

Appendix 10

Research degree rates of qualification algorithms

Purpose

1. This appendix describes the algorithms that were used to generate the research degree rates of qualification and the context statistics on the number of research degree students that are active but have not qualified.
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.

HESA fields used in the re-creation

3. Only certain fields, detailed in Table 14, were used to generate the research degree rates of qualification. The field numbers shown relate to the combined record format of the HESA record.
4. Throughout this appendix, fields taken from the HESA return or derived as part of the rates calculation are shown in capitals using the names given in Tables 14 and 15 respectively.

Using the individualised file

5. When working through this appendix it is necessary to use the individualised file RDQR03XXXX.ind, where XXXX is the HESA institution identifier. Full details of how to access this file are given in Annex G. The individualised file contains one record per student (HUSID) for each year where the qualification aim is recorded as either a research doctorate, research masters or research bachelorship (QUALAIM = 02, 04, 06). Where a HUSID has multiple instances in a given year, the HUSID with the lowest QUALAIM value is selected. If a HUSID has multiple instances with the same QUALAIM, the HUSID with the earliest COMDATE is selected.

Table 14 **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
26	Date of commencement of programme	COMDATE	I
33	Reason for leaving institution	RSNLEAVE	K
35	Date left institution or completed the programme	DATELEFT	J
37	Qualification obtained 1	QUAL1	R
38	Qualification obtained 2	QUAL2	S
41	General qualification aim of student	QUALAIM	H
65	Fundability code	FUNDCODE	M
66	Fee eligibility	FEEELIG	N
67	Fee band	FEEBAND	X
70	Mode of study	MODE	W
71	Location of study	LOCSDY	Y
149†	Institution's own identifier for the student	OWNSTU	D
150†	Institution's own programme of study identifier	OWNPSD	E
151†	Student instance number	NUMHUS	C

* The individualised data file RDQR03XXXX.ind, downloadable from the HEFCE extranet (see Annex G).

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

Linking programmes of study between years

6. To track students between years, we have linked HESA student data between the years of 1995-96 and 2003-04 using the HUSID, INSTID pairing.

Description of derived fields

7. The research degree rates of qualification are generated using the derived fields given in Table 15.

Table 15 **Derived fields**

Field name	Description	Paragraph	Column in individualised file*
ACTIVE	Flag indicating field whether the student was not awarded a PhD or similar research degree and was actively pursuing studies	15	U
CRSELGTH†	Expected length of the course in years	53	Z
MDESWTCH	Flag indicating whether the student switched mode during study for the doctoral programme	17	AA
MODEYEAR	Mode of study during year	16	V
PHDPOP	Flag indicating study for a doctoral programme	11	O
PHDQUAL	Flag indicating whether the student was awarded a doctoral qualification	13	Q
PHDYEAR	Academic year that the student started studying for a doctoral programme	12	P
QUALYEAR	Academic year that the student was awarded a doctoral qualification	14	T
RDQRMODE	Research degree rates of qualification: mode of study	18	AB
RDQRPOP	Flag indicating study for a postgraduate research degree	10	G
RDQRSTART	Academic year of earliest date of commencement of programme	19	AC
RDQRTYPE	Fundability and residential status	9	L
RDQRYEAR	Academic year of the HESA student data	8	F

* The individualised data file RDQR03XXXX.ind, downloadable from the HEFCE extranet (see Annex G).

† The algorithm for deriving this field is given in Appendix 1.

RDQRYEAR (Column F in the individualised file RDQR03XXXX.ind)

8. This field contains the academic year of the record. For example, student data extracted from the 1997-98 HESA student record is identified by RDQRYEAR = 1997.

RDQRTYPE (Column L in the individualised file RDQR03XXXXX.ind)

9. This field allocates the research degree student to fundability and residential status*.

Value	Description	Definition
HOMEEC	Home and EC funded	FUNDCODE = 1, 4 or (FUNDCODE = 2, 5, 7 and FEEELIG = 1, 3)
ISOV	Island and overseas	Otherwise

* Algorithm for 2003-04 data only (RDQRYEAR = 2003). To obtain the algorithms used to assign mode for the academic years 1995-96 to 2002-03 contact Matthew Davies on 0117 931 7373.

FUNDCODE and FEEELIG are included in columns M and N in the individualised file RDQR03XXXXX.ind.

RDQRPOP (Column G in the individualised file RDQR03XXXXX.ind)

10. This field indicates whether the student is included in the research degree rates of qualification population.

Value	Description	Definition
1	Student is in the research degree rates of qualification population	QUALAIM = 02, 04, 06 and COMDATE > 31 July 1995 and DATELEFT > COMDATE + 365 days and RDQRTYPE ≠ ISOV and RSNLEAVE ≠ 05
0	Otherwise	Otherwise

QUALAIM, COMDATE, DATELEFT, RDQRTYPE and RSNLEAVE are included in columns H, I, J, L and K in the individualised file RDQR03XXXXX.ind.

PHDPOP (Column O in the individualised file RDQR03XXXXX.ind)

11. This field indicates whether the student is a PhD student.

Value	Description	Definition
1	PhD student	RDQRPOP = 1 and in any previous QUALAIM = 02
0	Otherwise	Otherwise

RDQRPOP and QUALAIM are included in columns G and H in the individualised file RDQR03XXXXX.ind.

PHDYEAR (Column P in the individualised file RDQR03XXXXX.ind)

12. This field contains the academic year that the student started the doctoral programme. For example, a student that first appeared on a doctoral programme (QUALAIM = 02) in the 1999-2000 HESA student record is recorded as PHDYEAR = 1999.

PHDQUAL (Column Q in the individualised file RDQR03XXXXX.ind)

13. This field indicates whether the student has been awarded a doctoral qualification.

Value	Description	Definition
1	PhD student	PHDPOP = 1 and (QUAL1 = 02 or QUAL2 = 02)
0	Otherwise	Otherwise

PHDPOP and QUAL1-2 are included in columns O, R and S in the individualised file RDQR03XXXXX.ind.

QUALYEAR (Column T in the individualised file RDQR03XXXX.ind)

14. This field contains the academic year that the student was awarded a doctoral qualification. For example, a student that first appeared on a doctoral programme (PHDQUAL=1) in the 1999-2000 HESA student record is recorded as PHDYEAR = 1999.

ACTIVE (Column U in the individualised file RDQR03XXXX.ind)

15. This field indicates whether the student was active on a doctorate programme, but has not yet qualified.

Value	Description	Definition
1	Student is active on a doctorate programme	PHDPOP = 1 and PHDQUAL = 0 and MODE ≠ (43, 44, 63, 64)
0	Otherwise	Otherwise

PHDPOP and PHDQUAL are included in columns O and Q in the individualised file RDQR03XXXX.ind.

MODEYEAR (Column V in the individualised file RDQR03XXXX.ind)

16. This field allocates the research degree student to mode of study*.

Value	Description	Definition
FT3	Full-time and expected length of programme is less than or equal to three years	((MODE = 01, 52, 53 or (MODE = 23, 24, and FEEBAND ≠ 02, 42) or (MODE = 23, 24 and FEEBAND = 02, 42 and LOCSDY = D, E, F, G)) and CRSELGTH ≤ 4
FT3+	Full-time and expected length of programme is greater than three years	((MODE = 01, 52, 53 or (MODE = 23, 24, and FEEBAND ≠ 02, 42) or (MODE = 23, 24 and FEEBAND = 02, 42 and LOCSDY = D, E, F, G)) and CRSELGTH > 3
PT	Part-time	Otherwise

* Algorithm for 2003-04 data only (RDQRYEAR = 2003). To obtain the algorithms used to assign mode for the academic years 1995-96 to 2002-03 contact XXXXXXXX on XXXXXXXX.

MODE, FEEBAND, LOCSDY and CRSELGTH are included in columns W, X, Y and Z in the individualised file RDQR03XXXX.ind.

MDESWTCH (Column AA in the individualised file RDQR03XXXX.ind)

17. This field indicates whether the student switched mode, from full-time to part-time or vice-versa, during the doctoral programme.

Value	Description	Definition
1	Student switched mode during the doctoral programme	RDQRYEAR ≥ PHDYEAR and MODEYEAR has changed from (FT3 or FT3+) to PT or vice versa
0	Student did not switch mode during the doctoral programme	Otherwise

RDQRYEAR, PHDYEAR and MODEYEAR are included in columns F, P and V in the individualised file RDQR03XXXX.ind.

RDQRMODE (Column AB in the individualised file RDQR03XXXX.ind)

18. This field assigns the research degree rate of qualification mode of study.

Value	Description	Definition
SWTCH	Student switched mode during the doctoral programme	MDESWTCH = 1
FT3	Full-time and expected length of programme is less than or equal to three years	MODEYEAR = FT3
FT3+	Full-time and expected length of programme is greater than three years	MODEYEAR = FT3+
PT	Part-time	MODEYEAR = PT

MDESWTCH and MODEYEAR are included in columns AA and V in the individualised file RDQR03XXXX.ind.

RDQRSTART

19. This contains the academic year of the earliest date of commencement of programme. For example if the earliest value for COMDATE is 1999 then the RDQRSTART is 1999.