	BY COV1	23.459	-0.150	-0.220	-0.117
F4	BY COV4	54.309	0.140	0.207	0.154
F4	BY COV7	26.554	-0.125	-0.185	-0.102
F5	BY COV1	10.973	-0.461	-0.166	-0.088
F5	BY COV2	25.620	-0.690	-0.249	-0.135
F5	BY COV3	27.408	0.664	0.240	0.125
F5	BY COV4	38.733	0.538	0.194	0.145
F5	BY ENV2	63.799	-0.759	-0.274	-0.172
F5	BY ENV3	77.090	0.778	0.281	0.182
F6	BY COV8	19.077	-0.062	-0.097	-0.082
F6	BY ENV2	66.905	0.167	0.259	0.162
F6	BY ENV3	72.131	-0.168	-0.260	-0.168

ON/BY Statements

F1	ON F2	/			
F2	BY F1		999.000	0.000	0.000
F2	ON F2	/			
F2	BY F2		999.000	0.000	0.000

ON Statements

F4	ON INTENT	34.922	3.544	2.406	1.094
F4	ON CHANGE	11.275	0.115	0.078	0.088
F5	ON INTENT	33.584	0.859	2.376	1.080
F6	ON INTENT	152.007	8.147	5.244	2.385
F6	ON CHANGE	55.340	-1.041	-0.670	-0.755
F1	ON AGE	14.827	0.007	0.004	0.068
F1	ON HHVEH	17.530	-0.136	-0.085	-0.078
F2	ON HHVEH	46.453	0.783	0.147	0.135
F4	ON EDUC	37.325	0.172	0.117	0.116
F4	ON HHVEH	44.624	-0.206	-0.140	-0.128
F5	ON AGE	48.149	-0.003	-0.008	-0.122
F5	ON EDUC	14.414	-0.027	-0.075	-0.075
F6	ON AGE	98.368	-0.018	-0.012	-0.181
F6	ON EDUC	21.841	0.151	0.097	0.097
F6	ON INCOME	78.868	0.120	0.077	0.191

WITH Statements

COV2	WITH COV1	197.765	1.119	1.119	1.119
COV3	WITH COV1	36.633	-0.501	-0.501	-0.501
COV3	WITH COV2	20.271	-0.357	-0.357	-0.357
COV4	WITH COV1	54.363	-0.419	-0.419	-0.419

COV4	WITH COV2	61.682	-0.464	-0.464	-0.464
COV4	WITH COV3	44.982	0.353	0.353	0.353
COV6	WITH COV5	19.672	0.224	0.224	0.224
COV8	WITH COV4	20.086	0.176	0.176	0.176
COV8	WITH COV6	54.191	0.294	0.294	0.294
COV8	WITH COV7	14.390	-0.219	-0.219	-0.219
COV9	WITH COV5	13.619	-0.223	-0.223	-0.223
COV9	WITH COV6	23.917	-0.240	-0.240	-0.240
COV9	WITH COV7	37.142	0.299	0.299	0.299
COV10	WITH COV3	11.228	0.253	0.253	0.253
COV10	WITH COV5	21.239	-0.350	-0.350	-0.350
COV10	WITH COV6	40.272	-0.407	-0.407	-0.407
COV10	WITH COV8	24.648	-0.322	-0.322	-0.322
COV10	WITH COV9	20.692	0.244	0.244	0.244
COV11	WITH COV3	13.498	0.896	0.896	0.896
COV12	WITH COV11	27.850	3.253	3.253	3.253
ENV2	WITH COV1	16.531	-0.301	-0.301	-0.301
ENV2	WITH COV7	29.796	-0.384	-0.384	-0.384
ENV2	WITH ENV1	146.877	0.880	0.880	0.880
ENV3	WITH COV3	13.209	0.246	0.246	0.246
ENV3	WITH COV4	22.592	0.220	0.220	0.220
ENV3	WITH COV6	21.550	0.256	0.256	0.256
ENV3	WITH COV8	12.353	0.165	0.165	0.165
ENV3	WITH COV9	18.265	0.244	0.244	0.244
ENV3	WITH COV10	35.622	0.416	0.416	0.416
ENV3	WITH ENV1	75.996	-0.651	-0.651	-0.651
ENV3	WITH ENV2	18.604	-0.266	-0.266	-0.266
ONL1	WITH ENV3	13.037	-0.149	-0.149	-0.149
ONL3	WITH COV8	11.352	-0.156	-0.156	-0.156
ONL3	WITH ONL2	18.818	0.167	0.167	0.167
ONL4	WITH COV2	10.049	-0.210	-0.210	-0.210
ONL4	WITH ONL2	25.498	-0.206	-0.206	-0.206
ONL4	WITH ONL3	24.524	0.255	0.255	0.255
ONL5	WITH COV8	12.309	0.154	0.154	0.154
ONL5	WITH ONL3	15.832	-0.224	-0.224	-0.224
PREBIKE	WITH ENV2	37.664	0.484	0.484	0.484
BIKE	WITH ENV3	10.852	-2.417	-2.417	-2.417
BIKE	WITH PREBIKE	349.049	18.163	18.163	18.163
FREBIKE	WITH ENV3	12.958	-0.136	-0.136	-0.181
FREBIKE	WITH PREBIKE	104.353	-0.665	-0.665	-0.885
FREBIKE	WITH BIKE	214.681	-8.901	-8.901	-11.841
CHANGE	WITH F4	14.329	0.130	0.088	0.088
CHANGE	WITH F6	18.436	-0.619	-0.399	-0.399

Variances/Residual Variances

COV11	999.000	0.000	0.000	0.000
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DIAGRAM INFORMATION

Use View Diagram under the Diagram menu in the Mplus Editor to view the diagram.
If running Mplus from the Mplus Diagrammer, the diagram opens automatically.

Diagram output

\\apporto.com\dfs\nthw\users\fys47_northwestern\desktop\data\factrorsixwave13.dgm

Beginning Time: 14:24:45

Ending Time: 14:24:53

Elapsed Time: 00:00:08

3463 Stoner Ave.
Los Angeles, CA 90066

Tel: (310) 391-9971
Fax: (310) 391-8971
Web: www.StatModel.com
Support: Support@StatModel.com

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