



Department
for Education

Children in need census matched to the national pupil database

Methodology document for 2012-13 census

February 2014

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1. Data sources

Children in need Census

The children in need (CIN) census collects information at child level on:

- any child referred to children's social care services within the year; and
- any cases open at the beginning of the year for whom local authorities were providing a service

The collection of the data from each local authority (LA) allows the local and national level calculation of information on the numbers of referrals and assessments carried out by children's social care services, along with the identification of the number of children assessed to be in need and the numbers who were the subject of a child protection plan.

National Pupil Database

The national pupil database (NPD) is a longitudinal database linking pupil/student characteristics to school and college learning aims and achievement information for all children in state-funded schools in England. Further information on the NPD, including a user guide, can be found on the [PLUG website](#).

Further information on requesting NPD extracts can be found on the [department's NPD website](#).

The CIN census has been matched to the NPD to understand characteristics, attainment and absence of children in need. This is the fourth year the CIN census has been matched to the NPD. For years prior to 2011-12, analysis has been shared with local authorities but not published due to data quality concerns. Due to improved data quality, this is the second year DfE has published this analysis.

Looked after children have been removed from the analysis to align with measures included in the Children's Safeguarding Performance Information Framework. Further detail on the removal of looked after children can be found on page 5.

The analysis contained in the additional tables includes local authority and national level information on:

- matching rates between the CIN census and the NPD
- prevalence of SEN and FSM
- attainment at key stage 2, key stage 4 and progression between these key stages
- absence and exclusion rates
- absence rates for children in need who were also the subject of a child protection plan

2. External matching process

The matching of the CIN census to the NPD is managed by an external contractor. The main matching key is the child's unique pupil number (UPN). A UPN is automatically allocated to each child in maintained schools in England and Wales. It is an identifier only for use in an educational context during a child's school career. Local authorities are asked to return UPNs as part of the CIN census.

A record from the CIN census is matched into the NPD if there is enough identifiable or characteristic information (mainly UPN, but also gender and date of birth) available in that record which either:

- a) identifies the child as already being in the NPD via its appearance in other data sources (which includes the school census and the early years census and previous CIN-NPD datasets) and from which the existing pupil ID can then be attributed to the new record from the 2012-13 CIN census, or
- b) involves creating a new pupil ID for the child when the child's characteristics cannot be accurately determined as currently existing in the NPD

Hence, even though a record from the CIN census has been matched into the NPD (i.e. given a pupil ID), it does not necessarily mean that it can be linked to other data in the NPD if there is no other information attributed to that pupil ID from other data sources. This is particularly relevant for the CIN census as a new child can appear, and therefore be matched into the NPD for the first time, before they start school if enough characteristic information is available in their CIN record to create a new pupil ID.

3. Internal matching process

The matching between the CIN census and the NPD was carried out using the CIN files submitted by LAs in summer 2013. However, these files do not indicate whether the children included are 'in need'. The children in need population is subsequently calculated by DfE for the statistical first release (SFR) which was published in October 2013. Therefore once the NPD was matched to CIN census files, DfE subsequently added an 'in need' indicator to this matched file. This 'in need' indicator excludes referrals with no further action and cases which are closed after initial assessment where the reason for the closure of the case being that the case was closed after assessment with no further action.

Children in need population

The SFR estimated that there were 378,600 children in need at 31 March 2013. This included estimated numbers for three local authorities. One failed to provide a return within the required timescales and two had data quality concerns. There were 367,900 children in need on the child-level CIN census file with open cases at 31 March 2013, but this reduced to 367,400 children in need when duplicates (which were identified as errors when the CIN census data was submitted, but approved by LAs) were removed from the file.

Removing looked after children

Indicators N1, N2 and N3 of the Children's Safeguarding Performance Information Framework cover the educational attainment, absence and exclusions of children in need. Comparable data is already published for looked after children, therefore they were excluded from this analysis to focus on other children in need.

The CIN census was matched to the children looked after (CLA) return (also known as SSDA903) using the LA Child ID. This is an ID assigned by the LA for each child which is unique within that LA and it should be retained from year to year. LAs use the same Child IDs for the CIN and CLA returns which allows these datasets to be linked. Children who were looked after at any point during the year were removed from the children in need dataset; however the following groups of children were retained:

- children who received only respite care during the year (these are not included in the looked after children education statistics).
- looked after children who were also the subject of a child protection plan

The removal of looked after children reduced the Children in need dataset from 367,400 to 303,200.

Duplicate records in the NPD extract

There were a very small number of duplicate records in the NPD where the same child was listed as taking key stage 4 examinations in different schools. In order to analyse the attainment of children in need at key stage 4, only one record could be used. A variable on the NPD identifies whether the record was included in the school's results in the performance tables. Cases which were included in the performance tables were selected. In the very small number of cases where all duplicate records were used in a school's results, the record with the highest attainment was selected.

The children in need dataset which had looked after children removed was then matched to the NPD extract. This allowed the characteristics, attainment and absence of children in need to be analysed.

4. Data quality

Overall, 87.9% of school age children in need matched to the NPD. There is much variation in matching rates at local authority level, from 24.8% to 100% (see Table L1). The CIN census was matched to the CLA return to remove looked after children from the children in need cohort. The matching rate was 87% and again there was much variation between local authorities, from 9% to 100%. For local authorities where the matching rate between the CIN census and the CLA return was low, there are likely to be looked after children in the children in need cohort for those local authorities.

5. Analysis

The analysis used the number of school-age (5 to 16 inclusive) children in need at 31 March 2013, with the exception of exclusions data which used the number of school-age children in need at 1 April 2012. Exclusions information runs to a much later timetable than other information from the NPD (due to the appeals process). Therefore 2011/12 exclusions information was matched to the 2012-13 CIN census. All children aged 5 to 16 years who were in need at 1 April 2012 were identified and exclusions information was provided for the previous year for this cohort.

National figures have been rounded to the nearest 100. Percentages have been derived from unrounded numerators and denominators, but have been rounded to one decimal place in the tables. Values between 1 and 5 inclusive have been suppressed and replaced with x. Some secondary suppression has also taken place, where necessary, to protect confidentiality.

The following table provides definitions for the numerators and denominators used to calculate the percentages in the tables.

Numerator(s)	Denominator	Percentage
Table L1: Matching rates		
Number of school-aged children in need at 31 March 2013 in the matched CIN-NPD dataset	Number of school-aged children in need in the CIN census at 31 March 2013	Percentage of school-aged children in need matched to the NPD
Table L2: Special educational needs (SEN)		
Number of school-aged children in need at 31 March 2013 in the matched CIN-NPD dataset with: -no SEN -SEN -at School Action -at School Action Plus -with Statements of SEN	Number of school-aged children in need at 31 March 2013 in the matched CIN-NPD dataset with SEN information	Percentage of school-aged children in need at 31 March 2013 in the matched CIN-NPD dataset with: -no SEN -SEN -at School Action -at School Action Plus -with Statements of SEN
Table L3: Free school meals (FSM) eligibility		
Number of school-aged children in need at 31 March 2013 in the matched CIN-NPD dataset and eligible for FSM	Number of school-aged children in need at 31 March 2013 in the matched CIN-NPD dataset with FSM information	Percentage of school-aged children in need at 31 March 2013 who were eligible for FSM
Table L4: Key stage 2 (KS2) attainment		
Number of school-aged children in need at 31 March 2013 in the matched CIN-NPD dataset achieving Level 4 or above in KS2: -Reading -Writing (teacher assessment) -Maths -Reading, Writing and Maths -Grammar, punctuation and spelling	Number of school-aged children in need at 31 March 2013 in the matched CIN-NPD dataset with KS2 information	Percentage of school-aged children in need at 31 March 2013 in the matched CIN-NPD dataset achieving Level 4 or above in KS2: -Reading -Writing (teacher assessment) -Maths -Reading, Writing and Maths -Grammar, punctuation and spelling
Table L5: Key stage 4 (KS4) attainment		
Number of school-aged children in need at 31	Number of school-aged children in need at 31	Percentage of school-aged children in need at

March 2013 in the matched CIN-NPD dataset achieving: -Any KS4 pass -5 A*-G grades -5 A*-G grades (inc English and Maths) -5 A*-C grades -5 A*-C grades (inc English and Maths)	March 2013 in the matched CIN-NPD dataset with KS4 information	31 March 2013 in the matched CIN-NPD dataset achieving: -Any KS4 pass -5 A*-G grades -5 A*-G grades (inc English and Maths) -5 A*-C grades -5 A*-C grades (inc English and Maths)
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Table L6: Progression between key stage 2 (KS2) and key stage 4 (KS4)¹

Number of school-aged children in need at 31 March 2013 in the matched CIN-NPD dataset, achieving: -two levels of progress in English -two levels of progress in Maths	Number of school-aged children in need at 31 March 2013 in the CIN-NPD dataset with KS2 and KS4 information in: -English -Maths	Percentage of school-aged children in need at 31 March 2013 in the matched CIN-NPD dataset, between KS2 and KS4 achieving: -two levels of progress in English -two levels of progress in Maths
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Table L7: Absence from school in the autumn and spring term 2012/13 unauthorised / authorised / overall absence levels

Number of sessions of: -unauthorised absence -authorised absence -overall absence for school-aged children in need at 31 March 2013 in the matched CIN-NPD dataset, during the autumn and spring terms of 2012/13	Total number of sessions for school-aged children in need at 31 March 2013 in the matched CIN-NPD dataset, during the autumn and spring terms of 2012/13	Absence rates for school-aged children in need at 31 March 2013 for: -unauthorised absence -authorised absence -overall absence
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Persistent absence level²

Number of school-aged children in need at 31	Number of school-aged children in need at 31	Percentage of school-aged children in need at
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¹ A full explanation of how expected progress is calculated is included in the [2013 GCSE and equivalent results including key stage 3 provisional](#) publication.

² Persistent absentees are defined as pupils who have missed 15% or more of school sessions through authorised or unauthorised absence.

March 2013 in the matched CIN-NPD dataset who were persistent absentees	March 2013 in the matched CIN-NPD dataset with absence information in a primary, secondary or special schools in January 2013	31 March 2013 in the matched CIN-NPD dataset who were persistent absentees
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Table L8: Exclusions in 2011/12

Number of school-aged children in need at 1 April 2012 in the matched CIN-NPD dataset by: -number of fixed period exclusions -number of permanent exclusions	Number of school-aged children in need at 1 April 2012 in the matched CIN-NPD dataset	Percentage of school-aged children in need at 1 April 2012 in the matched CIN-NPD dataset with: -fixed period exclusions -permanent exclusions
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Table L9: Child protection plans

unauthorised / authorised / overall absence levels

Number of sessions of: -unauthorised absence -authorised absence -overall absence for school-aged children in need at 31 March 2013 who were also the subject of a child protection plan in 2012-13 in the matched CIN-NPD dataset, during the autumn and spring terms of 2012/13	Total number of sessions for school-aged children in need at 31 March 2013 who were also the subject of a child protection plan in 2012-13 in the matched CIN-NPD dataset, during the autumn and spring terms of 2012/13	Absence rates for school-aged children in need at 31 March 2013 who were the subject of a child protection plan in 2012-13 for: -unauthorised absence -authorised absence -overall absence
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Persistent absence levels

Number of school-aged children in need at 31 March 2013 in the matched CIN-NPD dataset who were also the subject of a child protection plan in 2012-13, who were persistent absentees	Number of school-aged children in need at 31 March 2013 in the matched CIN-NPD dataset who were also the subject of a child protection plan in 2012-13 and were in a primary, secondary or special school in January 2013	Percentage of children in need at 31 March 2013 in the matched CIN-NPD dataset who were the subject of a child protection plan, who were persistent absentees
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6. Related publications

Looked after children

[Outcomes for children looked after](#) includes educational attainment, Special Educational Needs (SEN), exclusions from school, health, development of children aged under 5, education and employment after year 11, offending and substance misuse. Data is published at national and local authority level on the outcomes for children who have been looked after continuously for at least 12 months at 31 March 2013.

All children

[Special Educational Needs in England: January 2013](#) reports on children with SEN and free school meal eligibility.

Provisional key stage 2 results for 2012/13 can be found in [National curriculum assessments at key stage 2 in England](#).

Attainment of pupils at key stage 4 along with progression between key stages 2 and 4 in the 2012/13 academic year can be found in [2013 GCSE and equivalent results including key stage 3 provisional](#).

[Pupil absence in schools in England: autumn 2012 and spring 2013](#) reports levels of overall, authorised and unauthorised absence by school type and reason, with summary statistics on persistent absentees.

Information about exclusions from school can be found in [Permanent and fixed period exclusions from schools in England: 2011 to 2012 academic year](#).



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