```
DATA:
   File is "../US_Other_All.csv";

VARIABLE:
   Names are
      Group
      AP1-AP3
      BP1-BP3
      CP1-CP3
      DP1-DP3
      EP1-EP3
      FP1-FP3
      GP1-GP3;
      Grouping is group (11=U5-6 12=U7-8 13=U9-10
                  14=U11-12 15=U13-14 16=U15-16
                  21=O5-6 22=O7-8 23=O9-10
                  24=O11-12 25=O13-14 26=O15-16);

   USEVARIABLES ARE
      Group
      AP1-AP3
      BP1-BP3
      CP1-CP3
      DP1-DP3
      EP1-EP3
      FP1-FP3
      GP1-GP3;

   USEOBSERVATIONS ARE Group < 27;

      Missing are all (-999);

  ANALYSIS:
    estimator = ML;
    Iterations = 10000;

MODEL:

   A BY AP1*(L1)
       AP2 (L2)
       AP3 (L3);
   B BY BP1*(L4)
       BP2 (L5)
       BP3 (L6);
   C BY CP1*(L7)
       CP2 (L8)
       CP3 (L9);
   D BY DP1*(L10)
       DP2 (L11)
       DP3 (L12);
   E BY EP1*(L13)
       EP2 (L14)
       EP3 (L15);
```

```
    F BYFP1*(L16)
        FP2 (L17)
        FP3 (L18);
    G BY GP1*(L19)
        GP2 (L20)
        GP3 (L21);

 MODEL CONSTRAINT:
    L1 = 3 - L2 - L3;
    L4 = 3 - L5 - L6;
    L7 = 3 - L8 - L9;
    L10 = 3 - L11 - L12;
    L13 = 3 - L14 - L15;
    L16 = 3 - L17 - L18;
    L19 = 3 - L20 - L21;

MODEL U5-6:


    [AP1] (T1);
    [AP2] (T2);
    [AP3] (T3);
    [BP1] (T4);
    [BP2] (T5);
    [BP3] (T6);
    [CP1] (T7);
    [CP2] (T8);
    [CP3] (T9);
    [DP1] (T10);
    [DP2] (T11);
    [DP3] (T12);
    [EP1] (T13);
    [EP2] (T14);
    [EP3] (T15);
    [FP1] (T16);
    [FP2] (T17);
    [FP3] (T18);
    [GP1] (T19);
    [GP2] (T20);
    [GP3] (T21);

    [A*];
    [B*];
    [C*];
    [D*];
    [E*];
    [F*];
    [G*];

      A*;
      B*;
      C*;
      D*;
```

```
    E*;
    F*;
    G*;
```

MODEL U7-8:

```
   [AP1] (T1);
   [AP2] (T2);
   [AP3] (T3);
   [BP1] (T4);
   [BP2] (T5);
   [BP3] (T6);
   [CP1] (T7);
   [CP2] (T8);
   [CP3] (T9);
   [DP1] (T10);
   [DP2] (T11);
   [DP3] (T12);
   [EP1] (T13);
   [EP2] (T14);
   [EP3] (T15);
   [FP1] (T16);
   [FP2] (T17);
   [FP3] (T18);
   [GP1] (T19);
   [GP2] (T20);
   [GP3] (T21);

   [A*];
   [B*];
   [C*];
   [D*];
   [E*];
   [F*];
   [G*];

    A*;
    B*;
    C*;
    D*;
    E*;
    F*;
    G*;
```

MODEL U9-10:

```
   [AP1] (T1);
   [AP2] (T2);
   [AP3] (T3);
   [BP1] (T4);
   [BP2] (T5);
   [BP3] (T6);
```

```
[CP1] (T7);
[CP2] (T8);
[CP3] (T9);
[DP1] (T10);
[DP2] (T11);
[DP3] (T12);
[EP1] (T13);
[EP2] (T14);
[EP3] (T15);
[FP1] (T16);
[FP2] (T17);
[FP3] (T18);
[GP1] (T19);
[GP2] (T20);
[GP3] (T21);

[A*];
[B*];
[C*];
[D*];
[E*];
[F*];
[G*];

A*;
B*;
C*;
D*;
E*;
F*;
G*;
```

MODEL U11-12:

```
[AP1] (T1);
[AP2] (T2);
[AP3] (T3);
[BP1] (T4);
[BP2] (T5);
[BP3] (T6);
[CP1] (T7);
[CP2] (T8);
[CP3] (T9);
[DP1] (T10);
[DP2] (T11);
[DP3] (T12);
[EP1] (T13);
[EP2] (T14);
[EP3] (T15);
[FP1] (T16);
[FP2] (T17);
[FP3] (T18);
[GP1] (T19);
```

```
[GP2] (T20);
[GP3] (T21);

[A*];
[B*];
[C*];
[D*];
[E*];
[F*];
[G*];

A*;
B*;
C*;
D*;
E*;
F*;
G*;
```

MODEL U13-14:

```
[AP1] (T1);
[AP2] (T2);
[AP3] (T3);
[BP1] (T4);
[BP2] (T5);
[BP3] (T6);
[CP1] (T7);
[CP2] (T8);
[CP3] (T9);
[DP1] (T10);
[DP2] (T11);
[DP3] (T12);
[EP1] (T13);
[EP2] (T14);
[EP3] (T15);
[FP1] (T16);
[FP2] (T17);
[FP3] (T18);
[GP1] (T19);
[GP2] (T20);
[GP3] (T21);

[A*];
[B*];
[C*];
[D*];
[E*];
[F*];
[G*];

A*;
B*;
```

```
C*;
D*;
E*;
F*;
G*;

MODEL U15-16:

[AP1] (T1);
[AP2] (T2);
[AP3] (T3);
[BP1] (T4);
[BP2] (T5);
[BP3] (T6);
[CP1] (T7);
[CP2] (T8);
[CP3] (T9);
[DP1] (T10);
[DP2] (T11);
[DP3] (T12);
[EP1] (T13);
[EP2] (T14);
[EP3] (T15);
[FP1] (T16);
[FP2] (T17);
[FP3] (T18);
[GP1] (T19);
[GP2] (T20);
[GP3] (T21);

[A*];
[B*];
[C*];
[D*];
[E*];
[F*];
[G*];

A*;
B*;
C*;
D*;
E*;
F*;
G*;


MODEL O5-6:

[AP1] (T1);
[AP2] (T2);
[AP3] (T3);
[BP1] (T4);
```

[BP2] (T5);
[BP3] (T6);
[CP1] (T7);
[CP2] (T8);
[CP3] (T9);
[DP1] (T10);
[DP2] (T11);
[DP3] (T12);
[EP1] (T13);
[EP2] (T14);
[EP3] (T15);
[FP1] (T16);
[FP2] (T17);
[FP3] (T18);
[GP1] (T19);
[GP2] (T20);
[GP3] (T21);

[A*];
[B*];
[C*];
[D*];
[E*];
[F*];
[G*];

MODEL O7-8:

[AP1] (T1);
[AP2] (T2);
[AP3] (T3);
[BP1] (T4);
[BP2] (T5);
[BP3] (T6);
[CP1] (T7);
[CP2] (T8);
[CP3] (T9);
[DP1] (T10);
[DP2] (T11);
[DP3] (T12);
[EP1] (T13);
[EP2] (T14);
[EP3] (T15);
[FP1] (T16);
[FP2] (T17);
[FP3] (T18);
[GP1] (T19);
[GP2] (T20);
[GP3] (T21);

[A*];
[B*];

[C*];
[D*];
[E*];
[F*];
[G*];

MODEL O9-10:

[AP1] (T1);
[AP2] (T2);
[AP3] (T3);
[BP1] (T4);
[BP2] (T5);
[BP3] (T6);
[CP1] (T7);
[CP2] (T8);
[CP3] (T9);
[DP1] (T10);
[DP2] (T11);
[DP3] (T12);
[EP1] (T13);
[EP2] (T14);
[EP3] (T15);
[FP1] (T16);
[FP2] (T17);
[FP3] (T18);
[GP1] (T19);
[GP2] (T20);
[GP3] (T21);

[A*];
[B*];
[C*];
[D*];
[E*];
[F*];
[G*];

MODEL O11-12:

[AP1] (T1);
[AP2] (T2);
[AP3] (T3);
[BP1] (T4);
[BP2] (T5);
[BP3] (T6);
[CP1] (T7);
[CP2] (T8);
[CP3] (T9);
[DP1] (T10);
[DP2] (T11);
[DP3] (T12);

[EP1] (T13);
[EP2] (T14);
[EP3] (T15);
[FP1] (T16);
[FP2] (T17);
[FP3] (T18);
[GP1] (T19);
[GP2] (T20);
[GP3] (T21);

[A*];
[B*];
[C*];
[D*];
[E*];
[F*];
[G*];

MODEL O13-14:

[AP1] (T1);
[AP2] (T2);
[AP3] (T3);
[BP1] (T4);
[BP2] (T5);
[BP3] (T6);
[CP1] (T7);
[CP2] (T8);
[CP3] (T9);
[DP1] (T10);
[DP2] (T11);
[DP3] (T12);
[EP1] (T13);
[EP2] (T14);
[EP3] (T15);
[FP1] (T16);
[FP2] (T17);
[FP3] (T18);
[GP1] (T19);
[GP2] (T20);
[GP3] (T21);

[A*];
[B*];
[C*];
[D*];
[E*];
[F*];
[G*];

MODEL O15-16:

```
    [AP1] (T1);
    [AP2] (T2);
    [AP3] (T3);
    [BP1] (T4);
    [BP2] (T5);
    [BP3] (T6);
    [CP1] (T7);
    [CP2] (T8);
    [CP3] (T9);
    [DP1] (T10);
    [DP2] (T11);
    [DP3] (T12);
    [EP1] (T13);
    [EP2] (T14);
    [EP3] (T15);
    [FP1] (T16);
    [FP2] (T17);
    [FP3] (T18);
    [GP1] (T19);
    [GP2] (T20);
    [GP3] (T21);

    [A*];
    [B*];
    [C*];
    [D*];
    [E*];
    [F*];
    [G*];

     MODEL CONSTRAINT:

      T1 = 0 - T2 - T3;
      T4 = 0 - T5 - T6;
      T7 = 0 - T8 - T9;
      T10 = 0 - T11 - T12;
      T13 = 0 - T14 - T15;
      T16 = 0 - T17 - T18;
      T19 = 0 - T20 - T21;


OUTPUT:
    STDYX;
    SAMPSTAT;
```