1
1

TABLE OF CONTENTS FOR FILE TA000   75- 8-27

IDENTIFICATION

| VAR | SHORT | LONG NAME | PAGE |
| NO. | NAME | | NO. |

IDENTIFICATION

 1 CNTRY   COUNTRY NUMBER/   1
 2 POP   POPULATION /
 3 SCH   SCHOOL NUMBER/   2
 4 TCH   TEACHER NUMBER/

VIEWS ON THE TEACHING OF SCIENCE-VIEWS ON
PRACTICAL WORK (TNSV)

 5 TNSV01   OPEN-ENDED INVESTIGATIONS DESIRABLE /
 6 TNSV02   PRACTICAL EXPERIENCE NOT ESSENTIAL /   3
 7 TNSV03   BEST NOT TAKE TIME FOR PRACTICAL WORK /
 8 TNSV04   PRACTICAL EXPERIENCES LAST LONGEST /
 9 TNSV05   LECTURE MORE IMPORTANT THAN LAB PREP   /
10 TNSV06   INVESTIGATIONS TOO HARD TO PROVIDE /   4
11 TNSV07   INVESTIGATIONS ESSENTIAL/
12 TNSV08   TOP PRIORITY TO INVESTIGATIONS /
13 TNSV09   HALF-TIME ON PRACTICAL /   5
14 TNSV10   INDIVIDUAL INQUIRY OF LITTLE VALUE /
1

IEA . TA000 . IEA . TA000 . IEA . TA000 . IEA . TA000 . IEA
+   200

INTERNATIONAL ASSOCIATION FOR THE EVALUATION
+   300

OF EDUCATIONAL ACHIEVEMENT (IEA)
+   400

IEA SIX-SUBJECT SURVEY DATA BANK MANUAL TA000
+   500

+   600

SUBJECTS: STAGE 2 SCIENCE
+   700

FILE: DATA BANK TEACHER ATTITUDE
+   800

POPULATION: ONE, TWO, FOUR AND FIVE
+   900

COUNTRIES: ALL NINE
+   1000

VERSION: 75- 8-27

DATA BANK EDITORIAL AND PROGRAMMING TEAM: JOHN SCHWILLE,
+   1200
   SUSANNE MARSHALL, MATS CARLID, BIRGIT CEDHEIM, MIYOKO
+   1300
   FORSSELL, MARION MYHRMAN, MARIT PRESTEGAARD, FRANCES
+   1400
   WESTRA
+   1405

IEA . TA000 . IEA . TA000 . IEA . TA000 . IEA . TA000 . IEA
+   1500
1

+   1600

FOR A DESCRIPTION OF THE DATA BANK AND AN EXPLANATION OF THIS
+   1700
MANUAL, SEE

+   1800

JOHN SCHWILLE AND SUSANNE MARSHALL. THE IEA SIX-SUBJECT DATA
+   1900
BANK: A GENERAL INTRODUCTION (HEREAFTER CITED AS THE
+   2000
INTRODUCTORY MANUAL).
+   2100

... .
+   2200

FOR THE PRIMARY REPORTS ON THE DATA DESCRIBED IN THIS MANUAL,
+   2300
SEE
+   2400

GILBERT F. PEAKER. AN EMPIRICAL STUDY OF EDUCATION IN TWENTY-
+   2500
ONE COUNTRIES: A TECHNICAL REPORT. STOCKHOLM: ALMQVIST &
+   2600
WIKSELL, 1975 (HEREAFTER CITED AS THE PEAKER VOLUME).
+   2700

L.C. COMBER AND JOHN P. KEEVES. SCIENCE EDUCATION IN NINETEEN
+   2705
COUNTRIES. STOCKHOLM: ALMQVIST & WIKSELL, 1973 (HEREAFTER
+   2710
CITED AS COMBER AND KEEVES).
+   2715

... .
+   2800

THIS DATA BANK IS THE PRODUCT OF COLLABORATION AMONG IEA
+   2900
NATIONAL CENTERS, AUTHORS, BUREAU, EXECUTIVE DIRECTOR,
+   3000
SECRETARIAT AND DATA PROCESSING UNITS. THE DATA BANK TEAM,
+   3100
HAVING PERFORMED THE EDITORIAL TASK OF DRAWING TOGETHER THE
+   3200
MANY SOURCES OF DOCUMENTATION AND DATA, GRATEFULLY ACKNOWLEDGES
+   3300
THE PRIMARY ROLE PLAYED BY OTHER IEA WORKERS.
+   3400

... .
+   3500

QUESTIONS AND SUGGESTIONS CONCERNING THESE MANUALS AND THE
+   3600
SIX-SUBJECT DATA BANK SHOULD BE ADRESSED TO IEA, CARE OF THE
+   3700
INSTITUTE FOR THE STUDY OF INTERNATIONAL PROBLEMS IN EDUCATION,
+   3800
UNIVERSITY OF STOCKHOLM, FACK, S-104 05 STOCKHOLM 50, SWEDEN.
+   3900

... .
+   3903

              ACKNOWLEDGMENT OF ASSISTANCE
+   3905

ALL MANUSCRIPTS UTILIZING DATA MADE AVAILABLE THROUGH THE IEA
+   3910

OR ITS REPOSITORIES MUST ACKNOWLEDGE THE FACT THAT IEA WAS THE
+   3915

ORIGINAL COLLECTOR OF THE DATA. IN DOING SO, ALL USERS OF THE
+   3920

IEA DATA ARE REQUESTED TO USE THE FOLLOWING STATEMENT (THE
+   3925

PARENTHESES INDICATE ITEMS TO BE FILLED IN APPROPRIATELY OR
+   3930

DELETED BY THE INDIVIDUAL USER).
+   3935

   THE DATA (AND TABULATIONS) UTILIZED IN THIS (PUBLICATION)
+   3940
   WERE MADE AVAILABLE (IN PART) BY IEA THROUGH (REPOSITORY).
+   3945
   THE DATA WERE ORIGINALLY COLLECTED BY IEA. NEITHER THE
+   3950
   ORIGINAL COLLECTORS OF THE DATA NOR THE (REPOSITORY) BEARS
+   3955
   ANY RESPONSIBILITY FOR THE ANALYSES OR INTERPRETATIONS
+   3960
   PRESENTED HERE.
+   3965

IN ORDER TO ASSEMBLE ESSENTIAL INFORMATION ABOUT THE USE OF IEA
+   3970

DATA AND TO FACILITATE THE EXCHANGE OF INFORMATION ABOUT USERS'
+   3975

RESEARCH ACTIVITIES, INDIVIDUALS UTILIZING IEA DATA ARE REQUES-
+   3980

TED TO SEND A BRIEF PROPOSAL AND A PRE-PUBLICATION COPY OF EACH
+   3985

COMPLETED MANUSCRIPT OR THESIS ABSTRACT TO THE IEA OFFICES IN
+   3990

STOCKHOLM. PLEASE INDICATE IN A COVER LETTER WHICH DATA WERE
+   3993

USED.
+   3995

... .
+   4000

          INTRODUCTION
+   4002

   THIS CODEBOOK ABSOLUTELY MUST BE ACCOMPANIED BY THE
+   4004
INTRODUCTORY MANUAL AND THE INSTRUMENT AND MANUALS WHICH
+   4006
MAY BE OBTAINED FROM ERIC (EDUCATIONAL RESOURCES INFORMATION
+   4008
CENTER), AND ARE LISTED BELOW.
+   4010

NEW DATA BANK
+   4012
INSTRUMENT NUMBER   TITLE
+   4014
   TNSV   VIEWS ON THE TEACHING OF SCIENCE, VIEWS
+   4016
              ON PRACTICAL WORK
+   4018

IEA/M1 MANUAL FOR NATIONAL CENTERS
+   4020
IEA/M2 MANUAL FOR SCHOOL COORDINATORS
+   4022

DATA BANK TEACHER (DBT) FILE STRUCTURE, STAGE 2 SCIENCE
+   4024
   TEACHER ATTITUDES
+   4026

DESCRIPTION: IN THE DATA FILES DESCRIBED BY THIS CODEBOOK,
+   4028
   THE TEACHER IS THE UNIT OF ANALYSIS, WITH ALL THE DATA
+   4030
   FOR ONE TEACHER ARRANGED IN A SINGLE RECORD.
+   4032
RATIONALE: ONE OF THE OBJECTIVES OF THE DATA BANK PROJECT
+   4034

HAS BEEN TO MAKE ALL THE DATA EXCEPT THE NATIONAL
+   4036
OPTIONS AVAILABLE IN A FORMAT WHICH, WITH THE HELP OF
+   4038
PROGRAM PACKAGES SUCH AS SPSS, OSIRIS AND DATATEXT, CAN
+   4040
BE USED BY THE NOVICE TO DATA PROCESSING AS EASILY AS BY
+   4042
A PROFICIENT PROGRAMMER.
+   4044
   IT IS RECOGNIZED THAT THE CHOSEN FORMAT IS NOT THE
+   4046
MOST EFFICIENT ONE, NOR WILL IT BE APPROPRIATE FOR ALL
+   4048
ANALYSES. HOWEVER, IT WAS FELT TO BE MORE ADVANTAGEOUS
+   4050
TO THE USER TO REDUCE THE APPROXIMATELY 250 DISCRETE BUT
+   4052
RELATED DATA FILES TO 15 DISCRETE FORMATS TO AID RAPID
+   4054
MASTERY OF THE WHOLE.
+   4056

          CODEBOOK STRUCTURE
+   4058

DESCRIPTION: THE FORMAT IS AN ADAPTATION OF THE OSIRIS
+   4060
CODEBOOK DEVELOPED BY THE INTER-UNIVERSITY CONSORTIUM
+   4062
FOR POLITICAL RESEARCH (INSTITUTE FOR SOCIAL RESEARCH,
+   4064
UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN 48106 USA).
+   4066
THE IEA PROGRAM BY BIRGIT CEDHEIM ADAPTS THE ICPR FORMAT
+   4068
TO THE PARTICULAR REQUIREMENTS OF AN INTERRELATED GROUP
+   4070
OF INTERNATIONAL SURVEYS.
+   4072
DOCUMENTATION OF PROBLEMS: WHERE POSSIBLE, PROBLEMS WHICH
+   4074
THE USER WILL ENCOUNTER IN THE ANALYSIS OF THESE DATA
+   4076
HAVE BEEN INDICATED IN THE CODEBOOK OR ITS NOTES. NO
+   4078
ONE SHOULD BE MISLED INTO THINKING THAT THIS CATALOG OF
+   4080
ERRORS AND DEVIATIONS IS COMPLETE; ONLY THOSE ERRORS
+   4082
WHOSE DOCUMENTATION TIME AND RESOURCES PERMITTED ARE
+   4084
INDICATED HERE. SOME ADDITIONAL INFORMATION MAY BE
+   4086
OBTAINED FROM IEA'S ARCHIVES IN STOCKHOLM, AND SOME FROM
+   4088
THE RESPECTIVE NATIONAL CENTERS. ANY UNDOCUMENTED ERRORS

```
+                              4090
   OR PROBLEMS SHOULD BE COMMUNICATED TO IEA IN STOCKHOLM
+                              4092
   SO THAT A PERIODIC ERRATUM SHEET CAN BE DISTRIBUTED TO
+                              4094
   USERS.
+                              4096
 PRINTING CONVENTIONS:  ON NON-SWEDISH PRINTERS SOME
+                              4098
   CHARACTERS MAY PRINT ODDLY, AS FOLLOWS:  $ = A WITH A
+                              4100
   CIRCLE OVER IT, # = A WITH " OVER IT, AND @ = O WITH "
+                              4102
   OVER IT.
+                              4104
 CODEBOOK FORMATS -- VARIABLE DESCRIPTIONS:  THE EXAMPLE
+                              4106
   BELOW IS A REPRODUCTION (NOT ACTUAL SIZE) OF INFORMATION
+                              4108
   APPEARING IN THE MACHINE-READABLE CODEBOOK FOR A TYPICAL
+                              4110
   VARIABLE.  THE NUMBERS IN PARANTHESES DO NOT APPEAR IN
+                              4112
   THE CODEBOOK, BUT ARE REFERENCES TO THE DESCRIPTIONS
+                              4114
   WHICH FOLLOW THIS EXAMPLE.
+                              4116


   --------------------------------------------------------
+                              4118

   (1) IEA SIX-SUBJECT DATA BANK MANUAL      PAGE   2
+                              4120
   (2) VIEWS ON TEACHING...(TNSV)       (3)  74- 9- 5
+                              4122
                     (4) FILE TA000
+                              4124


     (5)        (6)      (7)    (8)
+                              4126
   *** VAR   5     LOC  11  F1.0  MD=9     ***
+                              4128
     REF   5  REF LOC  11
+                              4130


       (9)            (10)
+                              4132
      TNSV01   = OPEN-ENDED INVESTIGATIONS DESIRABLE/
+                              4134
     ----------------------------------------------
+                              4136


           (11) (12)     (13)
+                              4138
             1  A   DISAGREE STRNGLY
+                              4140
             2  B   DISAGREE
```

```
+                                    4142
         3  C  NO OPINION
+                                    4144
         4  D  AGREE
+                                    4146
         5  E  AGREE  STRONGLY
+                                    4148

   (14)
+                                    4150


   ------------------------------------------------------
+                                    4152

  1.  PAGE HEADING, REPEATED ON EVERY PAGE OF THE CODEBOOK.
+                                    4154
  2.  SUBHEADING TO IDENTIFY THE INSTRUMENT OR TYPE OF
+                                    4156
      SCORE TO WHICH THE FOLLOWING VARIABLES ON THE PAGE
+                                    4158
      ARE RELATED.
+                                    4160
  3.  THIS IS THE YEAR, MONTH AND DAY ON WHICH THE CODEBOOK
+                                    4162
      WAS INITIALLY PRODUCED BY THE IEA CODEBOOK PROGRAM.
+                                    4164
      TERMED "VERSION" ON THE TITLE PAGE, IT FACILITATES
+                                    4166
      IDENTIFICATION OF OBSOLETE CODEBOOKS.  THIS DATA DOES
+                                    4168
      NOT CHANGE WHEN THE USER LISTS A CODEBOOK DISTRIBUTED
+                                    4170
      BY IEA ON MAGNETIC TAPE.
+                                    4172
  4.  THIS INDICATES WHICH DATA FILES ARE DESCRIBED BY THE
+                                    4174
      CODEBOOK AND SERVES IT AS AN ABBREVIATED TITLE.  IT
+                                    4176
      CAN BE INTERPRETED FROM LEFT TO RIGHT AS FOLLOWS:
+                                    4178
      T=TEACHER FILE, A=STAGE 2 ATTITUDES TOWARD SCIENCE
+                                    4180
      TEACHING, 00 INDICATES THAT THE CODEBOOK APPLIES TO
+                                    4182
      ALL COUNTRIES WHICH ELECTED TO ADMINISTER THIS
+                                    4184
      INSTRUMENT, AND THE FINAL 0 INDICATES THAT THIS CODE-
+                                    4186
      BOOK APPLIES TO POPULATIONS 1, 2, 4 AND 5.
+                                    4188
  5.  INDICATES THE VARIABLE AND REFERENCE NUMBERS.  A
+                                    4190
      VARIABLE AND A REFERENCE NUMBER ARE ASSIGNED TO EACH
+                                    4192
      ITEM IN THE STUDY.  IN THE PRESENT CODEBOOK, WHICH
+                                    4194
      DOCUMENTS THE ARCHIVED DATASET, THESE NUMBERS ARE
```

+   4196
  IDENTICAL; SHOULD THE DATA BE SUBSETTED OR REARRANGED,
+   4198
  THE VARIABLE NUMBER WOULD CHANGE TO REFLECT THE ORDER
+   4200
  OF THE NEW DATASET, WHILE THE REFERENCE NUMBER WOULD
+   4202
  REMAIN UNCHANGED TO REFLECT THE VARIABLE NUMBER IN
+   4204
  THE CODEBOOK DESCRIBING THE ARCHIVED DATASET.
+   4206
  6. INDICATES THE REFERENCE LOCATION AND STARTING LOCA-
+   4208
  TION OF THIS VARIABLE WITHIN EACH RECORD IN THE FILE.
+   4210
  THE REFERENCE LOCATION REMAINS CONSTANT, WHILE THE
+   4212
  LOCATION CHANGES WITH EACH NEW DATA ARRANGEMENT.
+   4214
  THUS THE REFERENCE LOCATION SERVES THE SAME FUNCTION
+   4216
  WITH RESPECT TO THE LOCATION AS DOES THE REFERENCE
+   4218
  NUMBER WITH RESPECT TO THE VARIABLE NUMBER.
+   4220
  7. THE FORTRAN FORMAT FOR THE VARIABLE. HERE, IT
+   4222
  INDICATES THAT THE VARIABLE CONSISTS OF ONE NUMERIC
+   4224
  CHARACTER.
+   4226
  8. MD REFERS TO THE MISSING DATA CODE(S) FOR THE
+   4228
  VARIABLE. A VARIABLE FIELD FILLED WITH 9'S MOST
+   4230
  FREQUENTLY INDICATES THAT THE RESPONDENT FAILED TO
+   4232
  RESPOND TO THE ITEM. UNINTERPRETABLE MARKS ON AN MRC
+   4234
  CARD OR THE REMOVAL OF WILD VALUES DURING EDITING ALSO
+   4236
  RESULTED IN A FIELD OF 9'S TO INDICATE MISSING DATA
+   4238
  VALUES.
+   4240
  9. A SHORT NAME OF UP TO 8 CHARACTERS (SUITABLE FOR USE
+   4242
  WITH SPSS) UNIQUELY IDENTIFIES EACH INDIVIDUALLY
+   4244
  DESCRIBED VARIABLE IN THE FILE; IT CONSISTS OF THE
+   4246
  NEW DATA BANK INSTRUMENT NUMBER PLUS THE ITEM NUMBER
+   4248
  AS IT APPEARS ON THE INSTRUMENT.   AN EXCEPTION OCCURS
+   4250
  WHERE THE IDENTIFICATION ITEMS HAVE BEEN GIVEN MORE
+   4252

STRAIGHTFORWARD MNEMONICS (E.G., CNTRY FOR COUNTRY

+   4254

IDENTIFICATION NUMBER).

+   4256

10. AN EXTENDED VARIABLE LABEL OF UP TO 40 CHARACTERS

+   4258

PROVIDES AN INDICATION OF THE CONTENT OF THE ITEM,

+   4260

AND IS SUITABLE FOR USE WITH SPSS. SINCE ALL

+   4262

RELEVANT INFORMATION CANNOT BE SUMMARIZED SO BRIEFLY,

+   4264

THE USER IS STILL URGED TO REFER TO THE ITEM TEXT

+   4266

AND INSTRUCTIONS FOUND IN THE INSTRUMENTS, AVAILABLE

+   4268

FROM ERIC (EDUCATIONAL RESOURCES INFORMATION CENTER).

+   4270

11. THIS IS THE NUMERIC CODE ASSIGNED TO THE RESPONSE

+   4272

CATEGORY IN THE DATA.

+   4274

12. THIS COLUMN CONTAINS THE ALPHABETIC CODES USED ON THE

+   4276

INSTRUMENTS AND MRC CARDS.

+   4278

13. EACH VALUE IS GIVEN A LABEL SUMMARIZING THE

+   4280

CORRESPONDING RESPONSE FROM THE INSTRUMENT. SINCE

+   4282

THESE LABELS ARE DESIGNED FOR USE IN SPSS, THEY ARE

+   4284

NORMALLY NO MORE THAN 16 CHARACTERS LONG, AND IN NO

+   4286

CASE DO THEY EXCEED 20. WHEN POSSIBLE WITHOUT INTER-

+   4288

FERING WITH THE MEANING, SPACING BETWEEN WORDS MAY

+   4290

HAVE BEEN INCREASED SO THAT THE LABELS BREAK NATURALLY

+   4292

AFTER THE EIGHTH CHARACTER TO IMPROVE THE APPEARANCE

+   4294

OF SPSS CROSS-TABULATIONS WHICH USE THESE LABELS.

+   4296

14. ANY COMMENT UPON THE CONTENT OF THE VARIABLE APPEARS

+   4298

HERE.

+   4300

SCORING AND PROCESSING INFORMATION CAN BE FOUND IN THE

+   4302

SOURCES CITED EARLIER IN THIS CODEBOOK.

+   4304

SAMPLING AND WEIGHTING INFORMATION CAN BE FOUND IN THE

+   4306

INTRODUCTORY MANUAL AND THE NOTES BEGINNING WITH G WHICH
+   4308
APPEAR AT THE END OF "THE T2000" CODEBOOK.
+   4310

ACKNOWLEDGEMENTS: THE COLLECTION AND ARCHIVING OF THESE
+   4312
DATA WERE MADE POSSIBLE BY GRANTS FROM THE BANK OF SWEDEN
+   4314
TERCENTENARY FUND, THE FORD FOUNDATION, THE UNITED STATES
+   4316
OFFICE OF EDUCATION, STIFTUNG VOLKSWAGENWERK, THE
+   4318
LEVERHULME TRUST, THE CHANCELLOR OF SWEDISH UNIVERSITIES,
+   4320
AND UNESCO.
+   4322
1IEA SIX-SUBJECT DATA BANK MANUAL   PAGE   1
IDENTIFICATION   75- 8-27
                          FILE TA000
0
 *** VAR   1   LOC   1   F2.0   MD=99   ***
   REF   1   REF LOC   1
0   CNTRY   = COUNTRY NUMBER/

+   4350
              22   AUSTRALIA
+   4360
              30   CHILE
+   4370
              38   FED REP GERMANY
+   4500
              46   FRANCE
+   4600
              54   INDIA
+   4700
              66   JAPAN
+   4800
              74   NEW ZEALAND
+   4900
              82   SCOTLAND
+   5000
              86   SWEDEN
+   5100

   TNSV IS AN OPTIONAL INSTRUMENT.
+   5200

   THESE AND ONLY THESE COUNTRIES PARTICIPATED
+   5300
   IN STAGE 2 AND RETURNED TEACHER ATTITUDE DATA
+   5400
   FOR THE SAME TEACHERS WHO RESPONDED TO THE OTHER
+   5500
   IEA INSTRUMENTS.

```
+                                              5600

   IN A FEW COUNTRIES OTHER THAN THOSE LISTED ABOVE,
+                                              5700
   TNSV WAS ADMINISTERED TO A SMALL SEPARATE
+                                              5800
   JUDGEMENT SAMPLE OF TEACHERS.  THE DATA FROM
+                                              5900
   THESE SMALL SAMPLES WAS PROCESSED SEPARATELY AND
+                                              6000
   IS NOT AVAILABLE.
+                                              6100
0
 *** VAR   2      LOC   3    F1.0    MD=9         ***
    REF   2     REF LOC   3
0     POP     = POPULATION   /
       ----------------------------------------------------

+                                              6200
              1   I (10-YEAR OLDS)
+                                              6300
              2   II (14-YR OLDS)
+                                              6400
              3   FOR NATL USE
+                                              6500
              4   IV (PREUNIVRSTY)
+                                              6600
              5   SCOTLAND SP SCI
+                                              6700


   THIS CODEBOOK IS FOR POPULATIONS 1, 2, 4 AND 5.
+                                              6750
1IEA SIX-SUBJECT DATA BANK MANUAL                PAGE    2
 IDENTIFICATION                       75- 8-27
                         FILE TA000
0
 *** VAR   3      LOC   4    F4.0    MD=9999       ***
    REF   3     REF LOC   4
0     SCH     = SCHOOL NUMBER/
       ----------------------------------------------------

+                                              6800
   IDENTIFICATION NUMBER ASSIGNED TO SCHOOLS WITHIN
+                                              6900
   COUNTRIES.
+                                              7000
0
 *** VAR   4      LOC   8    F3.0    MD=999       ***
    REF   4     REF LOC   8
0     TCH     = TEACHER NUMBER/
       ----------------------------------------------------

+                                              7100
   IDENTIFICATION NUMBER ASSIGNED TO TEACHERS
+                                              7200
   WITHIN SCHOOLS.  TEACHERS ARE THUS UNIQUELY
```

```
+                               7300
    IDENTIFIED BY THE CHAIN CNTRY-POP-SCH-TCH.  IT
+                               7400
    SHOULD BE NOTED THAT IN THE CASES WHERE MORE THAN
+                               7500
    ONE POPULATION WAS TESTED IN A SINGLE SCHOOL,
+                               7600
    SOME TEACHER RECORDS MAY OCCUR IN THE DATA ONCE
+                               7700
    FOR EACH POPULATION TESTED.
+                               7800

    NOTE THAT, WHILE THE RANGE OF TEACHER IDENTIFICATION NUMBERS
+                               7805
    ON A DBTA000 FILE MAY EXACTLY MATCH THAT FOUND ON THE RESPEC-
+                               7810
    TIVE DBT2000 FILE, THIS DOES NOT NECESSARILY MEAN THAT EACH
+                               7815
    INDIVIDUAL TEACHER HAS THE SAME IDENTIFICATION NUMBERS ON BOTH
+                               7820
    FILES.  THE USER WHO WISHES TO ANALYZE ATTITUDE DATA WITH THE
+                               7825
    REMAINING TEACHER DATA MUST EITHER AGGREGATE THE DATA BEFORE
+                               7830
    MERGING VARIABLES (AND THUS ANALYZE AT THE SCHOOL LEVEL) OR
+                               7835
    WRITE THE IEA STOCKHOLM OFFICE FOR FURTHER INFORMATION.
+                               7840
0

 ...  ...  ...  ...  ...  ...  ...  ...  ...  ...

 VIEWS ON THE TEACHING OF SCIENCE-VIEWS ON
 PRACTICAL WORK (TNSV)
0
 *** VAR   5      LOC  11   F1.0   MD=9        ***
    REF   5    REF LOC  11
0     TNSV01  = OPEN-ENDED INVESTIGATIONS DESIRABLE /
       ------------------------------------------------------

+                               8100
              1 A  DISAGREE STRNGLY
+                               8200
              2 B  DISAGREE
+                               8300
              3 C  NO OPINION
+                               8400
              4 D  AGREE
+                               8500
```

```
0      (CONTINUED)
       -----------

              5 E  AGREE  STRONGLY
+                               8600
```

```
0
 *** VAR   6      LOC  12    F1.0    MD=9         ***
    REF   6    REF LOC  12
0     TNSV02  = PRACTICAL EXPERIENCE NOT ESSENTIAL  /
        ----------------------------------------------------

+                                       8700
                1 A  DISAGREE STRNGLY
+                                       8800
                2 B  DISAGREE
+                                       8900
                3 C  NO OPINION
+                                       9000
                4 D  AGREE
+                                       9100
                5 E  AGREE   STRONGLY
+                                       9200
0
 *** VAR   7      LOC  13    F1.0    MD=9         ***
    REF   7    REF LOC  13
0     TNSV03  = BEST NOT TAKE TIME FOR PRACTICAL WORK   /
        ----------------------------------------------------

+                                       9300
                1 A  DISAGREE STRNGLY
+                                       9400
                2 B  DISAGREE
+                                       9500
                3 C  NO OPINION
+                                       9600
                4 D  AGREE
+                                       9700
                5 E  AGREE   STRONGLY
+                                       9800
0
 *** VAR   8      LOC  14    F1.0    MD=9         ***
    REF   8    REF LOC  14
0     TNSV04  = PRACTICAL EXPERIENCES LAST LONGEST  /
        ----------------------------------------------------

+                                       9900
                1 A  DISAGREE STRNGLY
+                                       10000
                2 B  DISAGREE
+                                       10100
                3 C  NO OPINION
+                                       10200
                4 D  AGREE
+                                       10300
                5 E  AGREE   STRONGLY
+                                       10400
0
 *** VAR   9      LOC  15    F1.0    MD=9         ***
    REF   9    REF LOC  15
0     TNSV05  = LECTURE MORE IMPORTANT THAN LAB PREP   /
        ----------------------------------------------------
```

```
+                                    10500
                1 A  DISAGREE STRNGLY
+                                    10600
                2 B  DISAGREE
+                                    10700
```

```
         -----------

                3 C  NO OPINION
+                                    10800
                4 D  AGREE
+                                    10900
                5 E  AGREE   STRONGLY
+                                    11000
0
 *** VAR  10      LOC  16    F1.0    MD=9        ***
   REF  10    REF LOC  16
0     TNSV06  = INVESTIGATIONS TOO HARD TO PROVIDE  /
         ----------------------------------------------------

+                                    11100
                1 A  DISAGREE STRNGLY
+                                    11200
                2 B  DISAGREE
+                                    11300
                3 C  NO OPINION
+                                    11400
                4 D  AGREE
+                                    11500
                5 E  AGREE   STRONGLY
+                                    11600
0
 *** VAR  11      LOC  17    F1.0    MD=9        ***
   REF  11    REF LOC  17
0     TNSV07  = INVESTIGATIONS ESSENTIAL/
         -----------------------------------------------------

+                                    11700
                1 A  DISAGREE STRNGLY
+                                    11800
                2 B  DISAGREE
+                                    11900
                3 C  NO OPINION
+                                    12000
                4 D  AGREE
+                                    12100
                5 E  AGREE   STRONGLY
+                                    12200
0
 *** VAR  12      LOC  18    F1.0    MD=9        ***
   REF  12    REF LOC  18
0     TNSV08  = TOP PRIORITY TO INVESTIGATIONS  /
         -----------------------------------------------------
```

```
+                                12300
            1 A  DISAGREE STRNGLY
+                                12400
            2 B  DISAGREE
+                                12500
            3 C  NO OPINION
+                                12600
            4 D  AGREE
+                                12700
            5 E  AGREE   STRONGLY
+                                12800
```

```
0
 *** VAR  13      LOC  19    F1.0    MD=9          ***
   REF  13    REF LOC  19
0     TNSV09  = HALF-TIME ON PRACTICAL  /
        ---------------------------------------------------

+                                12900
            1 A  DISAGREE STRNGLY
+                                13000
            2 B  DISAGREE
+                                13100
            3 C  NO OPINION
+                                13200
            4 D  AGREE
+                                13300
            5 E  AGREE   STRONGLY
+                                13400
0
 *** VAR  14      LOC  20    F1.0    MD=9          ***
   REF  14    REF LOC  20
0     TNSV10  = INDIVIDUAL INQUIRY OF LITTLE VALUE  /
        ---------------------------------------------------

+                                13500
            1 A  DISAGREE STRNGLY
+                                13600
            2 B  DISAGREE
+                                13700
            3 C  NO OPINION
+                                13800
            4 D  AGREE
+                                13900
            5 E  AGREE   STRONGLY
+                                14000
0*** END OF RUN ***
```