

Appendix 4

HESES03 re-creation based on cost centre sector norms for subjects algorithms

Purpose

1. This appendix describes the method used to generate a HESES03 re-creation based on cost centre sector norms for subjects from the HESA 2003-04 student data using a cost centre sector norms mapping generated from HESA 2003-04 student data.
2. This appendix is aimed at expert readers with in-depth knowledge of the data. Readers are advised to have a copy of the 2003-04 HESA student record coding manual to hand when using this appendix.
3. The algorithms described in this appendix are the same as those in Appendix 1 except that the assignment of activity to price groups is based on the following 2003-04 mapping of subject activity to cost centres (and subsequently price groups).

HESA fields used in the HESES03 re-creation based on cost centre sector norms for subjects

4. Only certain fields, detailed in Table 8, were used to generate the HESES03 re-creation based on cost centre sector norms for subjects. The field numbers shown relate to the combined record format of the HESA record. For institutions making a student module return, cost centre information is taken from the module portion of the return.
5. Throughout this appendix fields taken from the HESA return or derived as part of the re-creation are shown in capitals using the names given in Tables 8 and 9 respectively.

Using the individualised file

6. When working through this appendix it is necessary to use the individualised file SNCC03XXXX.ind, where XXXX is the HESA identifier for the institution. Full details of how to access this file are given in Annex G. This will show the allocation of students to cells within the tables and, where relevant, details of why they were excluded.

Table 8 **Fields used in the re-creation**

Field number	Description	Name	Column in individualised file*
2	HESA institution identifier	INSTID	A
4	Student identifier	HUSID	B
41	General qualification aim of student	QUALAIM	DB
43-44	Subject of qualification aim	SBJQA1-3	DD-DF
72	Year of programme	YEARPRG	DJ
74	Student FTE	STULOAD	X
101,104,107,110,113,116,119,122,125,128,131,134,137,140,143,146	Subject area of study 1-16	SBJ01-16	Not included

102,105,108,111, 114,117,120,123, 126,129,132,135, 138,141,144,147	Proportion of subject 1-16	SBJPER01-16	Not included
149 [†]	Institution's own identifier for student	OWNSTU	D
150 [†]	Institution's own programme of study identifier	OWNPSD	E
151	Student instance number	NUMHUS	C
154	Level applicable to Funding Council HESES	FUNDLEV	AA
170	Regulated body for health and social care students	REGBODY	DC

* The individualised data file SNCC03XXXX.ind, downloadable from the HEFCE extranet (see Annex G).

[†] These fields are not used in the comparison but are included in the individualised file to allow easy identification of students.

Description of derived fields

7. Here we give details of the derived fields contained on the individualised data file. These fields are used to build the key dimensions of the HESES03 re-creation based on cost centre sector norms for subjects.

Table 9 **Derived fields**

Field name	Description	Paragraph	Column in individualised file*
CRSELGTH [†]	Expected length of the course in years	53	Z
HESCOL4 [†]	Flag indicating whether the student was included in Column 4	85	J
HESCOMP [†]	HESES completion of year of programme of study indicator	70	K
HESESFTE [†]	FTE for the year of programme of study	51-52	O
HESEXCL [†]	Reason for exclusion from the HESES population	72-73	G
HESFEELV [†]	Fee level	36	Y
HESLEVEL [†]	Level of study	23	M
HESMED [†]	Table 1b inclusion flag	61	N
HESMODE [†]	Mode of study	22	H
HESREG [†]	Column 1 or 2 indicator	69	I
HESTYPE [†]	Fundability status	24-0	L
HHCCN01-32	Module cost centres	14	AB-BG
HHSBJ01-32	Module subject area of study	15	BH-CM
LENGTH [†]	Flag indicating long or standard length years of programme of study	40	CN
MEDIAB [†]	Proportion of media activity assigned to sector norm price group B	64	CO
MEDIAC [†]	Proportion of media activity assigned to sector norm price group C	65	CP
MEDIAD [†]	Proportion of media activity assigned to sector norm price group D	66	CQ
PRIKEY [†]	Unique programme of study identifier	11	F

PRGA PRGB PRGC PRGD PRGMEDIA PRGPSYCH PRGITT PRGINSET [†]	Proportion of countable year in each price group	56-60	CR-CY
PSYCHB [†]	Proportion of psychology activity assigned to sector norm price group B	67	CZ
PSYCHD [†]	Proportion of psychology activity assigned to sector norm price group D	68	DA
SNPRGA SNPRGB SNPRGC SNPRGD SNMEDIA SNPSYCH SNITT SNINSET	Proportion of countable year in each sector norm price group	9-13	P-W
SPORT [†]	Flag indicating allocation of cost centre 38 to sector norm price groups	62-63	DG
STUBID [†]	Unique countable year of programme identifier	31-34	DH
XPRP101 [†]	Sector norm cost centre/subject proportion indicator	55	Not included
YEARONE [†]	New entrant flag	38-39	DI

* The individualised data file SNCC03XXXX.ind, downloadable from the HEFCE extranet (see Annex G).

[†]The algorithms for deriving these fields are given in Appendix 1.

8. Details of sector norm cost centre mapping are given below.

Sector norm cost centre	Subject code
01	A1, A3, A9, B5
02	A2, A4
03	D1, D2
05	B3, B6, B7, B8, B9
06	L5
07	C8
10	B1, B2, B4, C1, C2, C3, C4, C5, C7, C9, J7
11	F1
12	F3, F5
13	D3, D4, D5, D6, D7, D9
14	F6, F7, F9
16	H1, J9
17	H8
18	F2, J1, J2, J3, J4, J5
19	H2
20	H5, H6
21	H3, H4, H7, H9, J6
23	K1, K2, K3, K4, K9
24	G1, G3, G9
25	P1
27	G2, N1, N2, N3, N4, N5, N6, N7, N8, N9
28	F8, L7
29	L1, L2, L3, L4, L6, L9, M1, M2, M9, T8
30	P2, P3, P4, P5, P9
31	Q1, Q3, Q9, T5, W8
32	Q2, Q4, Q5, Q6, Q7, Q8, T7, V1, V2, V3, V5, V6, V9
33	W1, W2, W3, W4, W5, W6, W7, W9
34	X1, X2, X3, X9
35	R1, R2, R4, R9, T9
36	R3, R5, R6, R7, T1, T2, T3, T4, T6
37	F4, V4
38	C6
39	G4, G5, G6, G7

* The first two characters of SBJ01 – 16.

SNPRGA, SNPRGB, SNPRGC, SNPRGD, SNMEDIA, SNPSYCH, SNITT, SNINSET (Columns P-W in individualised file SNCC03XXXX.ind)

9. The proportion of activity assigned to each sector norm price group is contained in the eight sector norm price group fields given in the table below. The proportion of activity in each sector norm price group is calculated by summing the values of XPRP101 (see paragraph 55 of Appendix 1 for further details) for each sector norm cost centre over each sector norm price group. The table below shows the assignment of sector norm cost centres to sector norm price group fields and the value each field will take.

10. Where FTE from earlier academic years (FTE_CASE = 4, 7a) (see paragraphs 46-48 of Appendix 1 for further details) is used to improve the estimate of HESESFTE (see paragraphs 51-52 of Appendix 1 for further details), the price group assignments are also adjusted to take account of this. The same algorithm as detailed below is applied to sector norm cost centre assignments generated from YRSTULOA (see paragraph 45 of Appendix 1 for further details) to get a sector norm price group distribution for the first year. The sector norm price group distribution for the re-creation is weighted according to the relative balance of contribution of STULOAD and STULOAYY (see paragraph 44 of Appendix 1 for further details) to HESESFTE (see paragraphs 51-52 of Appendix 1 for further details). For students on ITT or INSET(QTS) courses, SNITT and SNINSET are set respectively.

11. In some cases the sum of SNPRGA, SNPRGB, SNPRGC, SNPRGD, SNMEDIA, SNPSYCH, SNITT, SNINSET may not equal one. In this case we scale SNPRGA, SNPRGB, SNPRGC, SNPRGD, SNMEDIA, SNPSYCH, SNITT, SNINSET so that their sum is one. The algorithm for deriving XPRP101 is given in paragraph 55 of Appendix 1.

Field name	Sector norm cost centres	Value of field
SNPRGA	See paragraphs 12-13	
SNPRGB	01 [#] , 02 [#] , 03 [#] , 04, 08, 09, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 39	sum of XPRP101s/100
SNPRGC	05, 06, 23, 24, 25, 26, 28, 33, 34 [†] , 35, 36, 37, 38*	sum of XPRP101s/100
SNPRGD	27, 29, 31, 32, 34 [†] , 38*, 41	sum of XPRP101s/100
SNMEDIA	30	sum of XPRP101s/100
SNPSYCH	07	sum of XPRP101s/100
SNITT	Courses of initial teacher training leading to QTS (TTCID = 1, 6, 7)	1
SNINSET	Courses of in-service education of teachers, where the student has QTS (TTCID = 3)	1

[#] Except those students identified as clinical medicine, dentistry and veterinary science in paragraphs 12-13.

[†] Activity that is ITT but does not lead to QTS (TTCID = 2) is allocated to sector norm price group C.

* Activity in sector norm cost centre 38 is assigned to sector norm price group as described in paragraphs 62- 63 of Appendix 1.

Medicine, dentistry and veterinary science – undergraduates

12. Undergraduate medicine, dentistry and veterinary science is assigned to sector norm price groups as follows. The algorithm for deriving CRSELGTH is given in paragraph 53 of Appendix 1.

Field	Description	Definition	Value of field
SNPRGA	Clinical medicine	FUNDLEV = 10, 11 and QUALAIM = 18 and REGBODY = 01 and CRSELGTH – YEARPRG = 0, 1, 2 and (SBJQA1* = A3 or SBJQA2* = A3 or SBJQA3* = A3)	1
SNPRGA	Veterinary science	QUALAIM = 18 and REGBODY = 14 and (SBJQA1* = D1, D2 or SBJQA2* = D1, D2 or SBJQA3* = D1, D2)	
SNPRGA	Clinical dentistry	FUNDLEV = 10, 11 and QUALAIM = 18 and REGBODY = 02 and CRSELGTH – YEARPRG = 0, 1, 2, 3 and (SBJQA1* = A4 or SBJQA2* = A4 or SBJQA3* = A4)	
SNPRGB	Pre-clinical medicine and dentistry	FUNDLEV = 10, 11 and QUALAIM = 18 and REGBODY = 01, 02 and not above	1

FUNDLEV, QUALAIM, REGBODY, CRSELGTH, YEARPRG and SBJQA1-3 are included in columns AA, DB, DC, Z, DJ and DD-DF in the individualised file SNCC03XXXX.ind.

* The first two characters of the field are used.

Clinical medicine, dentistry and veterinary science – postgraduates

13. Postgraduate medicine, dentistry and veterinary science is assigned to sector norm price groups as follows. The algorithm for deriving XPRP101 is given in paragraph 55 of Appendix 1.

Field	Description	Definition	Value of field
SNPRGA	Clinical medicine and dentistry	Sector norm cost centre = 01, 02 and SBJQA1* = A3, A4	sum of XPRP101s/100
SNPRGA	Veterinary science	Sector norm cost centre = 03	sum of XPRP101s/100

* The first two characters of the field are used.

HHCCN01-32 (Columns AB-BG in the individualised file SNCC03XXXX.ind)

14. The HHCCN01-32 contain all the cost centre information returned for the student.

HHSBJ01-32 (Columns BH-CM in the individualised file SNCC03XXXX.ind)

15. The HHSBJ01-32 contain all subject area of study information returned for the student.