

Documentation for the KSCPH (peer academic push) variables

These commands (and the KSCPH variables) were written in the first seven years of data collection (1987-1994) of the LSAY when data for the two cohorts was maintained separately. The variables created were based on a series of factor analyses run using Liscomp with reliabilities checked in SPSS. Different missing value conventions were used at that time, and the variables created (e.g., KSCPH1) reflected the year of the study, not the grade of the student. The old variables were renamed in 2007-2008 and new naming conventions and missing value conventions were developed to allow for a single merged file for both cohorts. The KSCPH variables were not recreated in 2007-2008 using the following commands, but were simply renamed.

COHORT 2 KSCPH:

In the following commands for Cohort 2 the KSCPH variables created by the program are now named as follows:

```
KSCPH1 = KSCPH7  
KSCPH2 = KSCPH8  
KSCPH3 = KSCPH9  
KSCPH4 = KSCPH10  
KSCPH5 = KSCPH11  
KSCPH6 = KSCPH12
```

The original Cohort 2 variables listed in the program were renamed in 2007/2008 when a single merged data file was created. The new variable names that can be found in the public release files are:

```
AA20B = AB20B  
AA20D = AB20D  
AA20H = AB20H  
AA20K = AB20K  
CA30J = CB30J  
CA30K = CB30K  
CA30N = CB30N  
CA30M = CB30M  
EA10J = EB10J  
EA10K = EB10K  
EA10N = EB10N  
EA10M = EB10M  
GB10J = GB10J  
GB10K = GB10K  
GB10N = GB10N  
GB10M = GB10M  
IB10J = IA10J  
IB10K = IA10K  
IB10N = IA10N
```

```

IB10M = IA10M
KB37J = KA37J
KB37K = KA37K
KB37N = KA37N
KB37M = KA37M

DATA KSCPH;
  SET IN1.COH2MRG(KEEP=LSAYID AA20B AA20D AA20H AA20K
    CA30J CA30K CA30N CA30M
    EA10J EA10K EA10N EA10M
    GB10J GB10K GB10N GB10M
    IB10J IB10K IB10N IB10M);
  ARRAY R1 AA20B AA20D AA20H AA20K;
  DO OVER R1;IF R1>5 THEN R1=.;END;
  *****;
  * THE FOLLOWING COMMANDS CREATE THE VARIABLE KSCPH1 *;
  * (PEER SCIENCE PUSH YEAR 1) *;
  *****;
  IF NMISS(AA20B,AA20D,AA20H,AA20K) LE 2 THEN DO;
    KSCPH1=(MEAN(AA20B,AA20D,AA20H,AA20K)*4);
  END;

  ARRAY S1 CA30J CA30K CA30N CA30M;
  DO OVER S1;IF S1>5 THEN S1=.;END;

  *****;
  * THE FOLLOWING COMMANDS CREATE THE VARIABLE KSCPH2 *;
  * (PEER SCIENCE PUSH YEAR 2). THE VARIABLES WERE *;
  * RECODED SO THAT THEY CONFORM WITH YEAR 1. RESPONSES*
  * OF NONE A FEW AND SOME (1 TO 3) WERE CODED AS 0 *;
  * AND RESPONSES OF MOST AND ALL (4 TO 5) WERE CODED AS*
  * 1. *;
  *****;

  DO OVER S1;
    IF 0<S1<4 THEN S1=0;
    IF 3<S1<6 THEN S1=1;
  END;
  IF NMISS(CA30J,CA30K,CA30N,CA30M) LE 2 THEN DO;
    KSCPH2=(MEAN(CA30J,CA30K,CA30N,CA30M)*4);
  END;

  *****;
  * *;
  * THE FOLLOWING COMMANDS CREATE THE VARIABLE KSCPH3 *;
  * (PEER SCIENCE PUSH YEAR 3). THE VARIABLES WERE *;
  * RECODED SO THAT THEY CONFORM WITH YEAR 1. RESPONSES*
  * OF NONE A FEW AND SOME (1 TO 3) WERE CODED AS 0 *;
  * AND RESPONSES OF MOST AND ALL (4 TO 5) WERE CODED AS*
  * 1. *;
  *****;

```

```

ARRAY T1 EA10J EA10K EA10N EA10M;
DO OVER T1;IF T1>5 THEN T1=.;END;
DO OVER T1;
  IF 0<T1<4 THEN T1=0;
  IF 3<T1<6 THEN T1=1;
END;
IF NMISS(EA10J,EA10K,EA10N,EA10M) LE 2 THEN DO;
  KSCPH3=(MEAN(EA10J,EA10K,EA10N,EA10M)*4);
END;

*****;
*   THE FOLLOWING COMMANDS CREATE THE VARIABLE KSCPH4   *;
*   (PEER SCIENCE PUSH YEAR 4). THE VARIABLES WERE     *;
*   RECODED SO THAT THEY CONFORM WITH YEAR 1. RESPONSES*;
*   OF NONE A FEW AND SOME (1 TO 3) WERE CODED AS 0    *;
*   AND RESPONSES OF MOST AND ALL (4 TO 5) WERE CODED AS*;
*   1.                                                  *;
*****;
ARRAY U1 GB10J GB10K GB10N GB10M;
DO OVER U1;IF U1>5 THEN U1=.;END;
DO OVER U1;
  IF 0<U1<4 THEN U1=0;
  IF 3<U1<6 THEN U1=1;
END;
IF NMISS(GB10J,GB10K,GB10N,GB10M) LE 2 THEN DO;
  KSCPH4=(MEAN(GB10J,GB10K,GB10N,GB10M)*4);
END;

*****;
*   THE FOLLOWING COMMANDS CREATE THE VARIABLE KSCPH4   *;
*   (PEER SCIENCE PUSH YEAR 5). THE VARIABLES WERE     *;
*   RECODED SO THAT THEY CONFORM WITH YEAR 1. RESPONSES*;
*   OF NONE A FEW AND SOME (1 TO 3) WERE CODED AS 0    *;
*   AND RESPONSES OF MOST AND ALL (4 TO 5) WERE CODED AS*;
*   1.                                                  *;
*****;
ARRAY V1 IB10J IB10K IB10N IB10M;
DO OVER V1;IF V1>5 THEN V1=.;END;
DO OVER V1;
  IF 0<V1<4 THEN V1=0;
  IF 3<V1<6 THEN V1=1;
END;
IF NMISS(IB10J,IB10K,IB10N,IB10M) LE 2 THEN DO;
  KSCPH5=(MEAN(IB10J,IB10K,IB10N,IB10M)*4);
END;

KSCPH1=ROUND(KSCPH1,1);
KSCPH2=ROUND(KSCPH2,1);
KSCPH3=ROUND(KSCPH3,1);
KSCPH4=ROUND(KSCPH4,1);
KSCPH5=ROUND(KSCPH5,1);

```

```

KEEP LSAYID KSCPH1 KSCPH2 KSCPH3 KSCPH4 KSCPH5;

*****;
*   THE FOLLOWING COMMANDS CREATE THE VARIABLE KSCPH6   *;
*   (PEER SCIENCE PUSH YEAR 6). THE VARIABLES WERE     *;
*   RECODED SO THAT THEY CONFORM WITH YEAR 1. RESPONSES*
*   OF NONE A FEW AND SOME (1 TO 3) WERE CODED AS 0    *;
*   AND RESPONSES OF MOST AND ALL (4 TO 5) WERE CODED AS*;
*   1.                                           *;
*****;
ARRAY K1 KB37J KB37K KB37N KB37M;
DO OVER K1;IF K1>5 THEN K1=.;END;
DO OVER K1;
    IF 0<K1<4 THEN K1=0;
    IF 3<K1<6 THEN K1=1;
END;
IF NMISS(KB37J,KB37K,KB37N,KB37M) LE 2 THEN DO;
    KSCPH6=(MEAN(KB37J,KB37K,KB37N,KB37M)*4);
END;

PROC CORR NOMISS ALPHA; WHERE LSAYID<400000;
    VAR KB37J KB37K KB37N KB37M;
TITLE 'RELIABILITY KSCPH6';

DATA KSCPH;
    TITLE;
    SET KSCPH6;
KEEP LSAYID KSCPH6;

```

COHORT 1 KSCPH:

In the following commands for Cohort 1 the KSCPH variables created by the program are now named as follows:

KSCPH1 = KSCPH10
KSCPH2 = KSCPH11
KSCPH3 = KSCPH12

The original Cohort 1 variables listed in the program were renamed in 2007/2008 when a single merged data file was created. The new variable names that can be found in the public release files are:

AA20B = GC10J
AA20D = GC10K
AA20H = GC10N
AA20K = GC10M
CA30J = IA10J
CA30K = IA10K
CA30N = IA10N
CA30M = IA10M
EA10J = KA37J
EA10K = KA37K
EA10N = KA37N
EA10M = KA37M

```
*****;  
*      THE FOLLOWING COMMANDS CREATE THE VARIABLE KSCPH1      *;  
*      (PEER SCIENCE PUSH YEAR 1)                             *;  
*****;  
ARRAY K1      AA20B AA20D AA20H AA20K;  
DO OVER K1;IF K1>5 THEN K1=.;END;  
IF NMISS(AA20B, AA20D, AA20H, AA20K) LE 2 THEN DO;  
    KSCPH1= (MEAN(AA20B, AA20D, AA20H, AA20K)) * 4;  
END;  
  
ARRAY L1      CA30J CA30K CA30N CA30M;  
DO OVER L1;IF L1>5 THEN L1=.;END;  
*****;  
*      THE FOLLOWING COMMANDS CREATE THE VARIABLE KSCPH2      *;  
*      (PEER SCIENCE PUSH YEAR 2).  THE VARIABLES WERE       *;  
*      RECODED SO THAT THEY CONFORM WITH YEAR 1.  RESPONSES *;  
*      OF NONE, A FEW, AND SOME (1 TO 3) WERE CODED AS 0,    *;  
*      AND RESPONSES OF MOST AND ALL (4 TO 5) WERE CODED AS *;  
*      1.                                                       *;  
*****;  
  
ARRAY M1 CA30J CA30K CA30N CA30M;  
  
DO OVER M1;  
    IF 0<M1<4 THEN M1=0;  
    IF 3<M1<6 THEN M1=1;  
END;
```

```

IF NMISS(CA30J, CA30K, CA30N, CA30M) LE 2 THEN DO;
  KSCPH2= (MEAN(CA30J, CA30K, CA30N, CA30M)) * 4;
END;

*****;
*
*
*   THE FOLLOWING COMMANDS CREATE THE VARIABLE KSCPH3
*   (PEER SCIENCE PUSH YEAR 3).  THE VARIABLES WERE
*   RECODED SO THAT THEY CONFORM WITH YEAR 1.  RESPONSES
*   OF NONE, A FEW, AND SOME (1 TO 3) WERE CODED AS 0,
*   AND RESPONSES OF MOST AND ALL (4 TO 5) WERE CODED AS
*   1.
*****;
ARRAY N1      EA10J EA10K EA10N EA10M;
DO OVER N1;IF N1>5 THEN N1=.;END;

ARRAY O1      EA10J EA10K EA10N EA10M;

DO OVER O1;
  IF 0<O1<4 THEN O1=0;
  IF 3<O1<6 THEN O1=1;
END;
IF NMISS(EA10J, EA10K, EA10N, EA10M) LE 2 THEN DO;
  KSCPH3= (MEAN(EA10J, EA10K, EA10N, EA10M)) * 4;
END;

LABEL
  KSCPH1="PEER SCIENCE PUSH YEAR 1"
  KSCPH2="PEER SCIENCE PUSH YEAR 2"
  KSCPH3="PEER SCIENCE PUSH YEAR 3";
PROC CORR NOCORR NOSIMPLE NOMISS ALPHA; WHERE LSAYID<400000;
  VAR AA20B AA20D AA20H AA20K;
  TITLE 'RELIABILITY OF KSCPH1 ITEMS';
PROC CORR NOCORR NOSIMPLE NOMISS ALPHA; WHERE LSAYID<400000;
  VAR CA30J CA30K CA30N CA30M;
  TITLE 'RELIABILITY OF KSCPH2 ITEMS';
PROC CORR NOCORR NOSIMPLE NOMISS ALPHA; WHERE LSAYID<400000;
  VAR EA10J EA10K EA10N EA10M;
  TITLE 'RELIABILITY OF KSCPH3 ITEMS';
DATA KSCPH;
  TITLE;
  SET KSCPHCR;
KEEP LSAYID KSCPH1 KSCPH2 KSCPH3;
KSCPH1=ROUND(KSCPH1,1);
KSCPH2=ROUND(KSCPH2,1);
KSCPH3=ROUND(KSCPH3,1);

```