Appendix 1

HEIFES05 re-creation algorithms

Purpose

- 1. This appendix describes the method used to re-create HEIFES05 from the submitted 2005-06 ILR F04 data. It also describes the method used to generate the report on adjustments to grant for 2005-06 using 2005-06 ILR F04 data.
- 2. This appendix is aimed at expert readers with in-depth knowledge of the data. Readers are advised to have a copy of 'Specification of the individualised learner record for 2005/06' (available from the LSC) and 'HEIFES05: Higher Education in Further Education: Students Survey 2005-06' (HEFCE 2005/40) to hand when using this appendix. They should also have copies of their institution's finalised 2005-06 grant tables.

Extraction and manipulation of 2005-06 ILR F04 data

3. All 2005-06 ILR F04 data returned to and passed as valid by the LSC before 20 November 2006 have been processed using the methods described in this document.

2005-06 ILR F04 fields used in the re-creation

- 4. Only certain fields, detailed in Table 5, were used to generate the comparison between HEIFES05 and 2005-06 ILR F04 data. Fields from the learner data set take the prefix ST_; those from the learning aim data set have the prefix QA_; those from the HE data set have the prefix HQ_; and all other fields are from the Learning Aim Database.
- 5. Throughout this appendix, fields taken from the 2005-06 ILR F04 return are shown in capitals using the names given in Table 5 and Table 6.

Using the individualised file

- 6. When working through this appendix it is necessary to use the individualised file, HEIFER05YYYYYY.ind, where YYYYYY is the provider number ST_UPIN (L01) for the college. Details of how to download this file are given in Annex E.
- 7. The individualised file contains the allocation of students to cells within the HEIFES05 re-creation tables or, where relevant, details of why they were excluded. For institutions with individualised files that do not contain more than 65,530 records (the maximum number of records that can be viewed in Excel), the following guidance will assist them in the troubleshooting process:
 - a. Open the individualised file HEIFER05YYYYYY.ind, and click File, Open. You will need to specify 'All files' in the 'Files of type' box before the individualised file will appear in the list. Once you have selected the file, the 'Text Import Wizard' will appear. Ensure that 'Delimited' is selected near the top of the window, then click 'Next'. On the next page, uncheck 'Tab' and check 'Comma'. Click 'Finish' to open the file.
 - b. Select the row containing the field headings.
 - c. Select <filter> from the data menu and then <autofilter>.
 - d. Click on the arrow in the column containing the data which you want to filter.
 - e. Either select a specific value or select <custom> to apply a comparison operator other than equality.

To select records using multiple fields, repeat steps d and e for each field.

Table 5 Fields used in the re-creation

| | B | | D . () | Column in |
|--------------------|--|------------|-----------------|----------------------|
| Field code | Description | Name | Data set | individualised file* |
| L01 | Contract/Allocation | ST_UPIN | Learner | Α |
| | provider number | | | |
| L02 | Contract/Allocation type | ST_ALLNO | Learner | <u>C</u> |
| L03 | Learner reference | ST_REF | Learner | D |
| | number | | | |
| L24 | Country of domicile | ST_DOMIC | Learner | BQ |
| L42 [†] | Provider-specified | ST_COLL1/ | Learner | G |
| | learner data | ST_COLL2 | | Н |
| A05 | Sequence number | QA_SEQNO | Learning aim | E |
| A09 | Learning aim reference | QA_AIM_R | Learning aim | L |
| A11 | Source of funding other | QA_FEHE1/ | Learning aim | BL |
| | than the LSC | QA_FEHE2 | | BM |
| A27 | Learning start date | QA_ST_DA | Learning aim | BN |
| A31 | Learning actual end date | QA_EN_DA | Learning aim | ВО |
| A48 [†] | Provider-specified | QA_COLL1/ | Learning aim | 1 |
| | learning aim data | QA_COLL2 | | J |
| H09 | Learner instance number | HQ_NUMHU | HE | F |
| H13 | Type of programme year | HQ_PYTYP | HE | BE |
| H14 | Mode applicable to HEIFES | HQ_MHESE | HE | AZ |
| H15 | Level applicable to HEIFES | HQ_LHESE | HE | AY |
| H16 | Completion of year of programme of study | HQ_COMPY | HE | AV |
| H17 | Learner FTE | HQ FTEHE | HE | AX |
| H18 | Year of programme of study | HQ_PROGY | HE | BD |
| H19 | Fee band | HQ_FEBND | HE | AW |
| H33, | Proportion taught in | HQ PERS1, | HE | BA |
| H34, | Superclass 1, 2 and 3 | HQ_PERS2, | | BB |
| H35 | subject | HQ_PERS3 | | ВС |
| AWARDING BODY | Awarding body code | AWARD BO | Learning Aim | |
| CODE | | | Database | |
| ENGLAND FE HE | England FE/HE status | ENG_LEVE | Learning Aim | AQ |
| STATUS_CODE | g • • • • • • • • • • • • | <u>-</u> | Database | |
| LEARNDIRECT_CODE | Learndirect code | LDCS_COD | Learning Aim | BW |
| | | <u> </u> | Database | • |
| LEARNING_AIM_TYPE_ | Learning aim type | QUAL_TYP | Learning Aim | BP |
| CODE | | ~0/ \L_111 | Database | ٥. |
| | ••••••••••••••••••••••••• | | _ ದ ದ ರ ದ ರ ರ ರ | |

| SUPERCLASS_CODE, The Superclass II | SUPERCL1, | Learning Aim BT |
|--|-----------|-----------------|
| SUPERCLASS2_CODE, subject classification | SUPERCL2, | Database BU |
| SUPERCLASS3_CODE | SUPERCL3 | BV |

^{*} The individualised data file, HEIFER05YYYYYY.ind, downloadable from the web (see Annex E for further details).

Linking between years

- 8. We have linked the 2005-06 ILR F04 data to previous years' data using the fields ST_REF (L03), ST_UPIN (L01), QA_SEQNO (A05) and HQ_NUMHU (H09).
- 9. The link was used to help determine the following:
 - a. Programme of study attributes for the first countable year for students who are generating two countable years.
 - b. FTE for final year students on non-standard academic years of programmes of study.
- 10. For sub-paragraph 8a above, only records from 2004-05 were included in the linking process. For 8b, records from 2001-02 onwards were used.

Description of derived fields

11. This section provides details of the derived fields in the individualised data file. These fields are used to build the key dimensions of the HEIFES05 re-creation.

Table 6 Derived fields

| Field name | Description | Paragraph | Column in individualised file* |
|-------------------|---|-----------|--------------------------------|
| ANNIV | Anniversary of start date in academic year | 18 | AK |
| ATT_LINK | Flag indicating whether linking was used for course attributes | 19 | AL |
| AVRGLOAD | Average load | 32 | AM |
| D_FUND | Flag indicating whether the student is directly funded by HEFCE | 51 | CA |
| EXCL1 – EXCL64 | Flags indicating reason(s) for a learning aim's exclusion | 43-49 | N-T |
| FTE_CASE | Non-standard academic year case | 28-30 | AS |
| FTE_LINK | Flag indicating whether a link was used to calculate FTE | 25 | AT |
| HEFCOL4 | Flag indicating whether the student was included in HEIFES Column 4 | 50 | W |
| HEFCOMP | Completion of year of programme of study indicator | 40 | Χ |
| HEFESFTE | FTE consistent with HEIFES definitions | 33 | AB |
| HEFEXCL | Exclusion reason(s) | 41-42 | M |
| HEFFEELV | Fee level | 22 | AJ |

[†] These fields are not used in the comparison but are included in the individualised file to assist identification of learning aims.

| Lovel of aturdy | 1 E | 7 |
|---|---|---|
| <u> </u> | | Z |
| Mode of study | 14 | U |
| Recognised HE qualification aim | 13 | AU |
| Column 1 or 2 indicator | 39 | V |
| Fundability status | 16 | Υ |
| Unique learning aim identifier | 12 | K |
| Long or standard length years of programme of study | 23 | AA |
| Proportion of media activity assigned to price group B | 36 | BF |
| Proportion of media activity assigned to price group C | 37 | BG |
| Proportion of media activity assigned to price group D | 38 | BH |
| Proportion of countable year in each price group | 34-35 | AC-AI |
| | | |
| | | |
| | | |
| | | |
| | | |
| Proportion of FTE allocated to second countable year | 31 | BI |
| Flag indicating allocation of sports science courses to | 52-53 | СВ |
| price groups | | |
| Unique year of programme of study identifier | 20-21 | BR |
| HQ_FTEHE in year YRSTULOA | 26 | BS |
| Flag indicating last year programme of study | 24 | BX |
| Year STULOAYY taken from | 27 | BZ |
| | Column 1 or 2 indicator Fundability status Unique learning aim identifier Long or standard length years of programme of study Proportion of media activity assigned to price group B Proportion of media activity assigned to price group C Proportion of media activity assigned to price group D Proportion of countable year in each price group Proportion of FTE allocated to second countable year Flag indicating allocation of sports science courses to price groups Unique year of programme of study identifier HQ_FTEHE in year YRSTULOA Flag indicating last year programme of study | Mode of study Recognised HE qualification aim Column 1 or 2 indicator 39 Fundability status 16 Unique learning aim identifier Long or standard length years of programme of study Proportion of media activity assigned to price group B Proportion of media activity assigned to price group C Proportion of media activity assigned to price group D Recognition of media activity assigned |

^{*} The individualised data file, HEIFER05YYYYYY.ind, downloadable from the web (see Annex E for further details).

ILRKEY (Column K in individualised file HEIFER05YYYYYY.ind)

12. The ILRKEY field uniquely identifies learner aims on the 2005-06 ILR F04 return.

HEFQAIM (Column AU in individualised file HEIFER05YYYYYY.ind)

13. The HEFQAIM field allocates qualification aims to broad recognised HE qualification aims.

| Value | Description | Definition |
|--------|---------------|--|
| FIRST | First degree | QUAL_TYP = 0394, 1406, 1407, 1408, 1409, 9000, 9002, 9107, |
| | | E007 and ENG_LEVE = H |
| MASTER | Masters | QUAL_TYP = 0393, 1410, 2001, 9100, 9101, 9109 and |
| | | ENG_LEVE = H |
| HIGHER | Higher degree | QUAL_TYP = E008, 1411, 1412 and ENG_LEVE = H |
| DIPHE | DipHE | QUAL_TYP = 9112 and ENG_LEVE = H |
| PGCE | PGCE | QUAL TYP = 9103 and ENG LEVE = H |

| CERTED | CertEd | QUAL_TYP = 9111 and ENG_LEVE = H |
|---------|----------------------|--|
| FOUDEG | Foundation degree | QUAL_TYP = 9110 and ENG_LEVE = H |
| FDBC | Foundation degree | QUAL_TYP = 9113 and ENG_LEVE = H |
| | bridging course | |
| DIPSW | DipSW | QUAL_TYP = 1427 and ENG_LEVE = H |
| PGDIP | Postgraduate | QUAL_TYP = 0125, 0126 and ENG_LEVE = H |
| | diploma | |
| HNC | HNC | QUAL_TYP = 0031 and ENG_LEVE = H and (AWARD_BO = |
| | | EDEXCEL, SQA and UK higher education institutions*) |
| HND | HND | QUAL_TYP = 0032 and ENG_LEVE = H and (AWARD_BO = |
| | | EDEXCEL, SQA and UK higher education institutions*) |
| UGOTHER | Other | College-specific approvals for inclusion as recognised-HE in |
| | undergraduate | HEIFES (undergraduate) |
| PGOTHER | Other postgraduate | College-specific approvals for inclusion as recognised-HE in |
| | | HEIFES (postgraduate) |
| OTHER | Other qualifications | Otherwise |

^{*} UK higher education institutions are identified where AWARD_BO = APU, BATHSPA, BIRKBECK, BNU, BOLTONIN, BRUNEL, BU, CAF, CITY, CU, DMU, DU, HAUC, HUAVA, HUDDU, HULLU, KCL, KINGSTON, LANU, LEEDU, LJM, LMU, LONDON, LONDONMET,LOUUI, LU, MIDU, MMU, NTU, OBU, UOLE, OU, PU, RAM, RCA, RCM, SALFU, SBU, SHU, SINST, STAFFU, TVU, UCANTCC, UCC, UCLAN, UCE, UEA, UK, UNEWCAST, UNIEXE, UNORTH, UOB, UOG, UOGLOS, UOH, UOM, UON, UOS, UOSH, UOST, UOSX, UOSY, UOT, UOW, UOWR, UOY, UW, UWE, WU, UCNORTON, UNIBRI, UOBATH, UODE, UORG, UOPLY, UOWAR.

HEFMODE (Column U in individualised file HEIFER05YYYYYY.ind)

14. The HEFMODE field allocates students to mode of study.

| Value | Description | Definition |
|-------|------------------------|---------------------|
| FTS | Full-time and sandwich | HQ_MHESE (H14) = 01 |
| SWOUT | Sandwich year-out | HQ_MHESE (H14) = 02 |
| PT | Part-time | HQ_MHESE (H14) = 03 |

HEFLEVEL (Column Z in individualised file HEIFER05YYYYYY.ind)

15. The HEFLEVEL field allocates students to level of study.

| Value | Description | Definition |
|-------|-------------------------|-------------------------------------|
| FD | Foundation degree | HQ_LHESE (H15) = 10, 11 and |
| | | HEFQAIM=FOUDEG |
| UGX | Undergraduate excluding | HQ_LHESE (H15)=10, 11 and HEFQAIM ≠ |
| | foundation degree | FOUDEG |
| PGT | Postgraduate | HQ_LHESE (H15) = 20, 21, 30, 31 |

HEFTYPE (Column Y in individualised file HEIFER05YYYYYY.ind)

16. The HEFTYPE field allocates students to fundability and status.

| Value | Description | Definition |
|--------|---------------------------|--|
| HOMEF | Home and EC HEFCE funded | (QA_FEHE1 (A11A) = 001 or QA_FEHE2 (A11B) |
| | | = 001) and HQ_LHESE(H15) ≠ 30, 31 |
| HOMEIF | Home and EC independently | (QA_FEHE1 (A11A)= 002 or QA_FEHE2 (A11B) = |
| | funded | 002) and HQ_LHESE(H15) ≠ 30, 31 |
| HOMENF | Home and EC non-fundable | ST_DOMIC (L24) = EC* and (QA_FEHE1 (A11A) |
| | | ≠ 001, 002 and QA_FEHE2 (A11B) ≠ 001, 002 or |
| | | HQ_LHESE(H15) = 30, 31) |
| ISOV | Island and overseas | Otherwise |

^{*} EC domiciled is identified where ST_DOMIC (L24) = 099, 299, 399, 599, 610, 614, 638, 639, 641, 651, 653, 656, 659, 661, 670, 671, 676, 678, 693, 700, 710, 718, 727, 728, 751, 755, 772, 827, 831, 833, 835, 850.

Second countable years of programme of study

17. Programmes of study that mainly consist of non-standard academic years, but where all activity for the final year of programme of study falls entirely within an academic year, will generate two countable years of programme of study in the final academic year.

ANNIV (Column AK in individualised file HEIFER05YYYYYY.ind)

18. The ANNIV field contains the anniversary of the start date during the 2005-06 academic year.

ATT_LINK (Column AL in individualised file HEIFER05YYYYYY.ind)

19. The ATT_LINK field indicates whether a link has been made to improve our estimate of attributes for the first year of programme of study, when two years of programme of study are generated.

| Value | Description | Definition |
|-------|---|---|
| 1 | Two years of programme of | <u>In 2005-06 data</u> |
| | study generated | HQ_PYTYP (H13) = 1 and QA_ST_DA (A27) < 1 August 2005 and QA_EN_DA (A31) < 1 August 2006 and QA_EN_DA (A31) > ANNIV + 14 days |
| | | In linked 2004-05 data |
| | | HQ_PYTYP (H13) = 2, 3, 4 |
| 0 | Single year of programme of study generated | Otherwise |

STUBID (Column BR in individualised file HEIFER05YYYYYY.ind)

20. The STUBID field uniquely identifies years of programme of study when used in conjunction with ILRKEY. Where a learning aim generates two years of programme of study within a single academic year we create two records in the individualised file. These records are distinguished using STUBID.

| Value | Description |
|-------|-----------------------------------|
| 1 | First year of programme of study |
| 2 | Second year of programme of study |
| 0 | One year of programme of study |

21. When STUBID = 1 we use 2004-05 ILR F04 data to populate the following fields:

| HQ_COMPY (H16) | QUAL_TYP | HQ_PROGY (H18) | HQ_LHESE (H15) |
|----------------|----------------|----------------------------|----------------|
| HQ MHESE (H14) | HQ FEBND (H19) | QA FEHE1-2 (A11A and A11B) | HQ PYTYP (H13) |

HEFFEELV (Column AJ in individualised file HEIFER05YYYYYY.ind)

22. The HEFFEELV field contains the level of tuition fee chargeable to the student. The table below shows the hierarchy of values we use, with NHS bursaried courses being first in the hierarchy.

| Value | Description | Definition |
|-------|-----------------------------------|---|
| NHS | NHS bursaried courses | (((QA_FEHE1 (A11A) = 013 or QA_FEHE2 (A11B) = 013) and QA_FEHE1 (A11A) \neq 001, 002 and QA_FEHE2 (A11B) \neq 001, 002) or (QA_FEHE1 (A11A) = 009 or QA_FEHE2 (A11B) = 009)) and (HEFQAIM = FIRST or (QA_ST_DA (A27)< 31 December 2003 and HEFQAIM = DIPHE)) and (SUPERCL1* = PB, PF, PG, PH, PJ or SUPERCL2* = PB, PF, PG, PH, PJ or SUPERCL3* = PB, PF, PG, PH, PJ) |
| FDBC | Foundation degree bridging course | HEFQAIM = FDBC and not above |
| 1175 | Undergraduate full fee | HQ_FEBND (H19) = 01 and not above |
| 570 | Undergraduate half fee | HQ_FEBND (H19) = 02 and not above |
| 0 | ERAMUS/SOCRATES students | HQ_FEBND (H19) = 03 and not above |
| OTHER | Other fee charged | Otherwise |

^{*} The first two characters of the field are used.

LENGTH (Column AA in individualised file HEIFER05YYYYYY.ind)

23. The LENGTH field indicates whether the student is on a standard or long year of programme of study.

| Value | Description | Definition |
|-------|-------------|-----------------------------|
| L | Long | HQ_LHESE (H15) = 11, 21, 31 |
| S | Standard | Otherwise |

TAIL (Column BX in individualised file HEIFER05YYYYYY.ind)

24. The TAIL field indicates whether the year of programme of study is the end of a sequence of non-standard years of programme of study reported.

| Value | Description | Definition |
|-------|-------------------------------|---|
| 1 | Last year of split FTE course | STUBID = 2 or (HQ_PYTYP (H13) = 2, 5 and QA_EN_DA (A31) ≥ 1 August 2005 and QA_EN_DA (A31) < 1 August 2006) |
| 0 | Otherwise | Otherwise |

FTE_LINK (Column AT in individualised file HEIFER05YYYYYY.ind)

25. The FTE_LINK field indicates whether a successful link was made to improve our estimates of FTE for students studying on non-standard academic years. The link has only been made for students starting such courses after 31 July 2001 and completing them during academic year 2005-06.

| Value | Description | Definition |
|-------|------------------------------|---|
| 1 | Student load from first year | <u>In 2005-06 data</u> |
| | used in calculating | TAIL = 1 |
| | HEFESFTE | In linked data |
| | | HQ_PYTYP (H13) = 2, 3 and QA_ST_DA (A27) in academic year |
| 0 | Otherwise | Otherwise |

STULOAYY (Column BS in individualised file HEIFER05YYYYYY.ind)

26. The STULOAYY field contains the value of HQ_FTEHE (H17), capped at 100, from the year of linked FTE data. The year the HQ_FTEHE (H17) is taken from is given in YRSTULOA. This field is only completed where FTE_LINK = 1.

YRSTULOA (Column BZ in individualised file HEIFER05YYYYYY.ind)

27. The YRSTULOA field contains the year the value in STULOAYY is taken from. For example, if YRSTULOA = 2004 then STULOAYY was taken from the ILR July 2004-05 record. This field is only completed if FTE_LINK = 1.

FTE_CASE (Column AS in individualised file HEIFER05YYYYYY.ind)

- 28. For non-standard academic years or when two years of programme of study are generated, the method used to calculate HEFESFTE depends on the following factors:
- a. Duration of the programme of study.
- b. Number of years of programme of study generated in HEIFES05.
- c. Whether the year of programme of study is the last or not.
- 29. The FTE_CASE field indicates which case of non-standard academic years of programme of study the year of programme of study satisfies.

| Value | Description | Definition |
|-------|--|--|
| 0 | Standard academic year | HQ_PYTYP (H13) = 1 and ATT_LINK = 0 |
| 1 | Non-standard academic year, one year generated in HEIFES05 and the programme of study is in the final year and a link was made to the first year | FTE_LINK = 1 and ATT_LINK = 0 |
| 2 | Non-standard academic year, one year generated in HEIFES05 and the programme of study is in the final year and a link was not made to the first year | FTE_LINK = 0 and ATT_LINK = 0 and TAIL = 1 |
| 3 | Non-standard academic year, one year generated in HEIFES05, and the programme of study is not the final year | FTE_LINK = 0 and ATT_LINK = 0 and TAIL = 0 |

| Two ye | ears generated in HEIFES05 and a link was made to the ar | |
|---------|--|--|
| 4a | First year | FTE_LINK = 1 and ATT_LINK = 1 and STUBID = 1 |
| 4b | Second year | FTE_LINK = 1 and ATT_LINK = 1 and STUBID = 2 |
| Two yet | ears generated in HEIFES05 and a link was not made to | |
| 5a | First year | FTE_LINK = 0 and ATT_LINK = 1 and STUBID = 1 |
| 5b | Second year | FTE_LINK = 0 and ATT_LINK = 1 and STUBID = 2 |

30. We do not attempt to link across years to obtain FTE for full-time and sandwich and sandwich year-out students (HEFMODE = FTS, SWOUT) that do not generate two years of programme of study.

PROP (Column BI in individualised file HEIFER05YYYYYY.ind)

31. The PROP field contains the proportion of HQ_FTEHE (H17) that is allocated to the second year of programme of study where two years are generated. PROP is calculated as (QA_EN_DA (A31) – ANNIV) / (QA_EN_DA (A31) – 31 July 2005).

AVRGLOAD (Column AM in individualised file HEIFER05YYYYYY.ind)

32. The AVRGLOAD field contains the arithmetic mean of HQ_FTEHE (H17) for all students on non-standard academic years of programme of study in their first academic year, with the same HQ_MHESE (H14) and QUAL_TYP at the same college.

HEFESFTE (Column AB in individualised file HEIFER05YYYYYY.ind)

33. The HEFESFTE field contains the FTE we assume for the year of programme of study. The table below shows the method of calculating HEFESFTE for different groups of non-standard academic years of programme of study. The table shows the hierarchy of values used, with 100 being first in the hierarchy.

| Value | Definition |
|---------------------|----------------------------|
| 100 | HEFMODE = FTS |
| 50 | HEFMODE = SWOUT |
| 30 | HEFQAIM = FDBC |
| HQ_FTEHE | FTE_CASE = 0 and not above |
| HQ_FTEHE + STULOAYY | FTE_CASE = 1 and not above |
| HQ_FTEHE + AVRGLOAD | FTE_CASE = 2 and not above |
| HQ_FTEHE | FTE_CASE = 3 and not above |

| (HQ_FTEHE + STULOAYY) – (HQ_FTEHE × PROP) | FTE_CASE = 4a and not above |
|---|-----------------------------|
| HQ_FTEHE × PROP | FTE_CASE = 4b and not above |
| (HQ_FTEHE + AVRGLOAD) – (HQ_FTEHE x PROP) | FTE_CASE = 5a and not above |
| HQ_FTEHE x PROP | FTE_CASE = 5b and not above |

Price groups

PRGB, PRGC, PRGD, PRGMEDIA, PRGPSYCH, PRGITT, PRGINSET (Columns AC-AI in individualised file HEIFER05XXXXXX.ind)

34. Price group is assigned by mapping the three Superclass II fields, SUPERCL1 - SUPERCL3, to price groups as indicated in the table below. For initial teacher training (ITT) and INSET students the distribution based on superclass codes is not used and all activity is assigned to the ITT and INSET price groups respectively.

| Field name | Superclass II code (SUPERCL1, SUPERCL2, SUPERCL3) | Value* |
|---------------------|---|--------------|
| PRGB | PB, PC.1, PC.5, PE.6, PE.7, PF.1, PF.2, PG.1, PG.2, QA.3, | sum of |
| | QH.6, RA, RC - RF, RH, SA, SB-SD, SG-SJ (excl. SJ.5 & | HQ_PERSX/100 |
| | SJ.61), SK, TL, TM, VE, VF.4, VG, WA.1 - WA.6, WC.1 - WC.4, | |
| | WE, XH - XL, XP - XR, XT, YC - YE | |
| PRGC ^{† Φ} | CA - CH, CY, DC, FK, J, L, M, NA – NH, PC.2 – PC.4, PC.6 – | sum of |
| | PC.8, PD, PE.1 – PE.5, PE.8, PF.3 – PF.8, PG.3 – PG.5, PH – | HQ_PERSX/100 |
| | PQ, QA.1, QA.2, QA.4 - QA.8, QC - QG, RB, RG, SE, SL - SO, | |
| | TA - TK, WA.7, VB, VC, VF.1 – VF.3, VF.5, VF.6, WB, WC.5 - | |
| | WD, WF - WM, XA - XF, XM, XN, XS, YA, YB | |
| PRGD | A, B, CX, CZ, DA, DB, DD, DE, E, FB, FC, FJ, FL, G, H, KB, | sum of |
| | KC, NK - NN, PA, Q (excl. QA, QC - QG, QH.6), SE.2 - SF, | HQ_PERSX/100 |
| | SJ.5, SJ.61, SP, VD, VF.7, Z | |
| PRGMEDIA | CY.3 - CZ, KA, KD – KJ | sum of |
| | | HQ_PERSX/100 |
| PRGITT | College specific | 1 |
| PRGINSET | QA_FEHE1 = 025 or QA_FEHE2 = 025 | 1 |
| | | |

^{*} Where HQ_PERSX is HQ_PERS1 (H33), HQ_PERS2 (H34), HQ_PERS3 (H35). If HQ_PERS1-3 are set to 0 or blank, and HEFQAIM does not equal OTHER, we use the learndirect code from the Learner Aims Database to assign price group. Annex H of HEFCE 2005/40 contains details of which price group learndirect codes map to.

[†] All Certificate of Education activity (HEFQAIM = CERTED) is assigned to price group C.

^Ф All students on a sandwich year-out are assigned to price group C.

^{35.} For example, if the qualification a student is linked to has SUPERCL1 = PB, SUPERCL2 = DC and SUPERCL3 = RH and HQ_PERS1 = 060.0, HQ_PERS2 = 030.0 and HQ_PERS3 = 010.0; the price group fields will be completed as: PRGB = 0.6 + 0.1 = 0.7, PRGC = 0.3.

MEDIAB (Column BF in individualised file HEIFER05YYYYYY.ind)

36. The MEDIAB field contains the proportion of media activity assigned to price group B.

MEDIAC (Column BG in individualised file HEIFER05YYYYYY.ind)

37. The MEDIAC field contains the proportion of media activity assigned to price group C.

MEDIAD (Column BH in individualised file HEIFER05YYYYYY.ind)

38. The MEDIAD field contains the proportion of media activity assigned to price group D.

HEFREG (Column V in individualised file HEIFER05YYYYYY.ind)

39. The HEFREG field indicates whether the student will appear in Column 1 or 2.

| Value | Description | Definition |
|-------|----------------------|--|
| 1 | Included in Column 1 | HQ_PYTYP (H13) = 2 to 5 or (HQ_PYTYP (H13) = 1 and ANNIV < 2 |
| | | November 2005) |
| 2 | Included in Column 2 | Otherwise |

HEFCOMP (Column X in individualised file HEIFER05YYYYYY.ind)

40. The HEFCOMP field indicates whether the student will appear in Column 3 or 4.

| Value | Description | Definition |
|-------|----------------------|--------------------|
| 3 | Included in Column 3 | HQ_COMPY (H16) = 2 |
| 4 | Included in Column 4 | Otherwise |

HEFEXCL (Column M in individualised file HEIFER05YYYYYY.ind)

41. The HEFEXCL field contains the exclusion reason(s) for the learning aim. Learning aims included have HEFEXCL = 0.

| Value | Description | Definition |
|-------|---|--|
| 1 | Not active in academic year | QA_ST_DA (A27) > 31 July 2006 or QA_EN_DA (A31) < 1 August 2005 |
| 2 | Non-recognised HE, FE, NVQ or QTS students | HEFQAIM = OTHER |
| 4 | Students explicitly excluded from the HEIFES05 population | HQ_LHESE (H15) = 99, blank or HQ_MHESE (H14) = 99, blank or HQ_COMPY (H16) = 9, blank |

| 8 | Students with an FTE of less than 3% | HEFESFTE < 3 |
|----|---|---|
| 16 | Students on a non-standard academic year in the first academic year | QA_ST_DA (A27) > 31 July 2005 and QA_ST_DA (A27) < 1 August 2006 and HQ_PYTYP (H13) = 2, 3 |
| 32 | Students who withdrew before 2 November 2005 | QA_EN_DA (A31) < 2 November 2005 and HQ_COMPY (H16) = 2 |
| 64 | No price group information | PRGB + PRGC + PRGD + PRGMEDIA + PRGINSET + PRGITT = 0 and HEFESFTE ≥ 3 |

^{42.} The value in HEFEXCL will be the sum of all applicable exclusion codes for the learning aim. For example, if HEFEXCL = 13, then subtracting figures from the above table starting at the bottom, we see that the learning aim has an FTE of less than 3 per cent (HEFEXCL = 8), is explicitly excluded from the HEIFES05 learning aim population (HEFEXCL = 4) and is not active in the academic year (HEFEXCL = 1).

EXCL1 (Column N in individualised file HEIFER05YYYYYY.ind)

43. EXCL1 is the flag indicating students excluded due to non-activity in the academic year.

| Value | Description | Definition |
|-------|-----------------------------|---|
| 1 | Not active in academic year | QA_ST_DA (A27) > 31 July 2006 or QA_EN_DA (A31) < |
| | | 1 August 2005 |
| 0 | Active in academic year | Otherwise |

EXCL2 (Column O in individualised file HEIFER05YYYYYY.ind)

44. EXCL2 is the flag indicating students excluded because they are studying for a non-recognised HE, FE, NVQ or QTS programme of study.

| Value | Description | Definition |
|-------|---------------------------------|-----------------|
| 1 | Non-recognised HE, FE, NVQ or | HEFQAIM = OTHER |
| | QTS qualification aim | |
| 0 | Recognised HE qualification aim | Otherwise |

EXCL4 (Column P in individualised file HEIFER05YYYYYY.ind)

45. EXCL4 is the flag indicating students explicitly excluded by the college as 'Not in HEIFES population'.

| Value | Description | Definition |
|-------|--------------------------------------|--|
| 1 | Student explicitly excluded from the | HQ_LHESE (H15) = 99, blank or HQ_MHESE (H14) = |
| | HEIFES05 student population | 99, blank or HQ_COMPY (H16) = 9, blank |
| 0 | Student not explicitly excluded from | Otherwise |
| | the HEIFES05 student population | |

EXCL8 (Column Q in individualised file HEIFER05YYYYYY.ind)

46. EXCL8 is the flag indicating whether a student was excluded due to an FTE of less than 3 per cent.

| Value | Description | Definition | |
|-------|---------------------|--------------|--|
| 1 | FTE of less than 3% | HEFESFTE < 3 | |
| 0 | FTE of at least 3% | Otherwise | |

EXCL16 (Column R in individualised file HEIFER05YYYYYY.ind)

47. EXCL16 is the flag indicating students excluded because they are in the first academic year of a non-standard academic year of programme of study.

| Value | Description | Definition |
|-------|-----------------------------------|--|
| 1 | Students on non-standard years of | QA_ST_DA (A27) > 31 July 2005 and QA_ST_DA (A27) |
| | programme of study in the first | < 1 August 2006 and HQ_PYTYP (H13) = 2, 3 |
| | academic year | |
| 0 | Not above | Otherwise |

EXCL32 (Column S in individualised file HEIFER05YYYYYY.ind)

48. EXCL32 is the flag indicating whether a student was excluded due to withdrawing before 2 November 2005.

| Value | Description | Definition |
|-------|------------------|---|
| 1 | Early withdrawal | QA_EN_DA (A31) < 2 November 2005 and HQ_COMPY |
| | | (H16) = 2 |
| 0 | Not above | Otherwise |

EXCL64 (Column T in individualised file HEIFER05YYYYYY.ind)

49. EXCL64 is the flag indicating whether a student has a mismatch between price group apportioning and Superclass II code fields.

| Value | Description | Definition |
|-------|----------------------------|--|
| 1 | No price group information | PRGB + PRGC + PRGD + PRGMEDIA + PRGINSET + |
| | | PRGITT = 0 and HEFESFTE ≥ 3 |
| 0 | Not above | Otherwise |

HEFCOL4 (Column W in individualised file HEIFER05YYYYYY.ind)

50. The HEFCOL4 field indicates whether the student is included in Column 4.

| Value | Description | Definition |
|-------|--------------------------|-----------------------------|
| 1 | Included in Column 4 | HEFCOMP = 4 and HEFEXCL = 0 |
| 0 | Not included in Column 4 | Otherwise |

D_FUND (Column CA in individualised file HEIFER05YYYYYY.ind)

51. The D FUND field indicates whether the student is directly funded by HEFCE.

| Value | Description |
|-------|--------------------------------|
| 1 | Student is directly funded |
| 0 | Student is not directly funded |

Sports science and leisure

52. In 2004-05 we reviewed the mapping of the sports science and leisure studies courses (learndirect codes MA to MJ, NL and NM) to price groups. As a result, a list of institutions was drawn up whose provision in this cost centre met threshold criteria for the use of well equipped sports science laboratories and/or sports facilities, hence the allocation to price group C. This list was used in the allocation of students to price groups.

SPORT (Column CB in individualised file HEIFER05XXXX.ind)

53. The SPORT flag identifies whether sports science and leisure studies activity is assigned to price group C.

| Value | Description |
|-------|---|
| 1 | Sports science allocated to price group C |
| 0 | Sports science allocated to price group D |

Funding for teaching

- 54. As part of the HEIFES05 re-creation we produce the following reports which show the calculation of grant adjustments:
 - a. HEIFES05 re-creation grant adjustments.
 - b. HEIFES05 re-creation recalculation of standard resource.
 - HEIFES05 re-creation recalculation of assumed fee income.

55. Further details on the calculation of teaching grant can be found in 'Funding higher education in England: How HEFCE allocates its funds' (HEFCE 2005/34).

Grant adjustment report

56. The figures shown in the HEIFES05 re-creation grant adjustments report are sourced from 2005-06 ILR F04 data and the final 2005-06 individual grant tables. Figures that are sourced from the 2005-06 individual grant tables are described in the annex to Toby West-Taylor's letter of 28 February 2005.

The report on adjustments to grant is made up of the following sections:

- funding conditional upon delivery of growth
- provisional contract range holdback/divergence
- consolidated 2004-05 holdback recovered
- adjustment to 2005-06 and 2006-07 grants.

Funding conditional upon delivery of growth

Actual FTEs (HEFCE-fundable)

57. The students used to derive 'Actual FTEs (HEFCE-fundable)' can be identified by selecting HEFCOL4 = 1 and HEFTYPE = HOMEF, HOMEIF. 'Actual FTEs (HEFCE-fundable)' can be found by summing HEFESFTE and dividing by 100 for these students.

Funds due back

58. If the 'Associated maximum funding (\mathfrak{L}) ' for 'FTEs required to fully recover reduction in ASN funding' is 'Not applicable', we set 'Funds due back' to £0. Otherwise, if 'Actual FTEs (HEFCE-fundable)' is greater than '2005-06 Baseline FTEs', we subtract '2005-06 Baseline FTEs' from 'Actual FTEs (HEFCE-fundable)' and multiply this difference by 'Rate per FTE (\mathfrak{L}) ' to give 'Funds due back'. If this calculation of 'Funds due back' is greater than the 'Associated maximum funding (\mathfrak{L}) ', we adjust 'Funds due back' to equal the 'Associated maximum funding (\mathfrak{L}) '.

Funds to be held back

59. If the 'Associated maximum funding (\mathfrak{L}) ' for 'FTEs required to avoid reduction in ASN funding' is 'Not applicable', we set 'Funds to be held back' to £0. Otherwise, if 'Actual FTEs (HEFCE-fundable)' is less than 'FTEs required to avoid reduction in ASN funding', we subtract 'Actual FTEs (HEFCE-fundable)' from 'FTEs required to avoid reduction in ASN funding' and multiply this difference by 'Rate per FTE (\mathfrak{L}) ' to give 'Funds to be held back'. If this calculation of 'Funds to be held back' is greater than the 'Associated maximum funding (\mathfrak{L}) ', we adjust 'Funds to be held back' to equal the 'Associated maximum funding (\mathfrak{L}) '.

Provisional contract range holdback/divergence

- 60. 'Net mainstream teaching funds' is calculated by subtracting 'Funds to be held back' from 'Total mainstream teaching funds for 2005-06' and then adding 'Funds due back'.
- 61. 'Recalculated assumed fee income for 2005-06' is the total '2005-06 Assumed fees (average fee x the HEIFES05 re-creation FTE)' as described in paragraphs 79-86.
- 62. 'Recalculated assumed resource for 2005-06' is calculated by adding 'Net mainstream teaching funds' to 'Recalculated assumed fee income for 2005-06'.
- 63. 'Recalculated standard resource for 2005-06' is the total '2005-06 Standard resource' as described in paragraphs 69-78.

- 64. 'Difference' is calculated by subtracting 'Recalculated standard resource for 2005-06' from 'Recalculated assumed resource for 2005-06'.
- 65. To calculate 'Percentage difference', 'Difference' is divided by 'Recalculated standard resource for 2005-06' and multiplied by 100. If 'Percentage difference' falls within the '2005-06 Contract range' then 'Divergence from contract range' is 0.0 per cent. If 'Percentage difference' is outside the '2005-06 Contract range', 'Divergence from contract range' is the variance between the 'Percentage difference' and the '2005-06 Contract range'.
- 66. 'Provisional contract range holdback/divergence' is generated depending on whether the college is above or below its contract range. If the college is above its contract range, 'Provisional contract range holdback' is calculated by multiplying 'Divergence from contract range' by 'Recalculated standard resource for 2005-06'. If the college is below its contract range, 'Provisional contract range divergence' is also calculated by multiplying 'Divergence from contract range' by 'Recalculated standard resource for 2005-06'.

Consolidated 2004-05 holdback recovered

67. Colleges have an opportunity to recover any funding deducted from their baseline as a result of the consolidation of 2004-05 contract range holdback. This will be repaid to the extent that the reinstatement of funding keeps a college within its 2005-06 contract range. Further information was provided in Toby West-Taylor's letter of 28 February 2005 (paragraph 19 and Annex A paragraphs 39 to 42). Information on how we calculate 'Consolidated 2004-05 contract range holdback recoverable in 2005-06' and 'Difference between "Percentage difference" and top of contract range' can be found in the HEIFES explanatory notes, available as part of the download package with workbooks.

In-year moderation

68. Information on how we calculate 'Provisional total funding adjustment for 2005-06 before moderation generated by HEIFES05 re-creation', 'Provisional in-year moderation due to 2005-06 holdback generated by HEIFES05 re-creation', 'Provisional net funding adjustment to be applied in 2005-06 generated by HEIFES05 re-creation' and 'Provisional adjustment to 2006-07 baseline grant generated by HEIFES05 re-creation' can also be found in the HEIFES explanatory notes.

Calculation of standard resource

69. We calculate standard resource based on 2005-06 ILR F04 student data using:

- 2005-06 FTEs from HEIFES05 re-creation
- 2005-06 FTEs weighted by price group
- premiums applied to unweighted FTEs
- premiums applied to FTEs weighted by price group
- base price.

2005-06 FTEs from HEIFES05 re-creation

70. '2005-06 FTEs from HEIFES05 re-creation' are identified by summing the FTE of students in each combination of length (LENGTH), level (HEFLEVEL), mode (HEFMODE) and price group. Examples of the assignment to price groups are described below.

Price group B

71. To identify HEFCE-funded, long, full-time and sandwich foundation degrees assigned to price group B, from the individualised file, select HEFTYPE = HOMEF and LENGTH = L and HEFMODE = FTS and HEFLEVEL = FD and HEFCOL4 = 1, and PRGB > 0 or PRGMEDIA > 0. The number of '2005-06 FTEs from HEIFES05 re-creation' can be found by adding the following totals:

- multiply HEFESFTE by PRGB, sum the values and divide by 100 where PRGB > 0
- multiply HEFESFTE by PRGMEDIA and MEDIAB, sum the values, and divide by 100 where PRGMEDIA > 0.

Price group C

72. To identify HEFCE-funded, long, full-time and sandwich, and sandwich year-out undergraduates excluding foundation degrees assigned to price group C, from the individualised file, select HEFTYPE = HOMEF and LENGTH = L and HEFMODE = FTS, SWOUT and HEFLEVEL = UGX and HEFCOL4 = 1, and PRGC > 0 or PRGMEDIA > 0. The number of '2005-06 FTEs from HEIFES05 re-creation' can be found by adding the following totals:

- multiply HEFESFTE by PRGC, sum the values, and divide by 100 where PRGC > 0
- multiply HEFESFTE by PRGMEDIA and MEDIAC, sum the values, and divide by 100 where PRGMEDIA > 0.

Price group D

73. To identify HEFCE-funded, long, full-time and sandwich, undergraduates excluding foundation degrees assigned to price group D, from the individualised file, select HEFTYPE = HOMEF and LENGTH = L and HEFMODE = FTS and HEFLEVEL = UGX and HEFCOL4 = 1, and PRGD > 0 or PRGMEDIA > 0. The number of '2005-06 FTEs from HEIFES05 re-creation' can be found by adding the following totals:

- multiply HEFESFTE by PRGD, sum the values, and divide by 100 where PRGD > 0
- multiply HEFESFTE by PRGMEDIA and MEDIAD, sum the values, and divide by 100 where PRGMEDIA > 0.

2005-06 FTEs weighted by price group

74. We calculate the '2005-06 FTEs weighted by price group' by multiplying '2005-06 FTEs from HEIFES05 re-creation' by their price group weighting, for each combination of mode, level and length. The price group weightings are given in Table 7.

Table 7 Price group cost weighting description

| Price group | Description | Cost weighting |
|-------------|---|----------------|
| В | Laboratory-based subjects (science, engineering and technology) | 1.7 |
| С | Subjects with a studio, laboratory or fieldwork element | 1.3 |
| D | All other subjects | 1.0 |

Premiums applied to unweighted FTEs

Part-time (10%)

75. We calculate 'Part-time (10%)' by multiplying '2005-06 FTEs from HEIFES05 re-creation' by 0.1 for each combination of price group, level and length, where HEFMODE = PT.

Foundation degrees (10%)

76. We calculate 'Foundation degrees (10%)' by multiplying '2005-06 FTEs from HEIFES05 re-creation' by 0.1 for each combination of price group, length and mode, where HEFLEVEL = FD.

Premiums applied to FTEs weighted by price group

77. Information on how we calculate 'Long courses ≥ 45 weeks (25%)', 'London weighting (inner London = 8%, outer London = 5%)' and '2005-06 Standard resource' may be found in the grant letter annex on our web-site under Finance & assurance/Finance and funding.

78. The base price (a basic amount of resource for a full-time student) is calculated by dividing all the money available to fund teaching (HEFCE grant plus assumed tuition fees) by the total number of weighted FTE students in the whole sector. The base price for 2005-06 is £3,608. More information can be found in the publication 'Funding higher education in England: How HEFCE allocates its funds' (HEFCE 2005/34).

Calculation of assumed fee income

79. We calculate assumed fee income based on 2005-06 ILR F04 student data using:

- 2005-06 Estimated FTE students described in paragraph 80
- assumed fee income per FTE, shown in Table 8
- 2005-06 FTEs from the HEIFES05 re-creation.

For the purpose of this report HEFLEVEL = UG is the sum of foundation degrees (HEFLEVEL = FD) and undergraduates excluding foundation degrees (HEFLEVEL = UGX).

2005-06 Estimated FTE students

80. The headcount of students used to derive '2005-06 Estimated FTE students' is identified by selecting HEFCE fundable (HEFTYPE = HOMEF, HOMEIF) and non-ITT students (PRGITT = 0) included in the re-creation (HEFEXCL = 0) in each combination of level (HEFLEVEL) and mode (HEFMODE) for the fee levels (HEFFEELV) given in Table 8.

Table 8 Fee levels

| | HEFLEVEL HEFFEELV | |
|-------|-------------------|------------------|
| FTS | UG | 1175, 570, 0 |
| FTS | PG | 1175, 570, OTHER |
| SWOUT | UG | 570 |
| SWOUT | PG | 570, OTHER |
| PT | UG | 1175, 570, OTHER |
| PT | PG | 1175, 570, OTHER |

81. For the sandwich year-out and part-time students selected above, the '2005-06 Estimated FTE students' is calculated by halving the number of students.

Total fee income

- 82. We assume the fees for each combination of mode (HEFMODE), level (HEFLEVEL) and fee level (HEFFEELV) as given in Table 9.
- 83. For each estimated FTE we assume a fee for their mode, level and fee level. See Table 9 for a breakdown of the assumed fees. To calculate 'Total fee income' for each combination of mode and level, we sum the assumed fees for each estimated FTE within that mode and level.

Derived average fee per estimated FTE

84. We calculate the 'Derived average fee per estimated FTE' by dividing the 'Total fee income' by the '2005-06 Estimated FTE students' for each combination of mode and level.

2005-06 FTEs from the HEIFES05 re-creation

85. The students used to derive '2005-06 FTEs from HEIFES05 re-creation' can be identified for each combination of mode (HEFMODE) and level (HEFLEVEL) by selecting HEFCOL4 = 1 and HEFTYPE = HOMEF. '2005-06 FTEs from HEIFES05 re-creation' can be found by summing HEFESFTE and dividing by 100 for these students. This total will match the '2005-06 FTEs from HEIFES05 re-creation' total on the standard resource table.

2005-06 Assumed fees (average fee x HEIFES05 re-creation FTE)

86. We calculate '2005-06 Assumed fees (average fee x HEIFES05 re-creation FTE)' for each combination of mode and level by multiplying 'Derived average fee per estimated FTE' by '2005-06 FTEs from HEIFES05 re-creation.'

Table 9 Assumed fees

| HEFMODE | HEFLEVEL | HEFFEELV | Assumed fees (£) |
|---------|----------|----------|------------------|
| FTS | UG | 1175 | 1,175 |
| FTS | UG | 570 | 570 |
| FTS | UG | 0 | 0 |
| FTS | PG | 1175 | 1,175 |
| FTS | PG | 570 | 570 |
| FTS | PG | OTHER | 3,608 |
| SWOUT | UG | 570 | 1,140 |
| SWOUT | PG | 570 | 1,140 |
| SWOUT | PG | OTHER | 3,608 |
| PT | UG | 1175 | 1,140 |
| PT | UG | 570 | 1,140 |
| PT | UG | OTHER | 1,175 |
| PT | PG | 1175 | 1,140 |
| PT | PG | 570 | 1,140 |
| PT | PG | OTHER | 3,968 |