Documentation for the PSCPH variables

These commands (and the PSCPH 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., PSCPH1) 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 PSCPH variables were not recreated in 2007-2008, but were simply renamed.

COHORT 2 PSCPH:

In the following commands for Cohort 2 the PSCPH variables created by the program are now named as follows:
PSCPH1 = PSCPH7
PSCPH3 = PSCPH9
PSCPH4 = PSCPH10
PSCPH5 = PSCPH11
PSCPH6 = PSCPH12

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 listed below (variables not listed below have retained their original name listed in the program):
AA19F = AB19F
AA19N = AB19N
AA19R = AB19R
FA2L = FB2L
FA2P = FB2P
JB2L = JA2L
LB2L = LA2L
LB2P = LA2P


```
DATA PSCPH;
 SET  IN1.COH2MRG
  (KEEP=LSAYID AA19F AA19N AA19R
 FA2L FA2P
 HB2L HB2P
 JB2L JB2P);

ARRAY B18 AA19F AA19N AA19R;
```

```
DO OVER B18;IF B18> 5 THEN B18=.;END;
****************************************************************;
*    THE FOLLOWING COMMANDS CREATE THE VARIABLE PSCPH1   *;
*    (PARENT SCIENCE PUSH YEAR 1)                *;
****************************************************************;
IF N(AA19F,AA19N,AA19R) GE 2 THEN DO;
 PSCPH1=(MEAN(AA19F,AA19N,AA19R)*3);
END;

******************************************************************;
*    PSCPH2 (PARENT SCIENCE PUSH YEAR 2) CANNOT BE CREATED AS *;
*    THERE ARE NOT COMPARABLE ITEMS TO THOSE FROM YEAR 1.   *;
*    ONLY ONE OF THE ITEMS EXISTS IN YEAR 2.           *;
******************************************************************;

ARRAY B19 FA2L FA2P;
DO OVER B19;IF B19>5 THEN B19=.;END;
******************************************************************;
*    THE FOLLOWING COMMANDS CREATE THE VARIABLE PSCPH3   *;
*    (PARENT SCIENCE PUSH YEAR 3)                *;
*    PSCPH3 CONTAINS ONLY 2 VARIABLES (COMPARED TO 3     *;
*    VARIABLES IN PSCPH1) AS THERE IS NO VARIABLE        *;
*    COMPARABLE TO AA19F IN YEAR 3.              *;
******************************************************************;
IF N(FA2L,FA2P)=2 THEN DO;
 PSCPH3=(MEAN(FA2L,FA2P)*2);
END;
ARRAY B20 HB2L HB2P;
DO OVER B20;IF B20>5 THEN B20=.;END;
******************************************************************;
*    THE FOLLOWING COMMANDS CREATE THE VARIABLE PSCPH4    *;
*    (PARENT SCIENCE PUSH YEAR 4)                *;
*    PSCPH4 CONTAINS ONLY 2 VARIABLES (COMPARED TO 3     *;
*    VARIABLES IN PSCPH1) AS THERE IS NO VARIABLE        *;
*    COMPARABLE TO AA19F IN YEAR 4.              *;
******************************************************************;
IF N(HB2L,HB2P)=2 THEN DO;
 PSCPH4=(MEAN(HB2L,HB2P)*2);
END;
ARRAY B21 JB2L JB2P;
DO OVER B21;IF B21>5 THEN B21=.;END;
******************************************************************;
*    THE FOLLOWING COMMANDS CREATE THE VARIABLE PSCPH5   *;
*    (PARENT SCIENCE PUSH YEAR 5)                *;
*    PSCPH5 CONTAINS ONLY 2 VARIABLES (COMPARED TO 3     *;
*    VARIABLES IN PSCPH1) AS THERE IS NO VARIABLE        *;
*    COMPARABLE TO AA19F IN YEAR 5.              *;
******************************************************************;
IF N(JB2L,JB2P)=2 THEN DO;
 PSCPH5=(MEAN(JB2L,JB2P)*2);
END;
```

```
PSCPH1=ROUND(PSCPH1,1);
PSCPH3=ROUND(PSCPH3,1);
PSCPH4=ROUND(PSCPH4,1);
PSCPH5=ROUND(PSCPH5,1);



KEEP LSAYID PSCPH1 PSCPH3 PSCPH4 PSCPH5;

DATA PSCPH6;
 SET  KLFILE;

ARRAY L1 LB2L LB2P;
DO OVER L1;IF L1>5 THEN L1=.;END;
************************************************************;
*    THE FOLLOWING COMMANDS CREATE THE VARIABLE PSCPH6   *;
*     (PARENT SCIENCE PUSH YEAR 6)               *;
************************************************************;
IF N(LB2L,LB2P)=2 THEN DO;
 PSCPH6=(MEAN(LB2L,LB2P)*2);
END;

PROC CORR NOMISS ALPHA; WHERE LSAYID<400000;
  VAR LB2L LB2P;
TITLE 'RELIABILITY PSCPH6';

DATA PSCPH;
 TITLE;
SET PSCPH6;
KEEP LSAYID PSCPH6;
```

COHORT 1 PSCPH:

In the following commands for Cohort 1 the PSCPH variables created by the program are now named as follows:
PSCPH1 = PSCPH10
PSCPH3 = PSCPH12

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:
AA19F = GC19F
AA19N = GC19N
AA19R = GC19R
FA2L = LA2L
FA2P = LA2P

```
************************************************************;
*       THE FOLLOWING COMMANDS CREATE THE VARIABLE PSCPH1     *;
*       (PARENT SCIENCE PUSH YEAR 1)                         *;
```

```
    **********************************************************;
ARRAY I2 AA19F AA19N AA19R;
DO OVER I2;IF I2>5 THEN I2=.;END;
IF N(AA19F,AA19N,AA19R) GE 2 THEN DO;
  PSCPH1= (MEAN(AA19F,AA19N,AA19R)*3);
END;


    **************************************************************;
*       PSCPH2 (PARENT SCIENCE PUSH YEAR 2) CANNOT BE CREATED AS *;
*       THERE ARE NOT COMPARABLE ITEMS TO THOSE FROM YEAR 1.     *;
*       ONLY ONE OF THE ITEMS EXISTS IN YEAR 2.                  *;
*                                                                *;
    **************************************************************;


    **************************************************************;
*        The following commands create the variable PSCPH3      *;
*        (Parent Science Push Year 3)                            *;
*                                                                *;
*        PSCPH3 contains only 2 variables (compared to 3         *;
*        variables in PSCPH1) as there is no variable            *;
*        comparable to AA19F in Year 3.                          *;
    **************************************************************;
ARRAY J2 FA2L FA2P;
DO OVER J2;IF J2>5 THEN J2=.;END;
IF N(FA2L,FA2P)=2 THEN DO;
   PSCPH3= (MEAN(FA2L,FA2P)*2);
END;
LABEL
 PSCPH1="PARENT SCIENCE PUSH YEAR 1"
 PSCPH3="PARENT SCIENCE PUSH YEAR 3";

PROC CORR NOCORR NOSIMPLE NOMISS ALPHA; WHERE LSAYID<400000;
  VAR AA19F AA19N AA19R;
  TITLE 'RELIABILITY OF PSCPH1 ITEMS';

PROC CORR NOCORR NOSIMPLE NOMISS ALPHA; WHERE LSAYID<400000;
   VAR FA2L FA2P;
  TITLE 'RELIABILITY OF PSCPH3 ITEMS';

DATA PSCHP;
  TITLE;
 SET PSCHPCR;
KEEP LSAYID PSCPH1 PSCPH3;
PSCPH1=ROUND(PSCPH1,1);
PSCPH3=ROUND(PSCPH3,1);
```