Appendix 4

HESES04 re-creation based on cost centre norms for subjects algorithms

Purpose

1. This appendix describes the method used to generate a HESES04 re-creation based on cost centre sector norms for subjects from the HESA 2004-05 student data using a cost centre sector norms mapping generated from HESA 2003-04 student data.

2. It is aimed at expert readers with in-depth knowledge of the data. Readers are advised to have a copy of the HESA Student Record Coding Manual 2004-05 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 2004-05 mapping of subject activity to cost centres (and subsequently price groups) found in paragraph 8.

HESA fields used in the HESES04 re-creation based on cost centre sector norms for subjects

4. Only certain fields, detailed in Table 12, were used to generate the HESES04 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 and module subject 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 12 and 13 respectively.

Using the individualised file

6. When working through this appendix it is necessary to use the individualised file SNCC04XXXX.ind, where XXXX is the HESA identifier for the institution. Full details of how to access this file are at Annex G. This will show the allocation of students to cells within the tables and, where relevant, details of why they were excluded.

Table 12 **Fields used in the HESES04 re-creation based on cost centre norms for subjects algorithms**

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
166†	Institution's own campus identifier	INSTCAMP	DK
170	Regulated body for health and social care students	REGBODY	DC

* The individualised data file SNCC04XXXX.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 in the individualised data file. These fields are used to build the key dimensions of the HESES04 re-creation based on cost centre sector norms for subjects.

Table 13 **HESES04 re-creation based on cost centre sector norms for subjects derived fields**

Field name	Description	Paragraph	Column in individualised file*
CRSELGTH†	Expected length of the course in years	51	Z
HESCOL4†	Flag indicating whether the student was included in Column 4	80	J
HESCOMP†	HESES completion of year of programme of study indicator	66	K
HESESFTE†	FTE for the year of programme of study	49-50	O
HESEXCL†	Reason for exclusion from the HESES population	68-69	G
HESFEELV†	Fee level	37	Y

HESLEVEL†	Level of study	27	M
HESMED†	Table 1b inclusion flag	59	N
HESMODE†	Mode of study	22	H
HESREG†	Column 1 or 2 indicator	65	I
HESTYPE†	Fundability status	23-25	L
HHCCN01-32	Module cost centres	14-15	AB-BG
HHSBJ01-32	Module subject area of study	16-19	BH-CM
LENGTH†	Flag indicating long or standard length years of programme of study	39	CN
MEDIAB†	Proportion of media activity assigned to sector norm price group B	62	CO
MEDIAC†	Proportion of media activity assigned to sector norm price group C	63	CP
MEDIAD†	Proportion of media activity assigned to sector norm price group D	64	CQ
PRIKEY†	Unique programme of study identifier	11	F
PRGA PRGB PRGC PRGD PRGMEDIA PRGITT PRGINSET†	Proportion of countable year in each price group	54-58	CR-CY
SNPRGA SNPRGB SNPRGC SNPRGD SNMEDIA 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	60-61	DG
STUBID†	Unique countable year of programme identifier	32-35	DH
XPRP101†	Sector norm cost centre/subject proportion indicator	53	Not included
YEARONE†	New entrant flag	38	DI

* The individualised data file SNCC04XXXX.ind, downloadable from the HEFCE extranet (see Annex G).

† The algorithms for deriving these fields are given in Appendix 1. For these algorithms, the paragraph numbers reference Appendix 1, and the columns reference the individualised file HESR04XXXX.ind, downloadable from the HEFCE extranet (see Annex G).

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

Sector norm cost centre	**Subject code***
01	A1, A3, A9

02	A2, A4
03	D1, D2
04	B5
05	B3, B6, B7, B8, B9
06	L5
07	C8
08	B2
10	B1, B2, B4, C1, C2, C3, C4, C5, C7, C9, D6, F4, J7
11	F1
12	F3, F5
13	D3, D4, D5, 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
25	G4, G5, G6, G7, G9, 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, Q2, Q3, Q4, Q5, Q6, Q7, Q8, T5, T7, T9, V1, V2, V3, V5, V6, V9, W8
33	W1, W2, W3, W4, W5, W6, W7, W9
34	X1, X2, X3, X9
35	Q9, R1, R2, R3, R4, R5, R6, R7, R9, T1, T2, T3, T4, T6
37	V4
38	C6

* The first two characters of SBJ01 – 16.

SNPRGA, SNPRGB, SNPRGC, SNPRGD, SNMEDIA, 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 seven 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 53 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 44-46 of Appendix 1 for further details) is used to improve the estimate of HESESFTE (see paragraphs

49-50 of Appendix 1 for further details), the price group assignments are also adjusted to take account of this. The same algorithm as detailed in paragraph 11 below is applied to sector norm cost centre assignments generated from YRSTULOA (see paragraph 43 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 42 of Appendix 1 for further details) to HESESFTE (see paragraphs 49-50 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, SNITT, SNINSET may not equal one. In this case we scale SNPRGA, SNPRGB, SNPRGC, SNPRGD, SNMEDIA, SNITT, SNINSET so that their sum is one. The algorithm for deriving XPRP101 is given in paragraph 53 of Appendix 1. Students on a sandwich year out (HESMODE = SWOUT) are assigned to sector norm price group C, regardless of the relevant academic cost centre.

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	sum of XPRP101s/100
SNPRGC	05, 06, 07, 23, 24, 25, 26, 28, 33, 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
SNITT	Courses of initial teacher training leading to QTS (TTCID = 1, 6, 7)	1
SNINSET	Courses for teachers (TTCID = 3), where the student has QTS	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 entirely 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 60-61 of Appendix 1.

Medicine, dentistry and veterinary science – undergraduates

12. Undergraduate (HESLEVEL = UGX) medicine, dentistry and veterinary science is assigned to sector norm price groups as follows. The algorithm for deriving CRSELGTH is given in paragraph 51 of Appendix 1.

Field	Description	Definition	Value of field
SNPRGA	Clinical medicine	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	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	QUALAIM = 18 and REGBODY = 01, 02 and not above	1

* 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 53 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. These fields contain cost centre information returned for the student.

15. Where data for the student are returned on the combined record, HHCCNXX = COSTCNXX.

16. Where data for the student are returned using the student module return, if XX is an odd number, HHCCNXX contains the cost centre returned in COSTCN01 from the module record for the module returned in MODULEYY, where YY = (XX + 1) / 2. Similarly if XX is an even number, HHCCNXX contains the cost centre returned in COSTCN02 from the module record for the module returned in MODULEYY, where YY = XX / 2. For example, if the student module return is used, HHCCN15 contains COSTCN01 for MODULE08 and HHCCN16 contains COSTCN02 for MODULE08.

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

17. These fields contain module subject information returned for the student.

18. Where data for the student are returned on the combined record, HHSBJXX = SBJXX.

19. Where data for the student are returned using the student module return, if XX is an odd number, HHSBJXX contains the JACS code returned in SBJ01 from the module record for the module returned in MODULEYY, where YY = (XX + 1) / 2. Similarly if XX is an even number, HHSBJXX contains the JACS code returned in SBJ02 from the module record for the module returned in MODULEYY, where YY = XX / 2. For example, if the student module return is used, HHSBJ27 contains COSTCN01 for MODULE14 and HHSBJ28 contains COSTCN02 for MODULE1.