

Travel Flows in Derbyshire & the City of Derby

Key Facts & Figures from the 2011 Census

October 2015

Introduction

Commuting patterns are a useful indication of the dynamics of an area's economy, including the labour market and where residents choose to live and work. It also illustrates the interaction and external influence of areas that surround the County and beyond.

This report highlights the main travel flows to and from Derbyshire County, and each of the constituent districts in a series of maps showing the commuting patterns for each area at low levels of geography.

Methodology

The information within this report is based upon origin - destination data taken from the 2011 Census.¹ Origin - destination data is also known as flow data and shows the flow of people from one place to another. While this information is freely available at District level and above, as a local authority Derbyshire County Council can also access data at output area level.² This is the lowest geographical level at which census estimates are provided, and has been used to produce all of the maps within the report.

Self-containment information is based upon the number of residents that also work within the area. To provide alignment with the data released from the 2001 Census, this includes people that stated they 'mainly work from home' or at 'no fixed place'.

Self-containment plus inflows into an area closely aligns to the number of jobs in an area, while self-containment plus outflows equals the number of residents aged 16 or over in employment.

¹ Further information on origin-destination data can be found at <http://www.ons.gov.uk/ons/guide-method/census/2011/census-data/2011-censusprospectus/release-plans-for-2011-census-statistics/subsequent-releases-of-specialist-products/flow-data/index.html>.

² Further information on output areas can be found at <http://www.ons.gov.uk/ons/guide-method/geography/beginner-s-guide/census/output-area--oas-/index.html>.

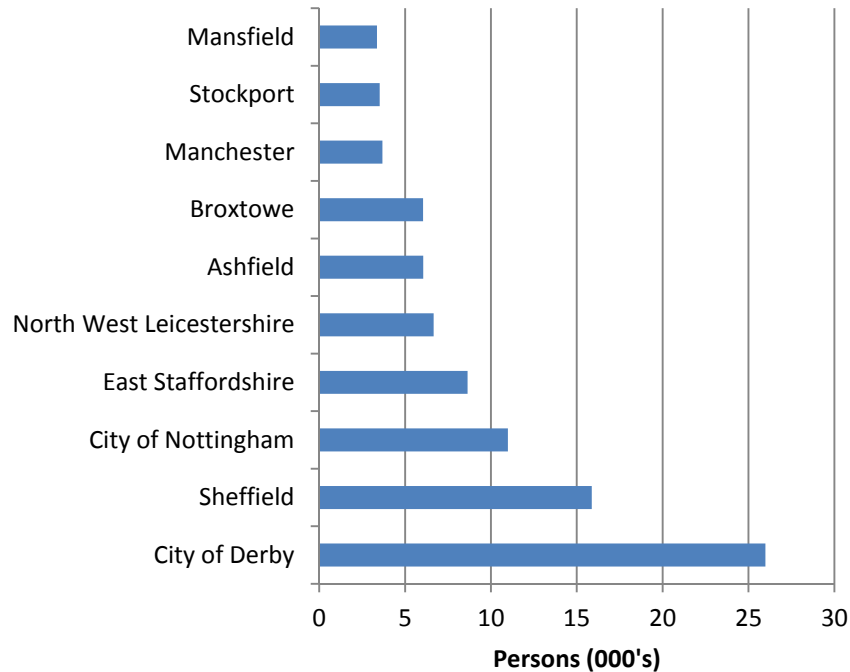
1. Derbyshire

Derbyshire is a net exporter of employees.

- **Self-containment** – 245,523 (66%) of Derbyshire residents in employment work within the County; 271,508 (73%) work within Derbyshire and the City of Derby.
- **Outflows** – 128,436 (34%) of Derbyshire residents in employment commute outside of the area; 25,985 (20%) of these residents commute into the City of Derby.
- **Inflows** – 72,869 residents of other areas commute into Derbyshire to work (accounting for around 23% of jobs within the County); 12,627 (17%) of these workers commute into Derbyshire from the City of Derby.

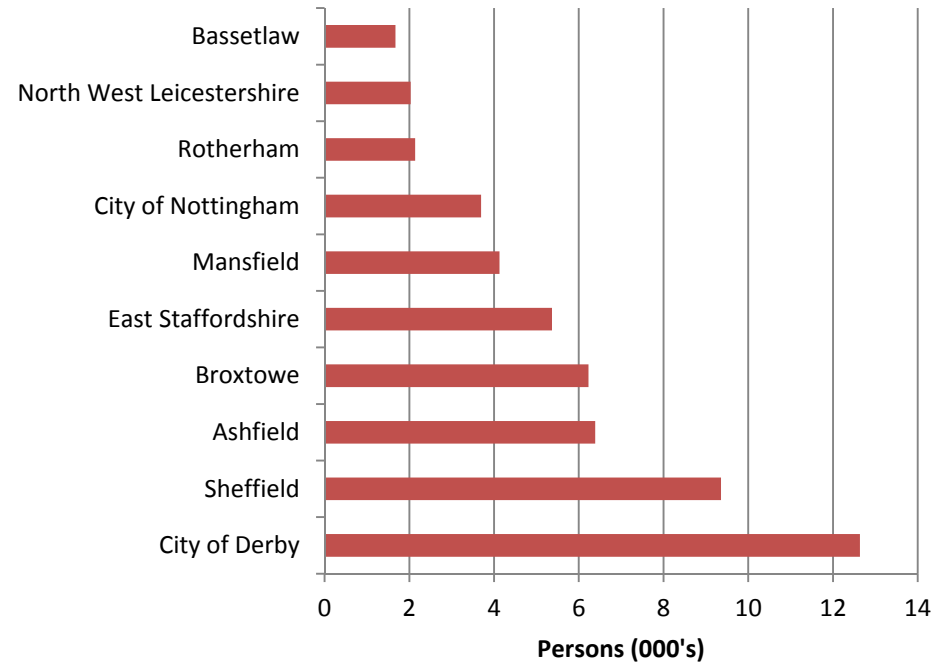
Outflows

Top 10 areas where Derbyshire residents commute to

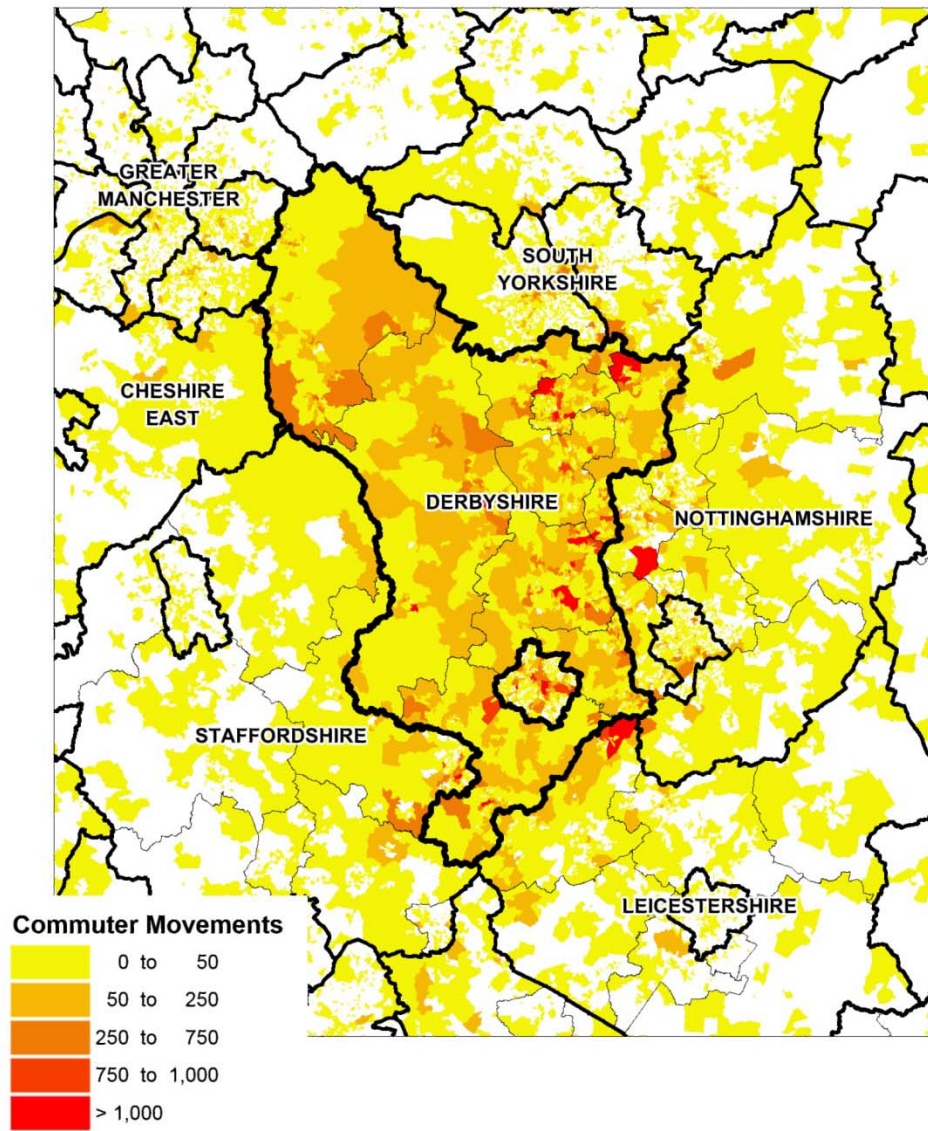


Inflows

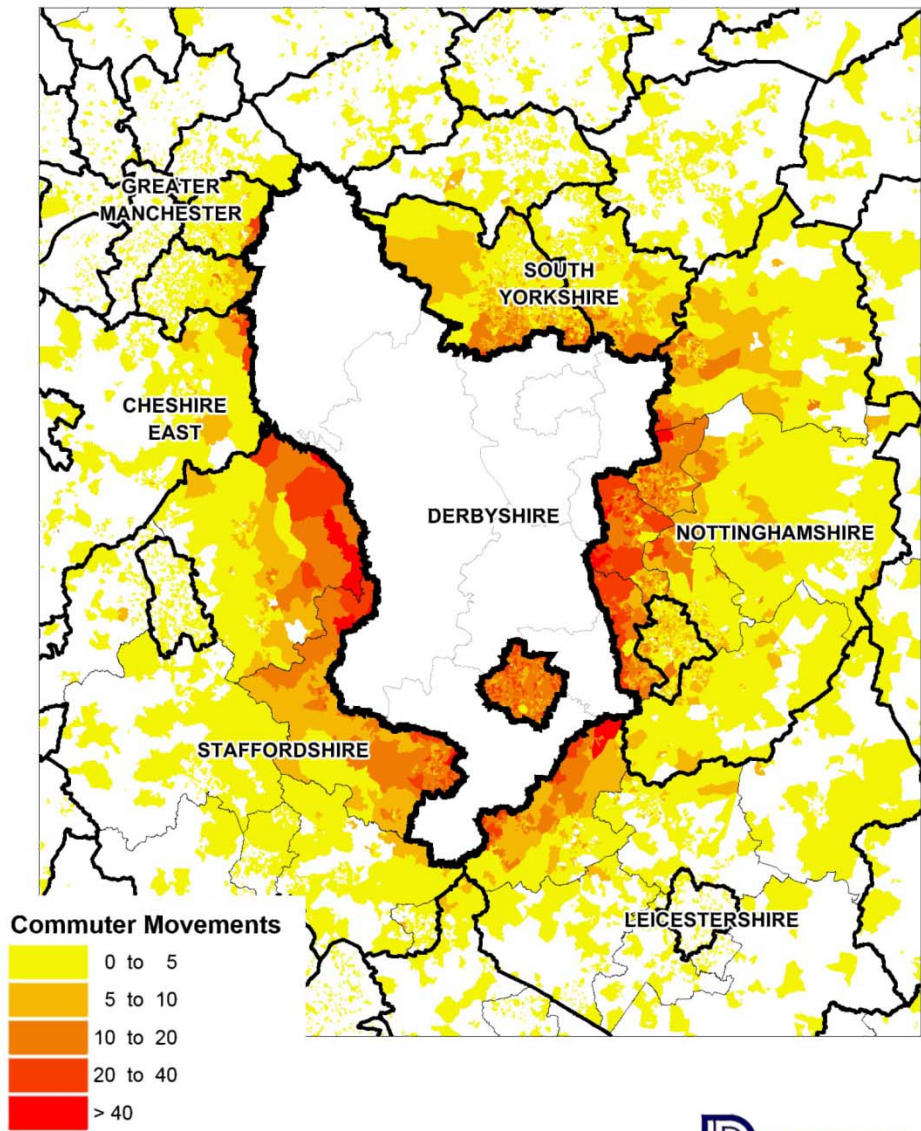
Top 10 areas where Commuters into Derbyshire come from



Workplace Destinations of Derbyshire Residents



Residence of Commuters into Derbyshire

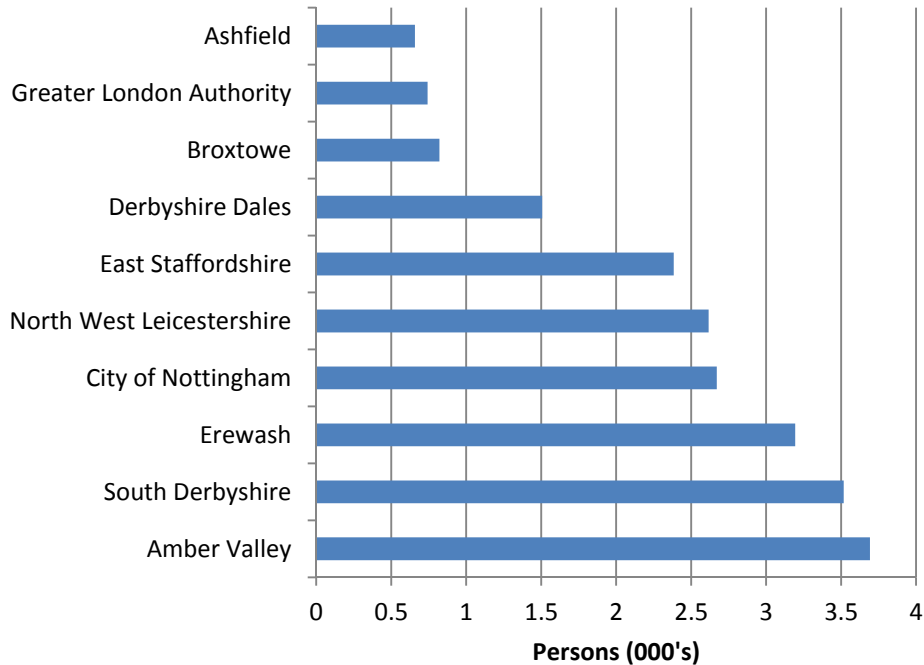


2. City of Derby

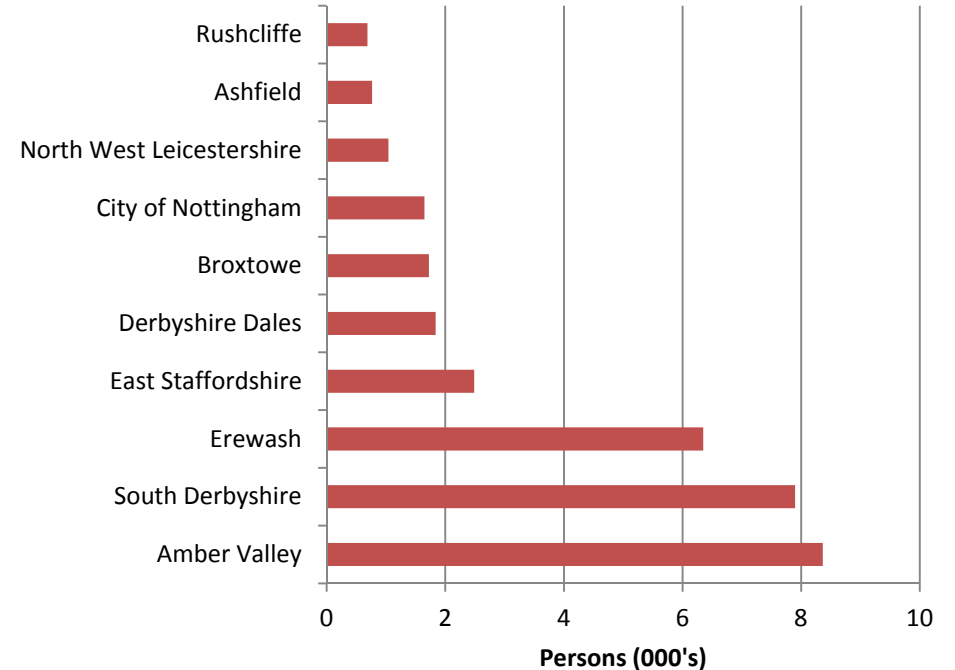
The City of Derby is a net importer of employees.

- **Self-containment** – 82,683 (73%) of City of Derby residents in employment work within the area; 95,320 (84%) work within Derbyshire and the City of Derby.
- **Outflows** – 30,161 (27%) Derby residents in employment commute outside of the area; 12,637 (11%) Derby residents commute to one of the Derbyshire Districts.
- **Inflows** – 41,670 residents of other areas commute into Derby to work (accounting for around 34% of jobs within the City); 25,985 (62%) of these workers commute into Derby from one of the Derbyshire Districts.

Outflows
Top 10 areas where Derby residents commute to

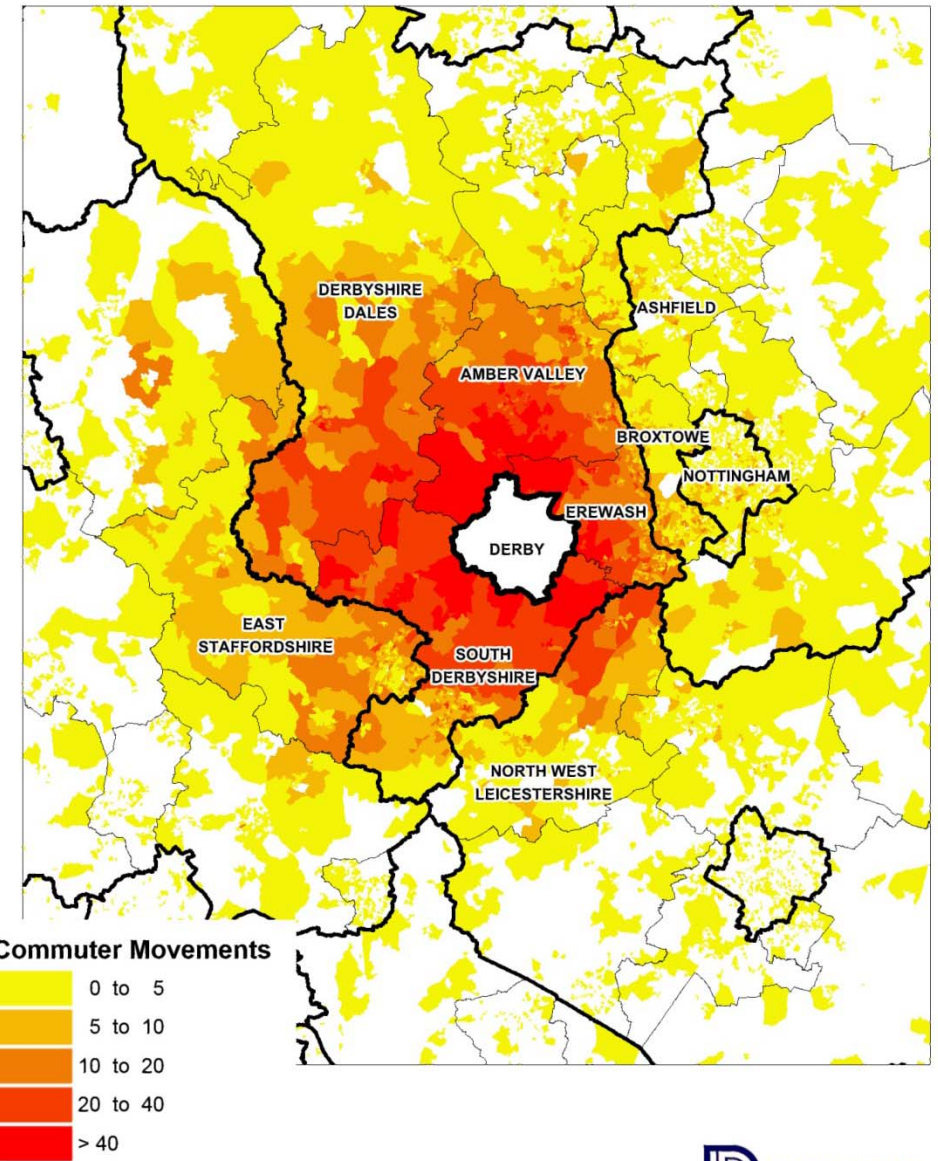
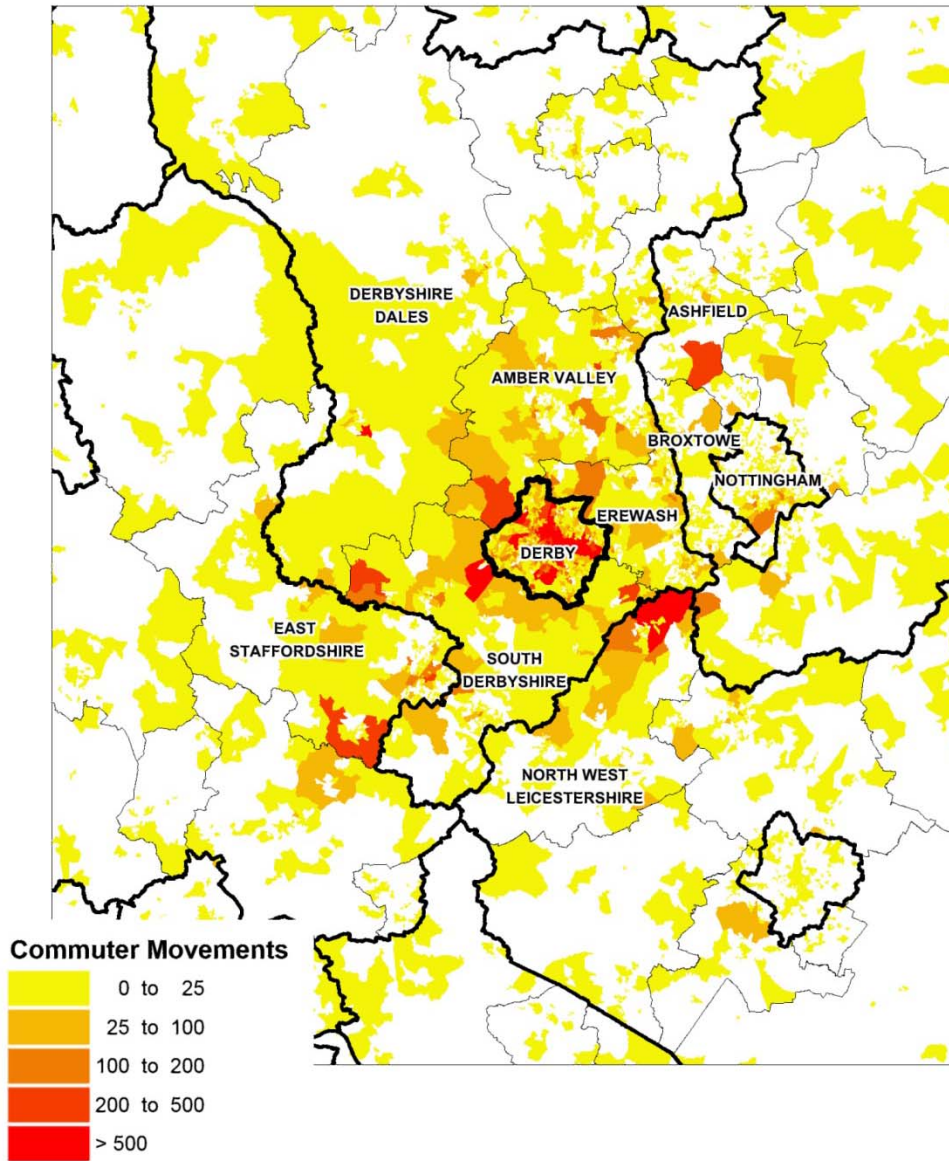


Inflows
Top 10 areas where Commuters into Derby come from



Workplace Destinations of Derby City Residents

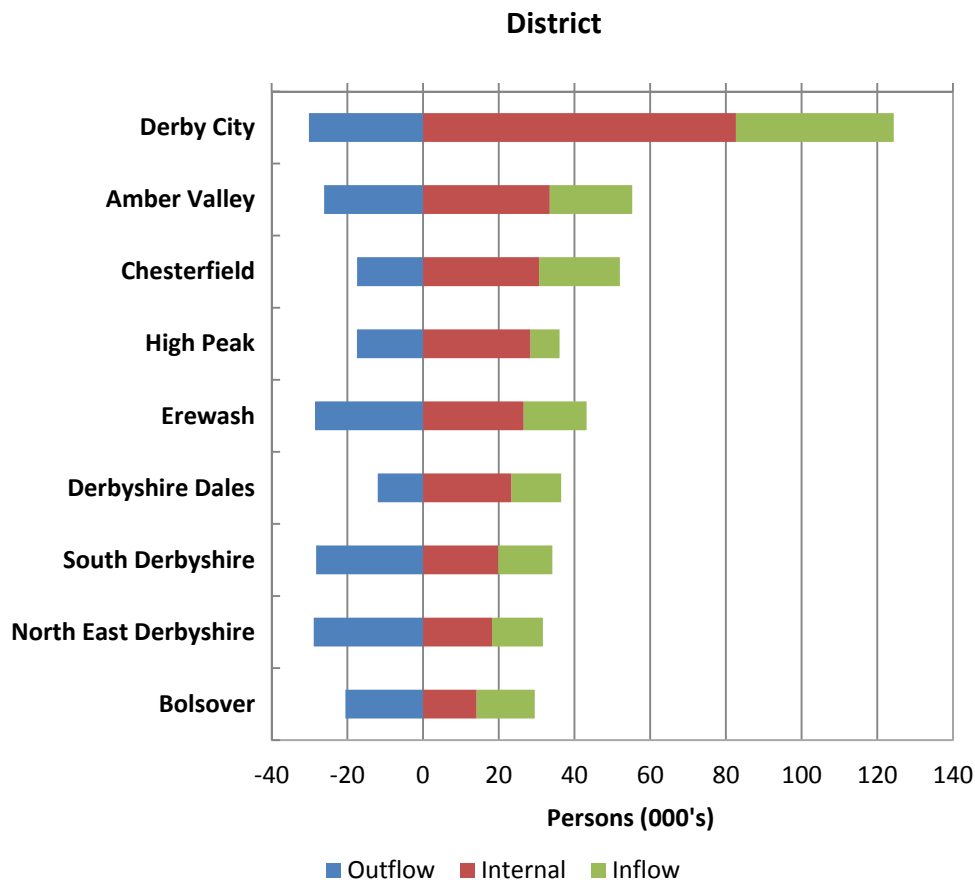
Residence of Commuters into Derby City



3. Derbyshire travel pattern summary by District

- **Jobs** – Self-containment (the number of people that live and work in the area) plus inflows (the number of people commuting into the area) closely aligns with the number of jobs in each District.
- **Employment** – Self-containment plus outflows (the number of people commuting outside of the area) equals the number of residents aged 16 or over in employment.

Self-containment, inflows and outflows for each Derbyshire District



Outflow	Self-containment	Inflow	Jobs	Employment
30,161	82,683	41,670	124,353	112,844
26,124	33,501	21,778	55,279	59,625
17,437	30,658	21,349	52,007	48,095
17,471	28,391	7,663	36,054	45,862
28,536	26,576	16,623	43,199	55,112
11,969	23,385	13,084	36,469	35,354
28,253	19,850	14,306	34,156	48,103
28,891	18,241	13,414	31,655	47,132
20,495	14,181	15,315	29,496	34,676

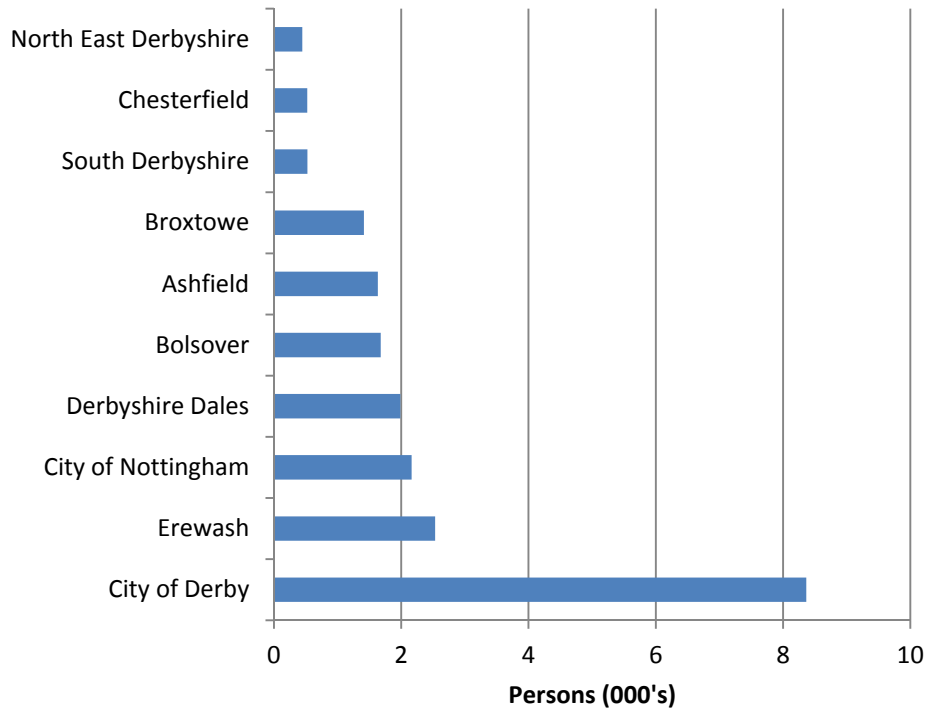
4. Amber Valley

Amber Valley is a net exporter of employees.

- **Self-containment** – 33,501 (56%) of Amber Valley residents in employment work within the District; 49,631 (83%) work within Derbyshire and the City of Derby.
- **Outflows** – 26,124 (44%) Amber Valley residents commute outside of the District. 8,364 (14%) to Derby, 7,766 (13%) to a surrounding Derbyshire District and 9,994 (17%) into other areas.
- **Inflows** – 21,778 residents of other areas commute into Amber Valley to work (accounting for around 39% of jobs within the District). This includes 3,692 (17%) from Derby, 9,004 (41%) from other Derbyshire Districts and 9,082 (42%) from other areas.

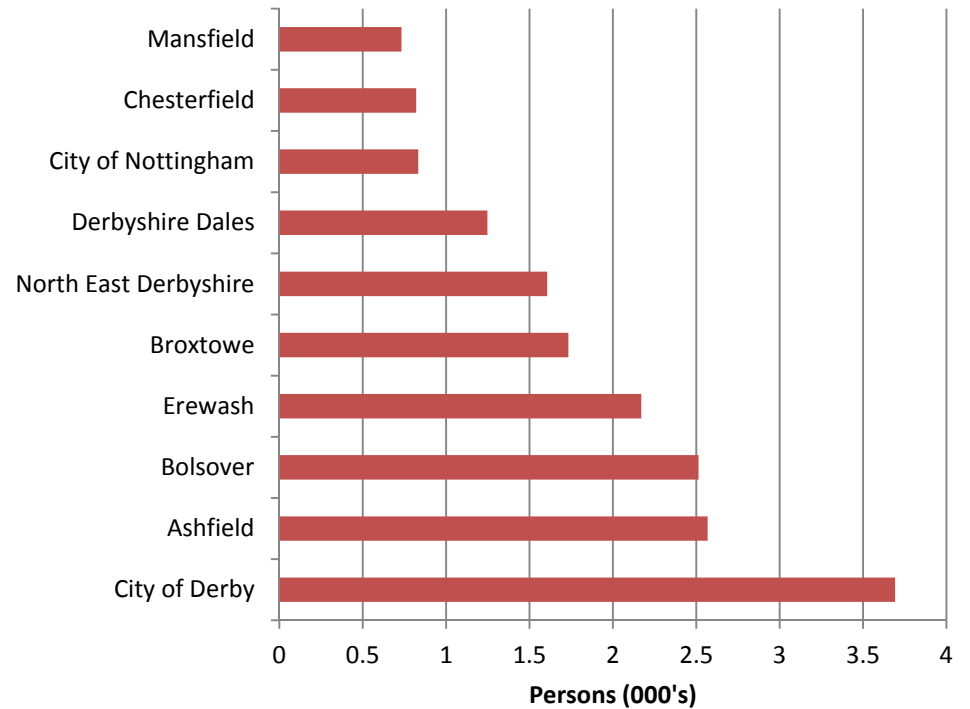
Outflows

Top 10 areas where Amber Valley residents commute to



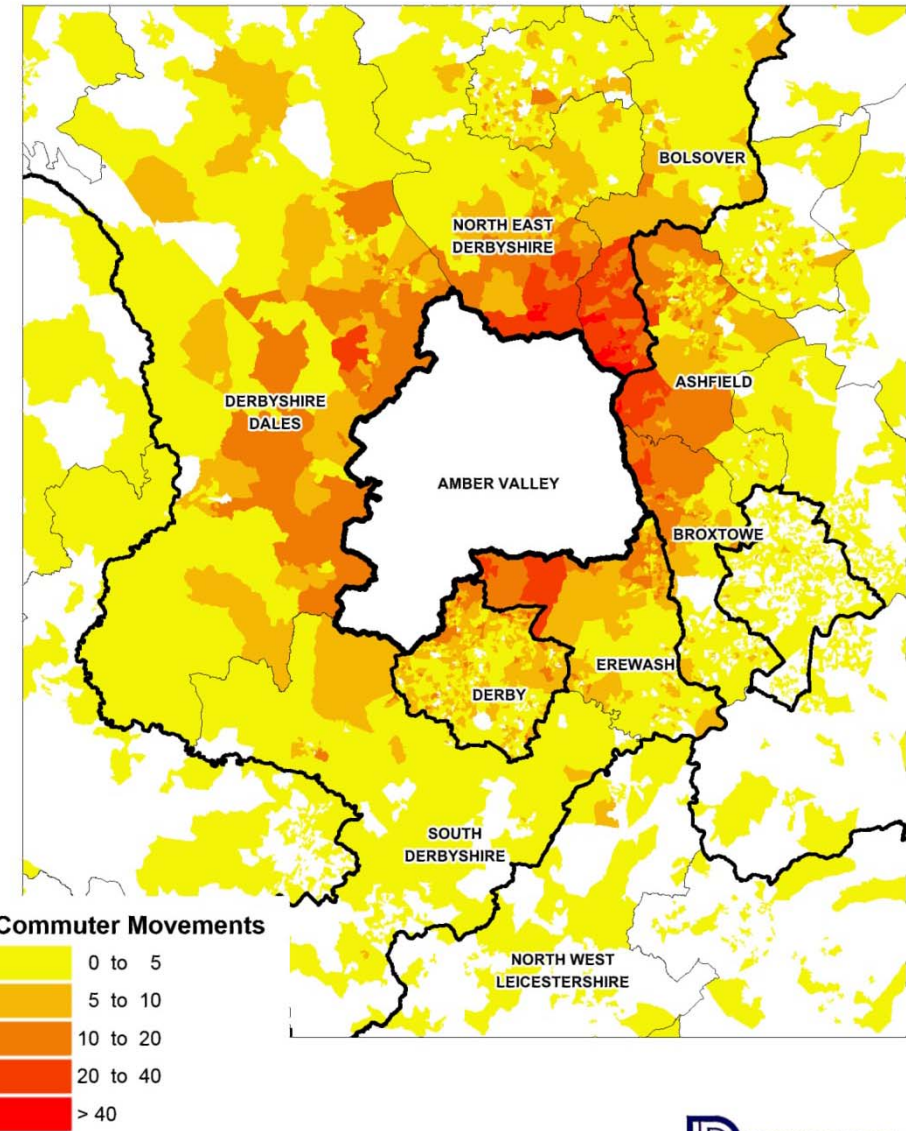
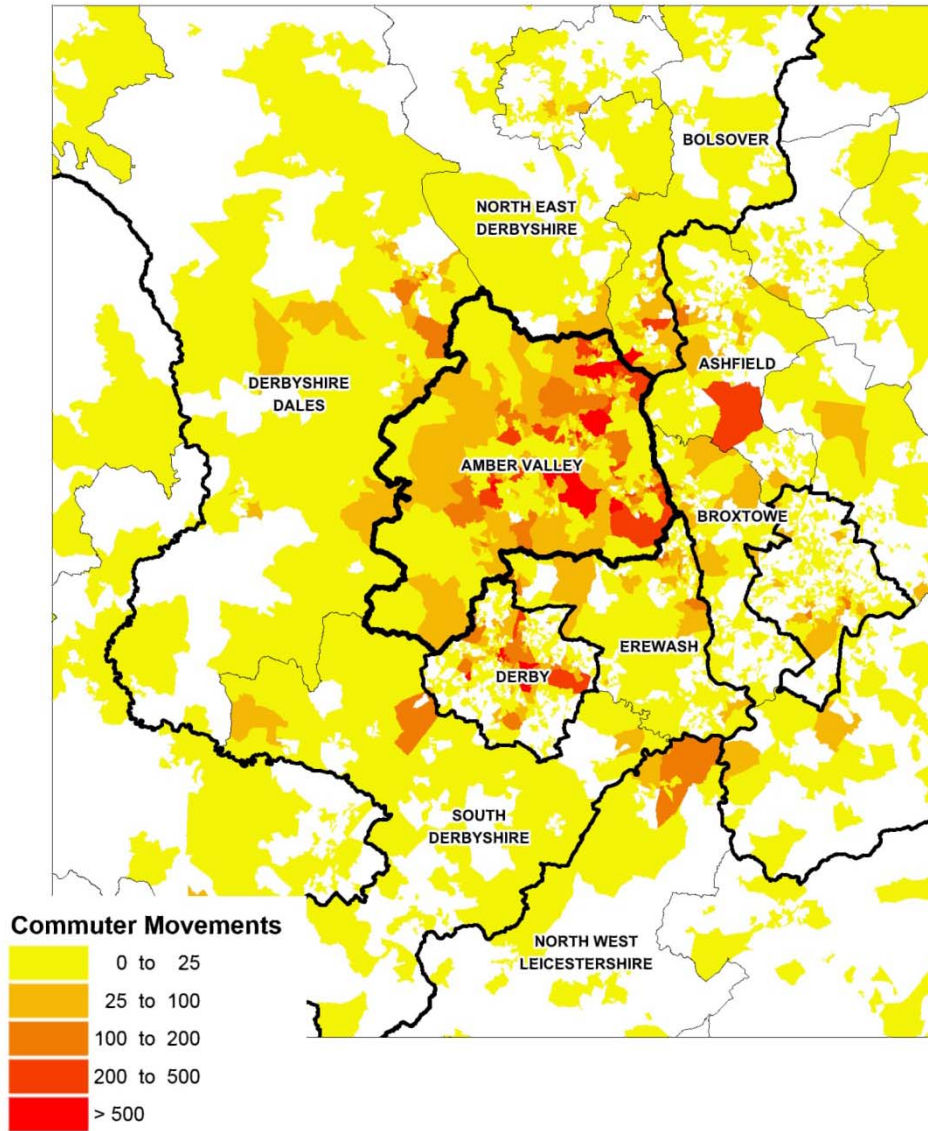
Inflows

Top 10 areas where Commuters into Amber Valley come from



Workplace Destinations of Amber Valley Residents

Residence of Commuters into Amber Valley



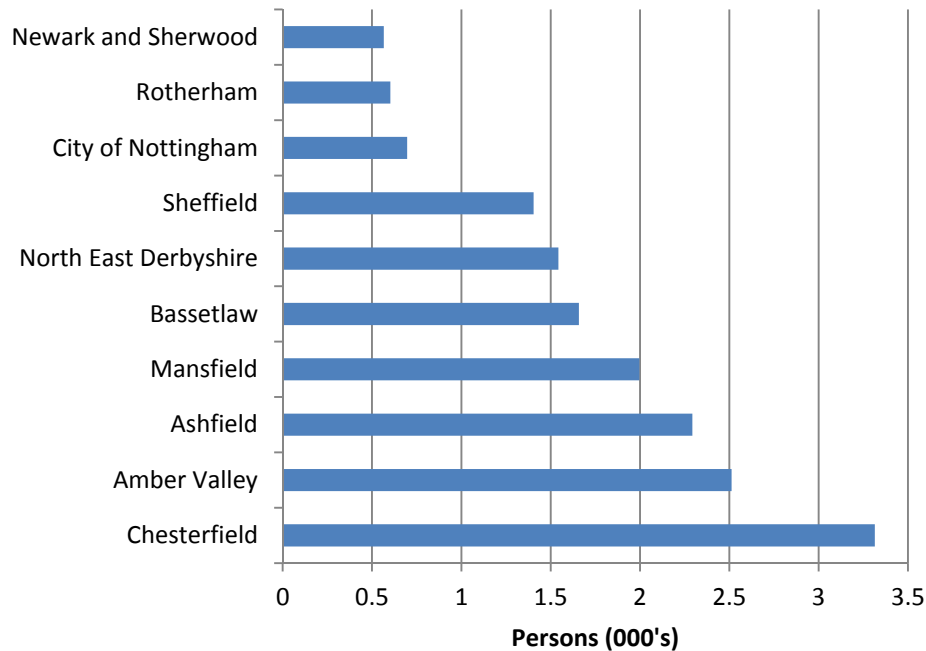
© Crown Copyright & Database Rights 2015. Ordnance Survey 100023251.

5. Bolsover

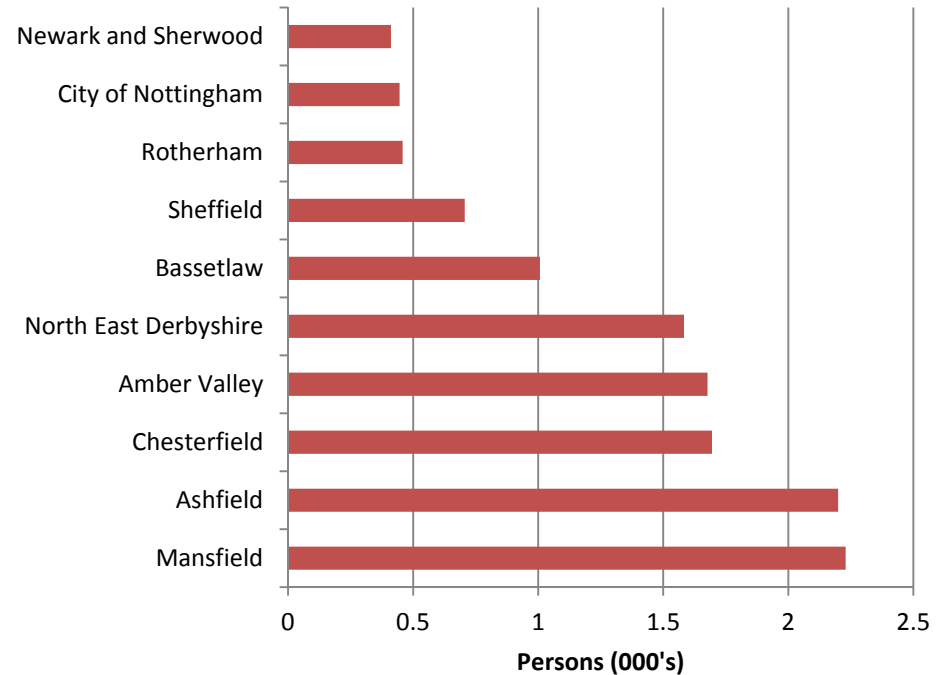
Bolsover is a net exporter of employees.

- **Self-containment** – 14,181 (41%) of Bolsover residents in employment work within the District; (66%) work within Derbyshire and the City of Derby.
- **Outflows** – 20,495 (59%) Bolsover residents commute outside of the District. 518 (1%) to Derby, 8,209 (24%) to a surrounding Derbyshire District and 11,768 (34%) into other areas.
- **Inflows** – 15,315 residents of other areas commute into Bolsover to work (accounting for around 52% of jobs within the District). This includes 325 (2%) from Derby, 5,526 (36%) from other Derbyshire Districts and 9,464 (62%) from other areas.

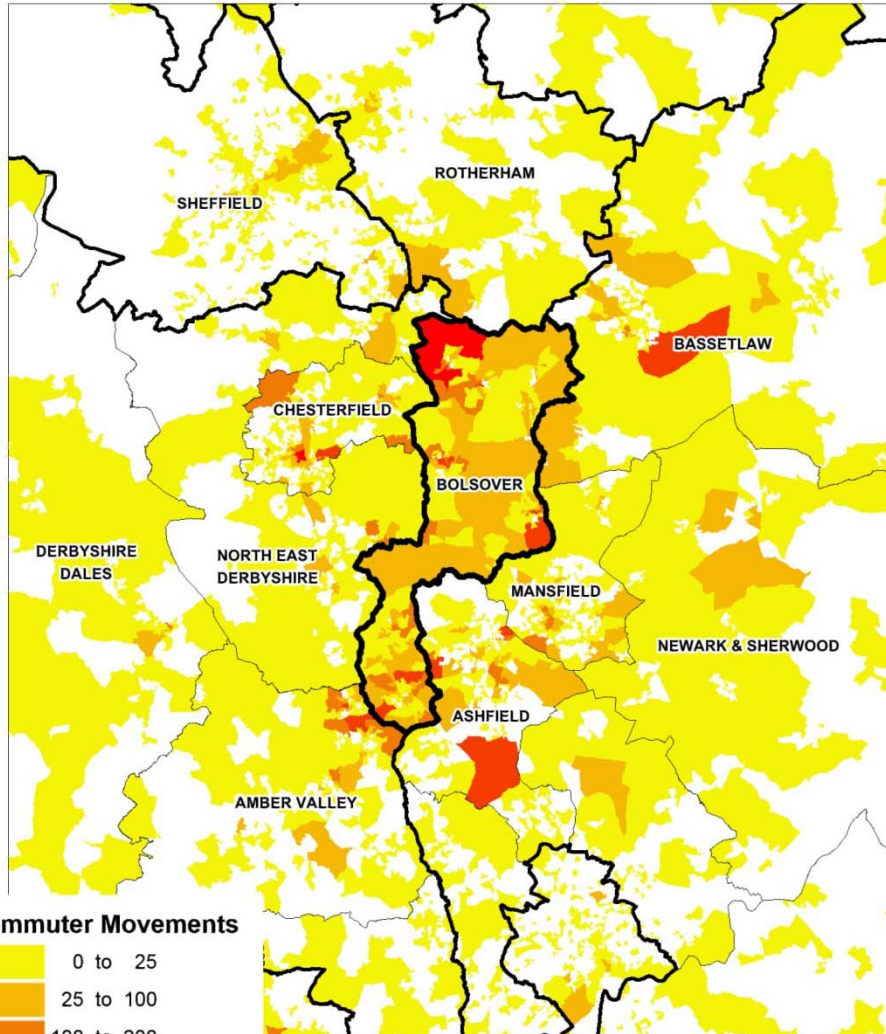
Outflows
Top 10 areas where Bolsover residents commute to



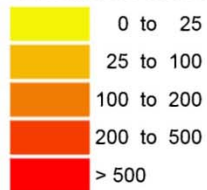
Inflows
Top 10 areas where Commuters into Bolsover come from



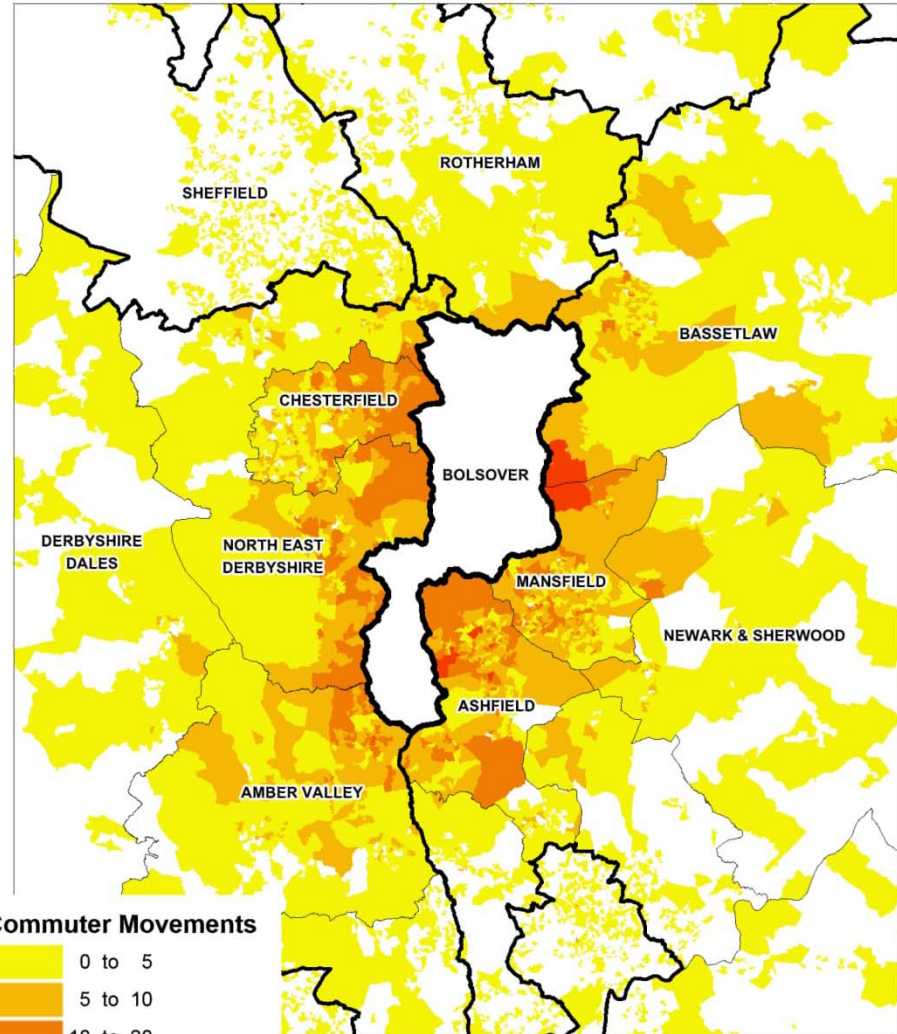
Workplace Destinations of Bolsover Residents



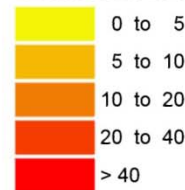
Commuter Movements



Residence of Commuters into Bolsover



Commuter Movements



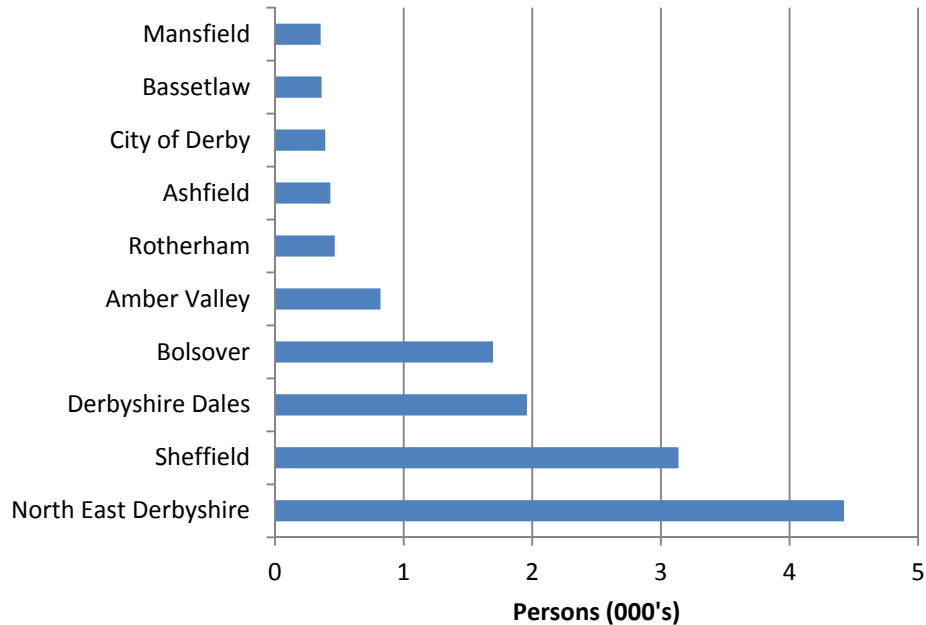
6. Chesterfield

Chesterfield is a net Importer of employees.

- **Self-containment** – 30,658 (64%) of Chesterfield residents in employment work within the District; (84%) work within Derbyshire and the City of Derby.
- **Outflows** – 17,437 (36%) Chesterfield residents commute outside of the District. 391 (1%) to Derby, 9,292 (19%) to a surrounding Derbyshire District and 7,754 (16%) into other areas.
- **Inflows** – 21,349 residents of other areas commute into Chesterfield to work (accounting for around 41% of jobs within the District). This includes 253 (1%) from Derby, 13,813 (65%) from other Derbyshire Districts and 7,283 (34%) from other areas.

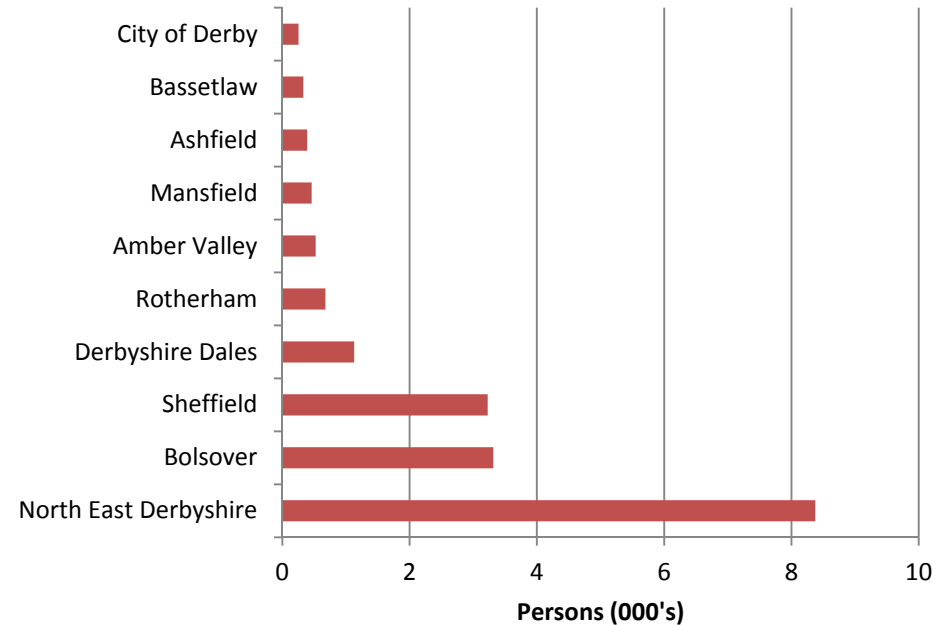
Outflows

Top 10 areas where Chesterfield residents commute to

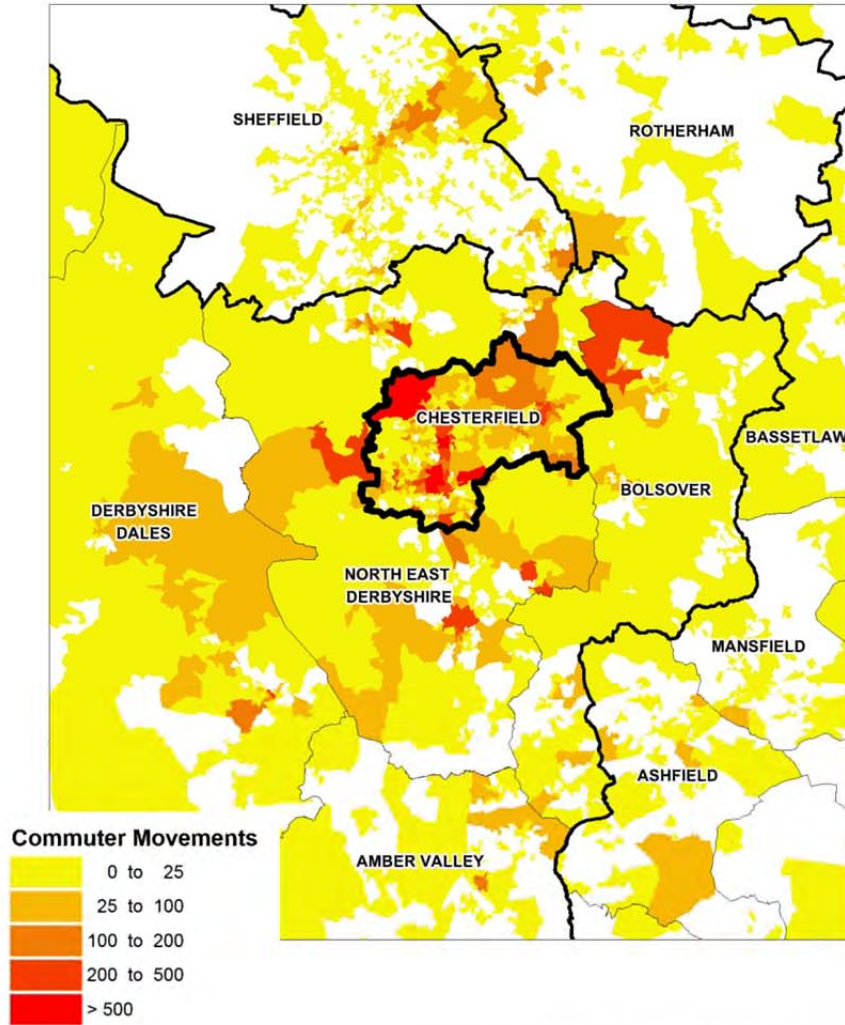


Inflows

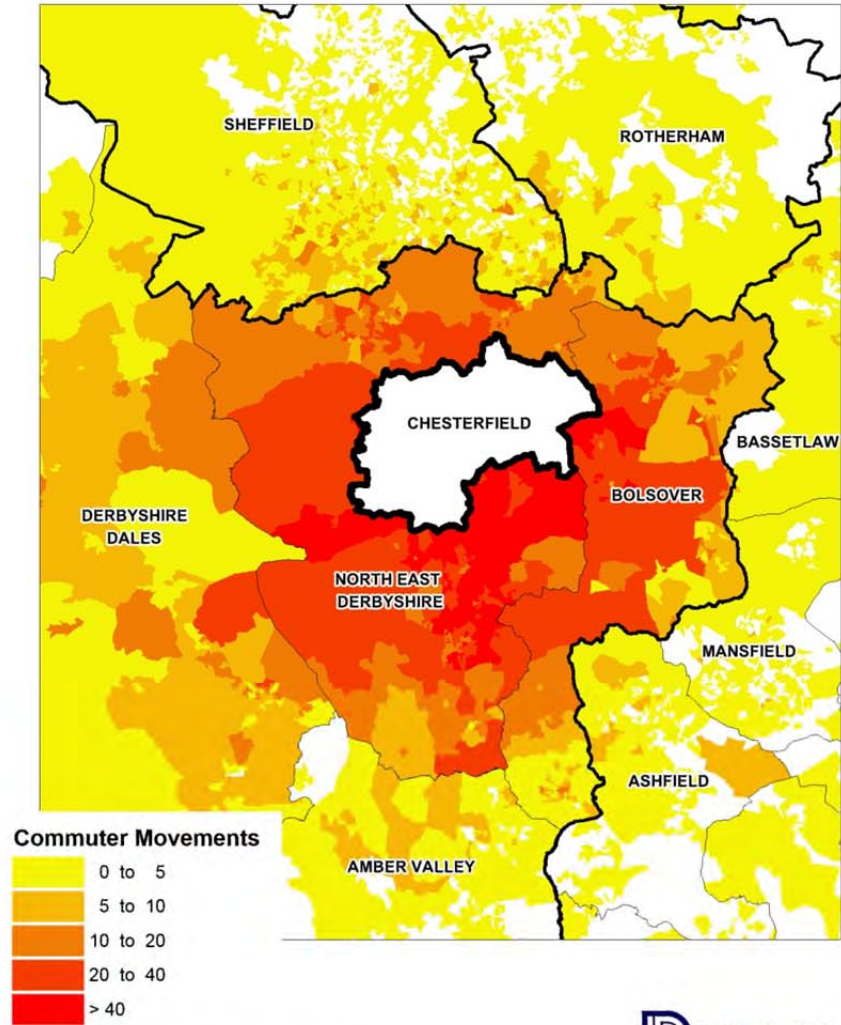
Top 10 areas where Commuters into Chesterfield come from



Workplace Destinations of Chesterfield Residents



Residence of Commuters into Chesterfield



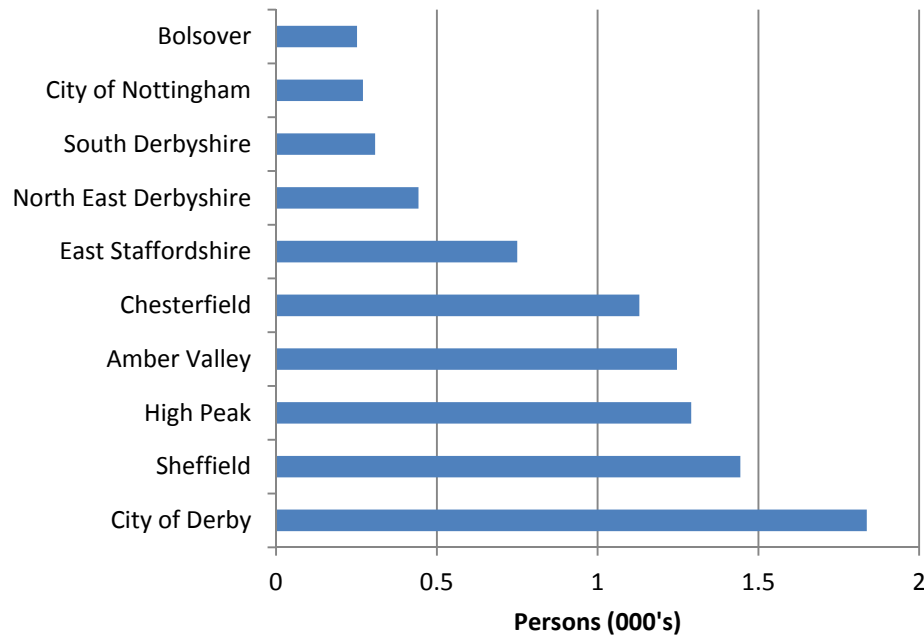
7. Derbyshire Dales

Derbyshire Dales is a net Importer of employees.

- **Self-containment** – 23,385 (66%) of Derbyshire Dales residents in employment work within the District; (85%) work within Derbyshire and the City of Derby.
- **Outflows** – 11,969 (34%) Derbyshire Dales residents commute outside of the District. 1,837 (5%) to Derby, 4,827 (14%) to a surrounding Derbyshire District and 5,305 (15%) into other areas.
- **Inflows** – 13,084 residents of other areas commute into Derbyshire Dales to work (accounting for around 36% of jobs within the District). This includes 1,507 (12%) from Derby, 7,844 (60%) from other Derbyshire Districts and 3,733 (29%) from other areas.

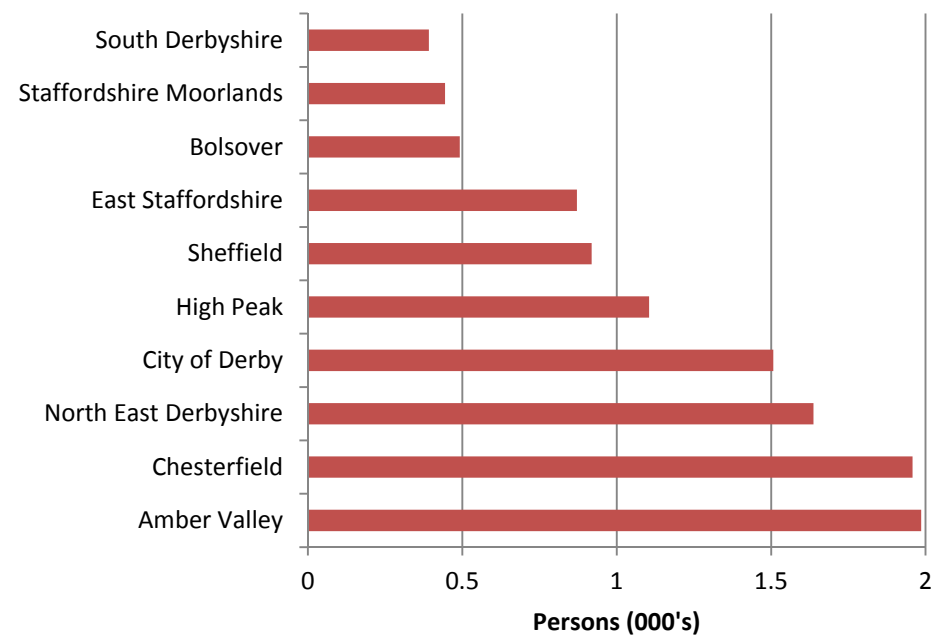
Outflows

Top 10 areas where Derbyshire Dales residents commute to

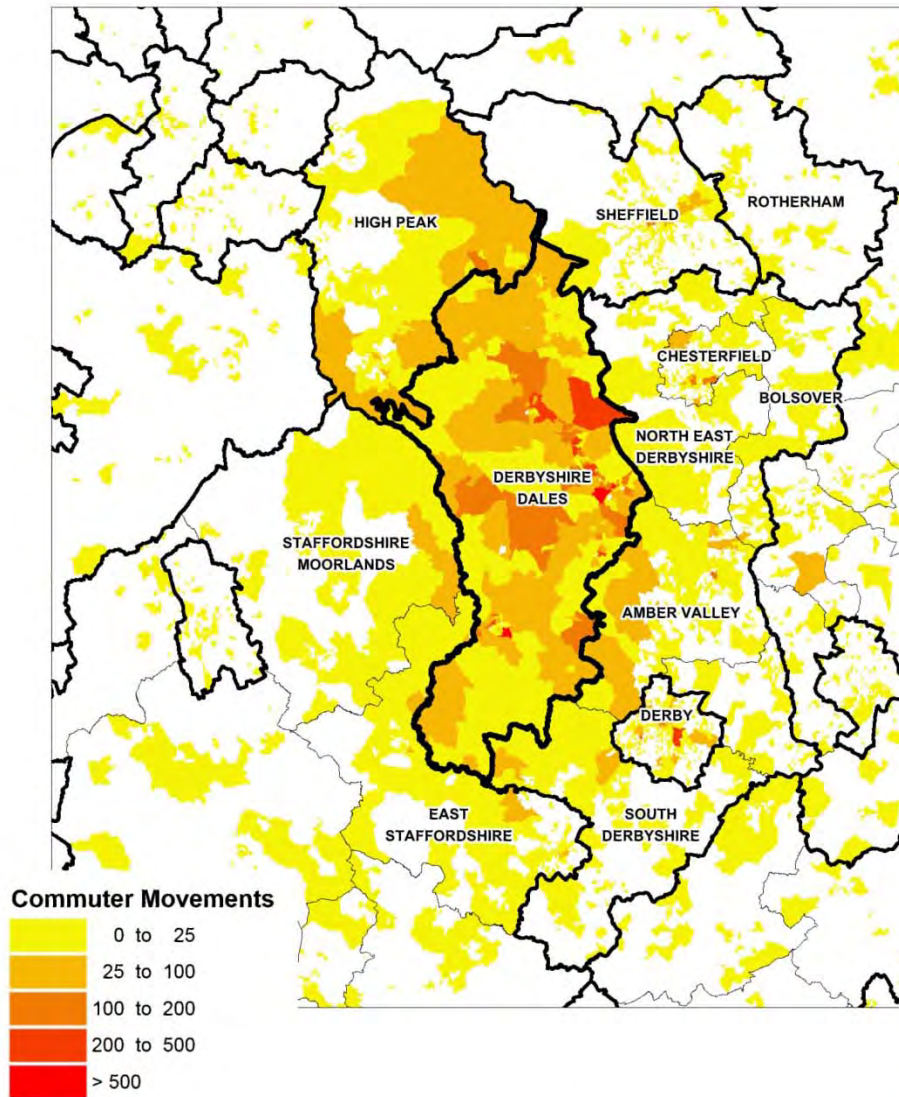


Inflows

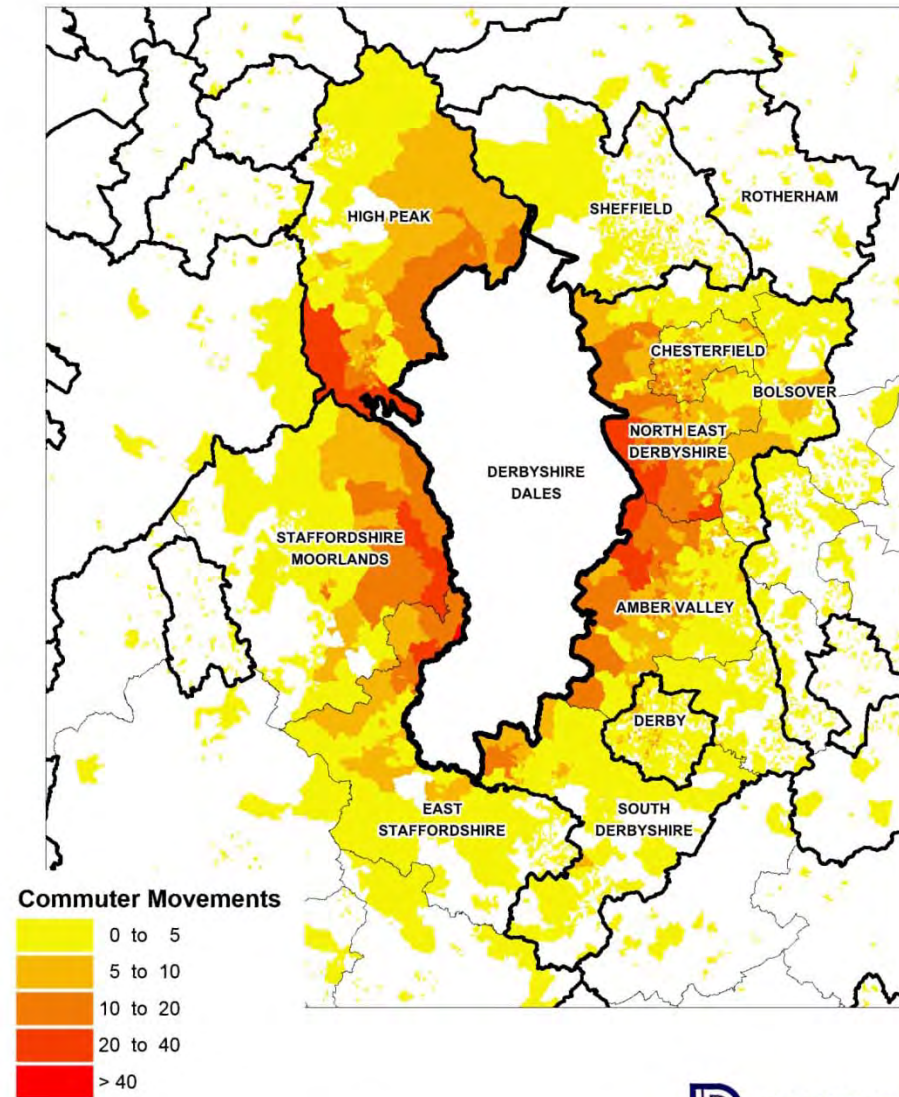
Top 10 areas where Commuters into Derbyshire Dales come from



Workplace Destinations of Derbyshire Dales Residents



Residence of Commuters into Derbyshire Dales

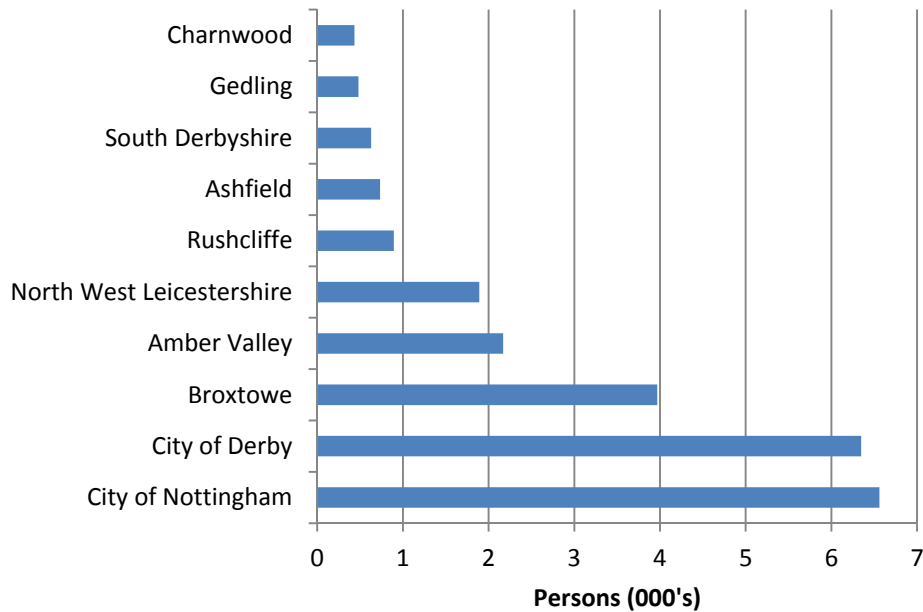


8. Erewash

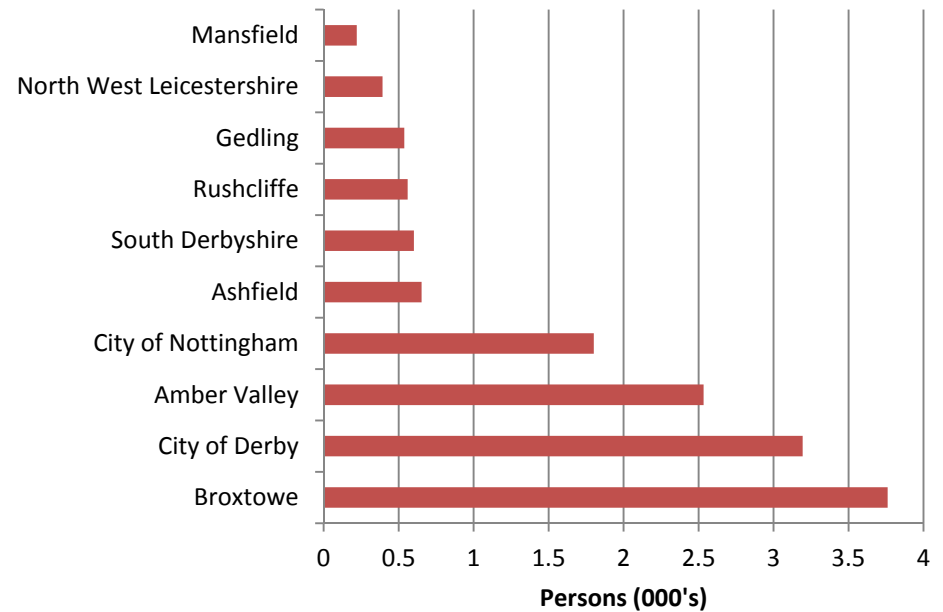
Erewash is a net exporter of employees.

- **Self-containment** – 26,575 (48%) of Erewash residents in employment work within the District; (66%) work within Derbyshire and the City of Derby.
- **Outflows** – 28,536 (52%) Erewash residents commute outside of the District. 6,348 (12%) to Derby, 3,447 (6%) to a surrounding Derbyshire District and 18,741 (34%) into other areas.
- **Inflows** – 16,623 residents of other areas commute into Erewash to work (accounting for around 38% of jobs within the District). This includes 3,194 (19%) from Derby, 3,701 (22%) from other Derbyshire Districts and 9,728 (59%) from other areas.

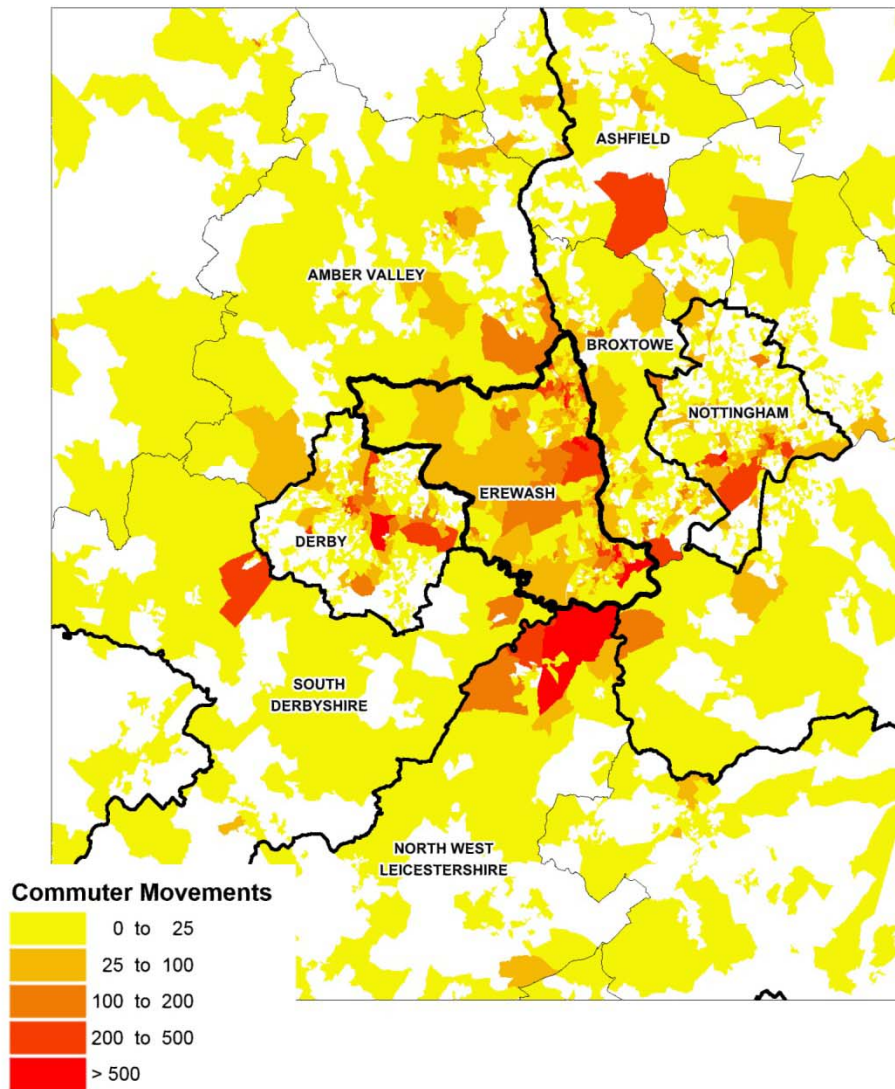
Outflows
Top 10 areas where Erewash residents commute to



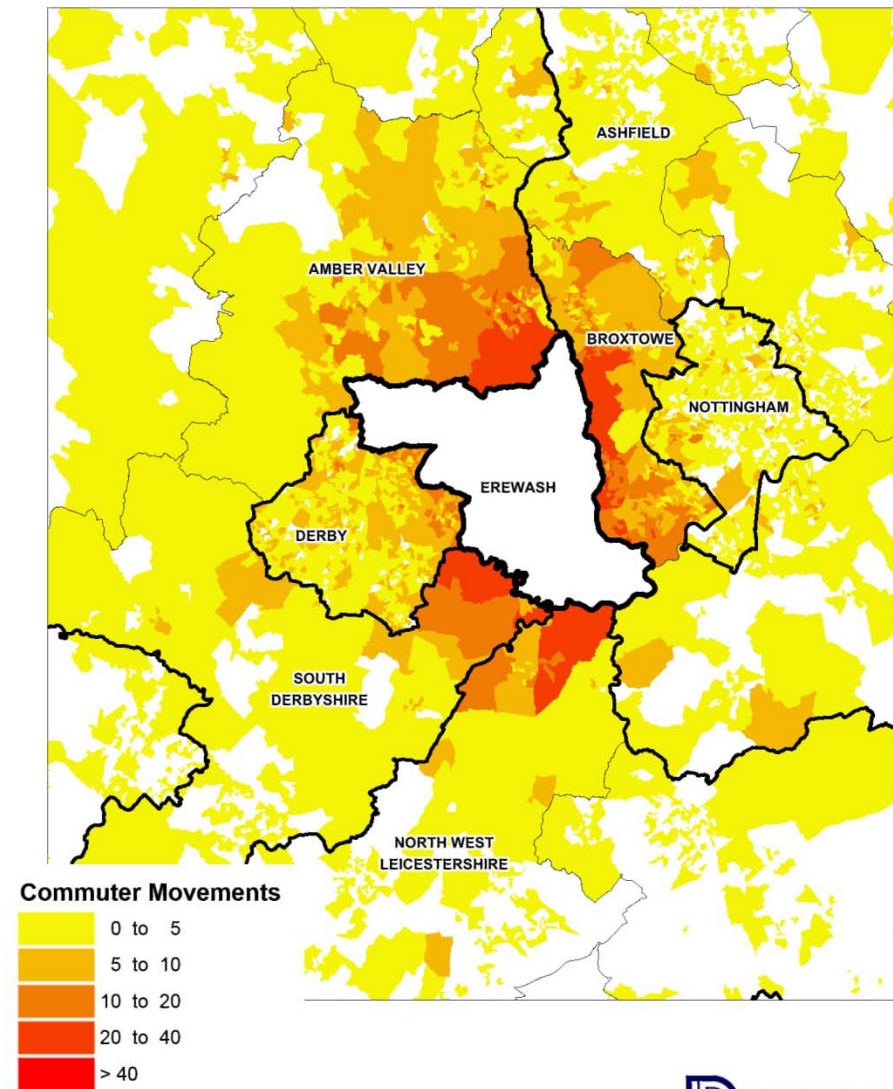
Inflows
Top 10 areas where Commuters into Erewash come from



Workplace Destinations of Erewash Residents



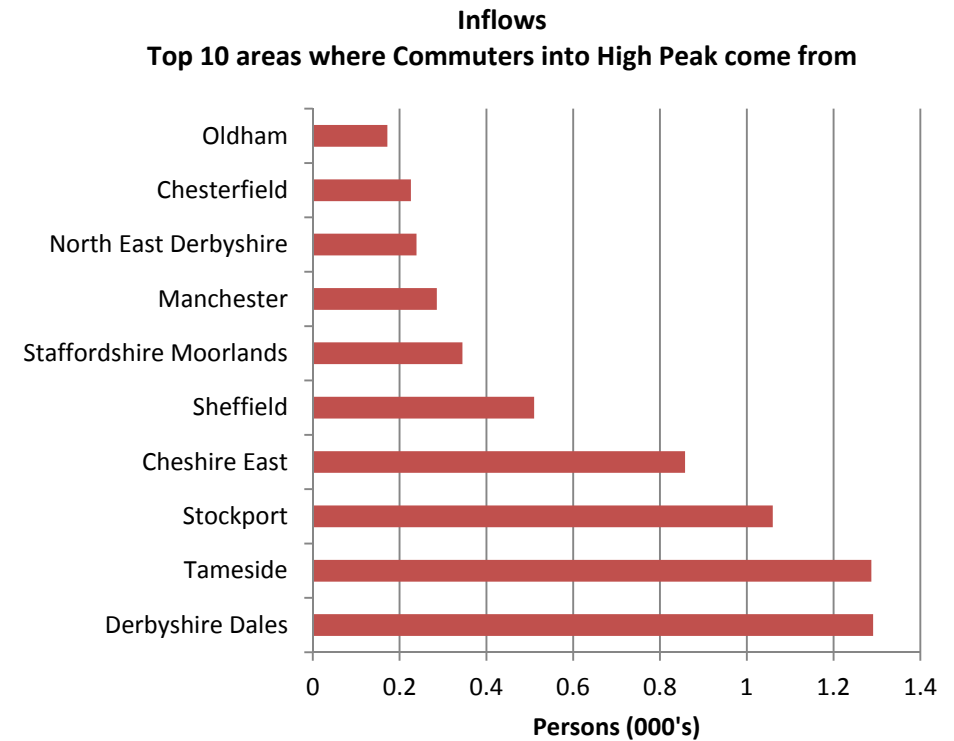
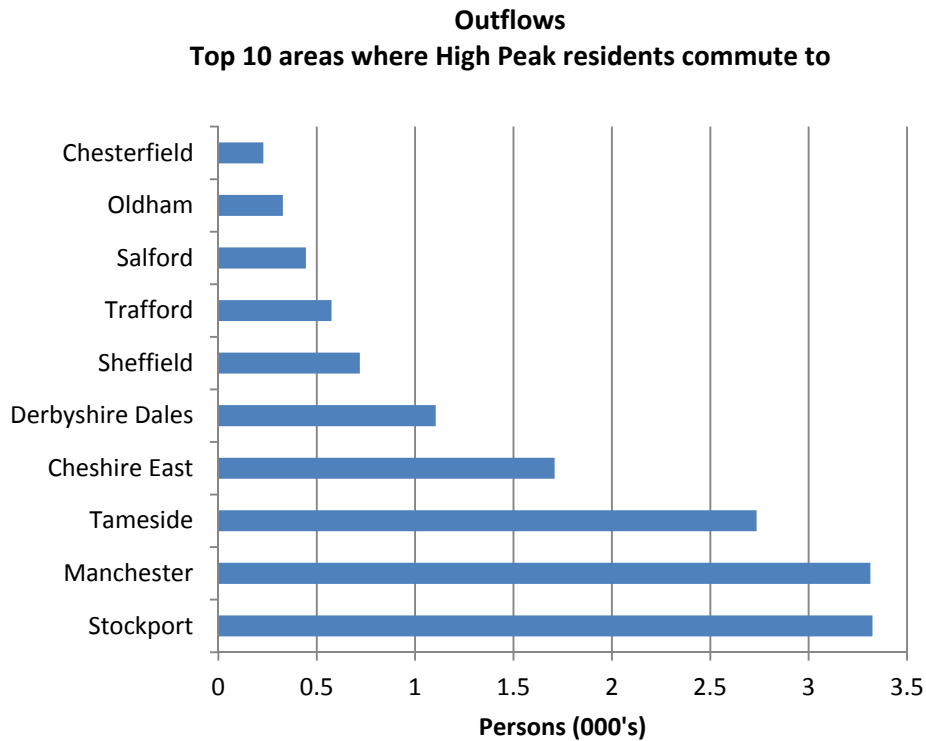
Residence of Commuters into Erewash



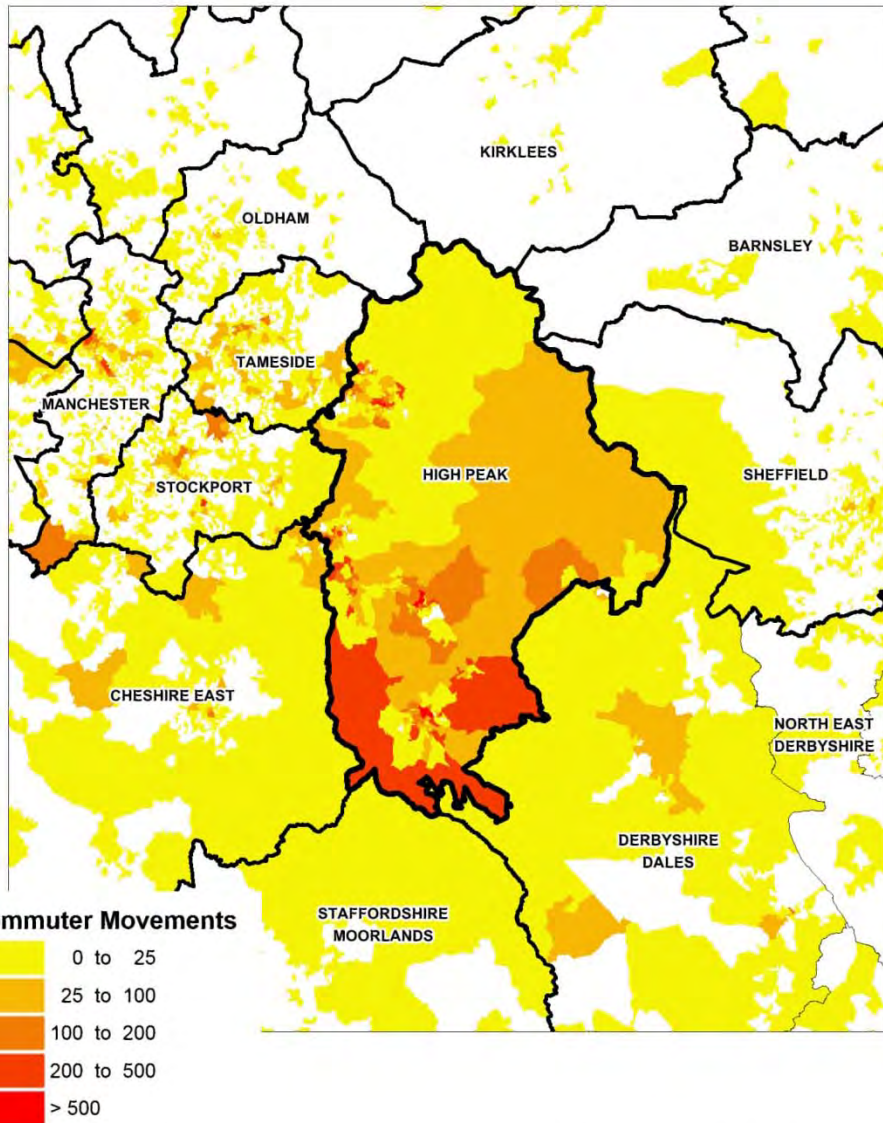
9. High Peak

High Peak is a net exporter of employees.

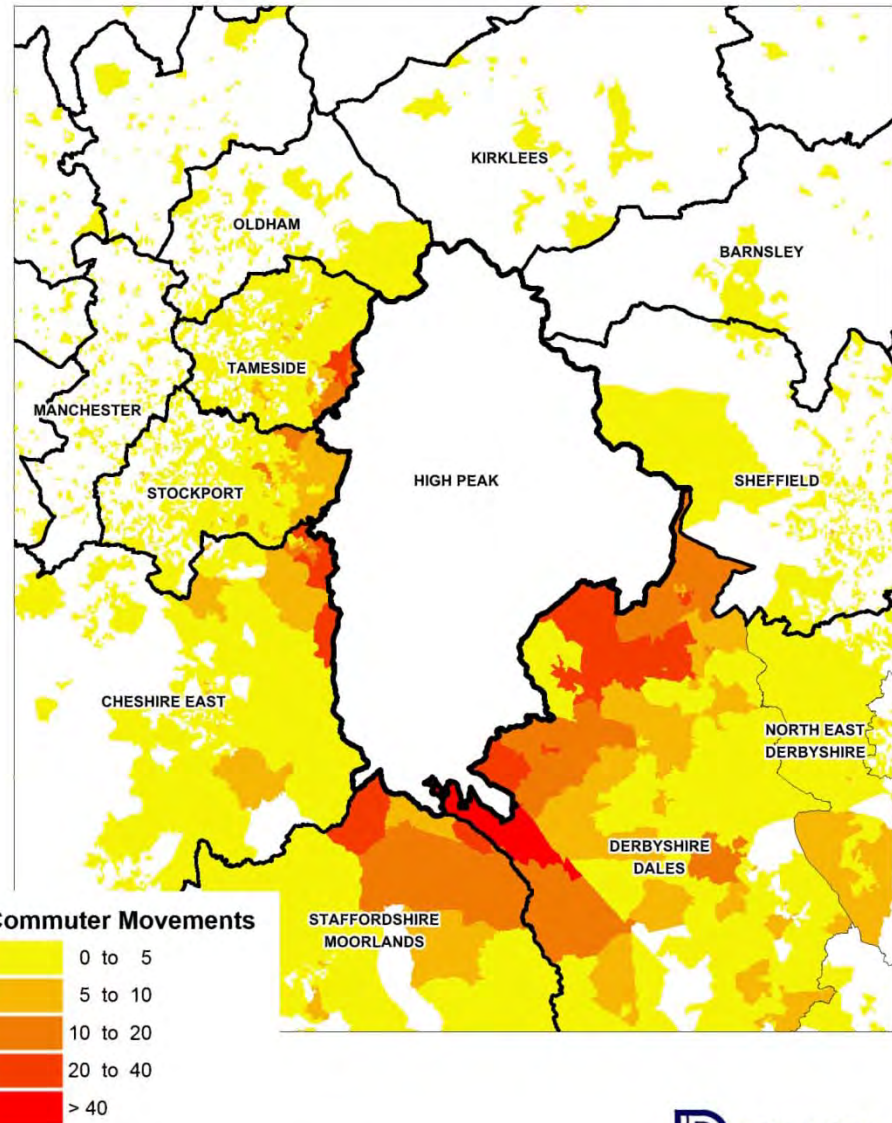
- **Self-containment** – 28,391 (62%) of High Peak residents in employment work within the District; (66%) work within Derbyshire and the City of Derby.
- **Outflows** – 17,471 (38%) High Peak residents commute outside of the District. 130 (<1%) to Derby, 1,684 (4%) to a surrounding Derbyshire District and 15,657 (34%) into other areas.
- **Inflows** – 7,663 residents of other areas commute into High Peak to work (accounting for around 21% of jobs within the District). This includes 49 (1%) from Derby, 1,960 (26%) from other Derbyshire Districts and 5,654 (74%) from other areas.



Workplace Destinations of High Peak Residents



Residence of Commuters into High Peak



© Crown Copyright & Database Rights 2015. Ordnance Survey 100023251.

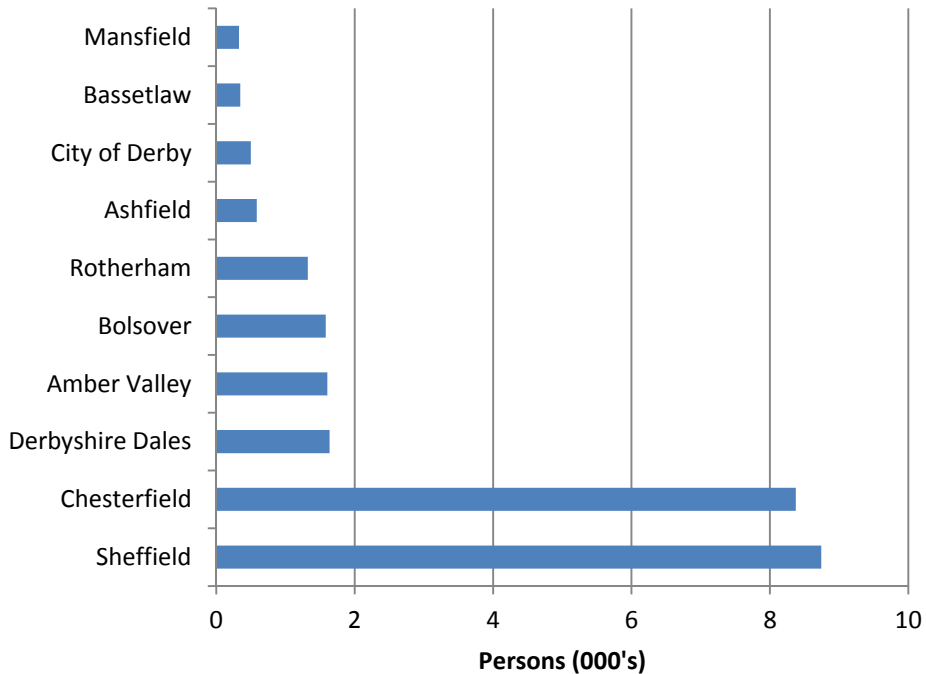
10. North East Derbyshire

North East Derbyshire is a net exporter of employees.

- **Self-containment** – 18,241 (39%) of North East Derbyshire residents in employment work within the District; (69%) work within Derbyshire and the City of Derby.
- **Outflows** – 28,891 (61%) North East Derbyshire residents commute outside of the District. 500 (1%) to Derby, 13,674 (29%) to a surrounding Derbyshire District and 14,717 (31%) into other areas.
- **Inflows** – 13,414 residents of other areas commute into North East Derbyshire to work (accounting for around 42% of jobs within the District). This includes 100 (1%) from Derby, 7,110 (53%) from other Derbyshire Districts and 6,204 (46%) from other areas.

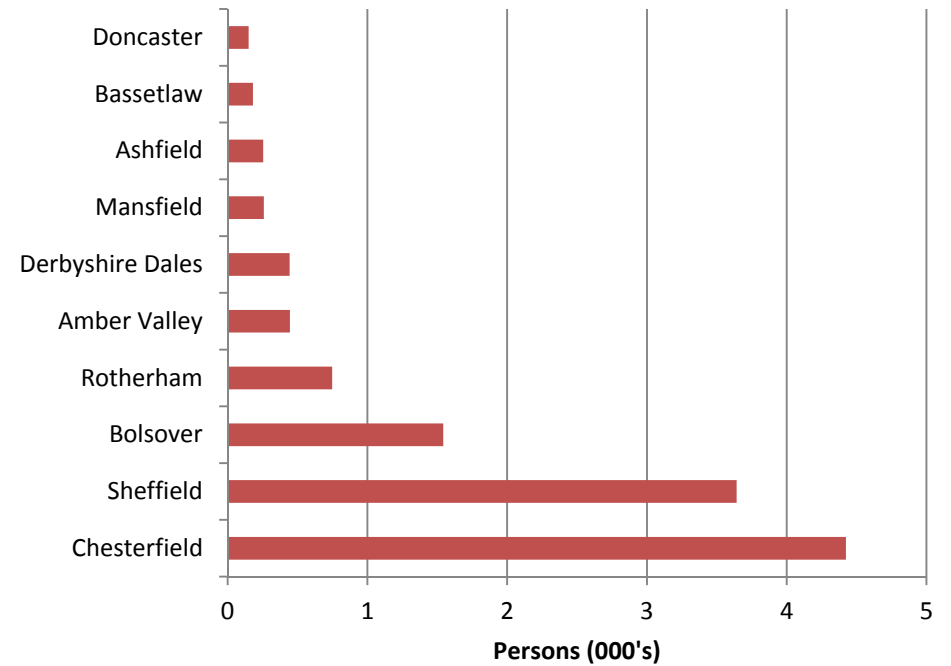
Outflows

Top 10 areas where North East Derbyshire residents commute to



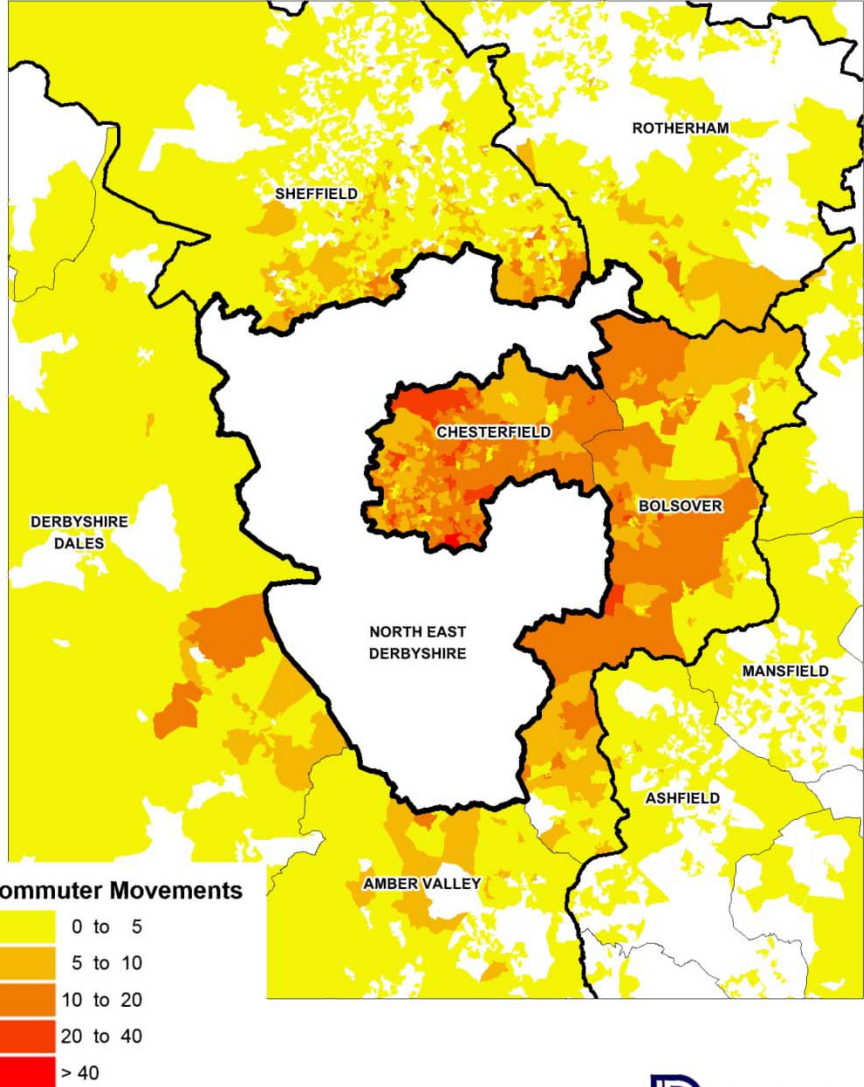
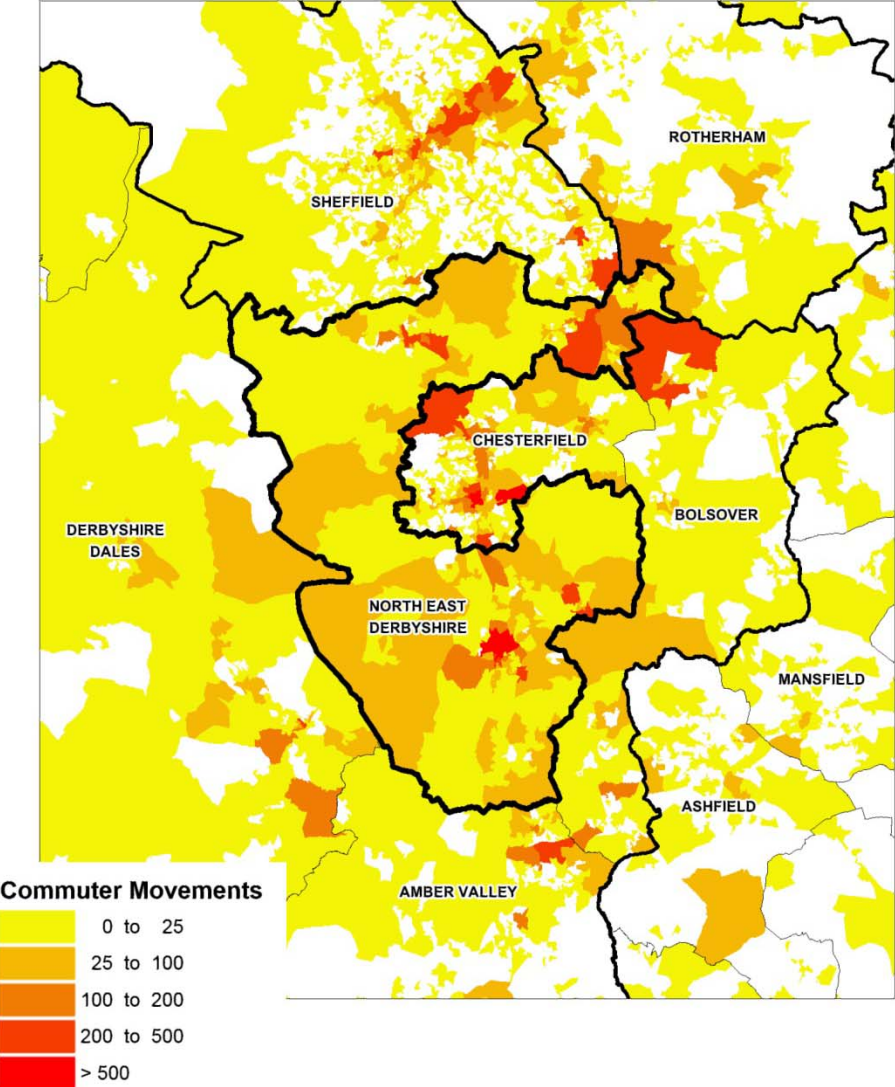
Inflows

Top 10 areas where Commuters into North East Derbyshire come from



Workplace Destinations of North East Derbyshire Residents

Residence of Commuters into North East Derbyshire



© Crown Copyright & Database Rights 2015. Ordnance Survey 100023251.

11. South Derbyshire

South Derbyshire is a net exporter of employees.

- **Self-containment** – 19,850 (41%) of South Derbyshire residents in employment work within the District; (62%) work within Derbyshire and the City of Derby.
- **Outflows** – 28,253 (59%) South Derbyshire residents commute outside of the District. 7,897 (16%) to Derby, 1,841 (4%) to a surrounding Derbyshire District and 18,515 (38%) into other areas.
- **Inflows** – 14,306 residents of other areas commute into South Derbyshire to work (accounting for around 42% of jobs within the District). This includes 3,517 (25%) from Derby, 1,782 (12%) from other Derbyshire Districts and 9,007 (63%) from other areas.

Outflows

Top 10 areas where South Derbyshire residents commute to

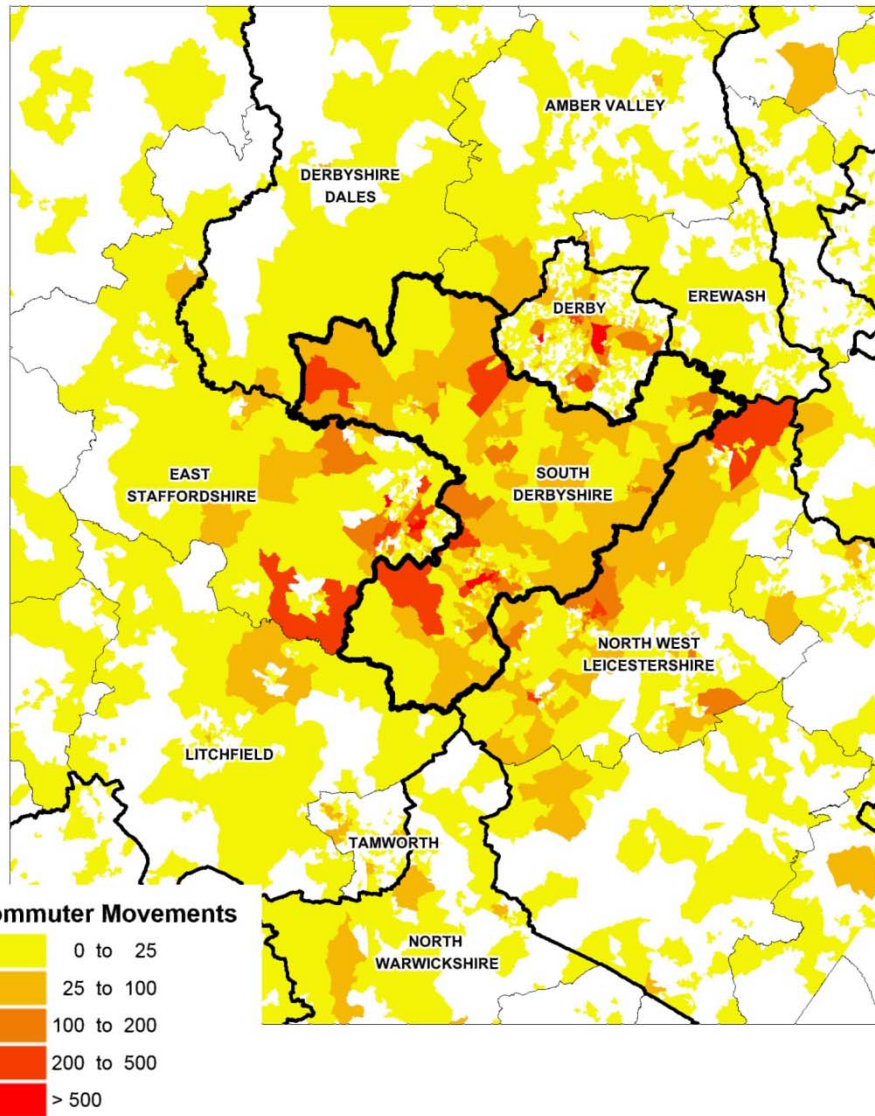


Inflows

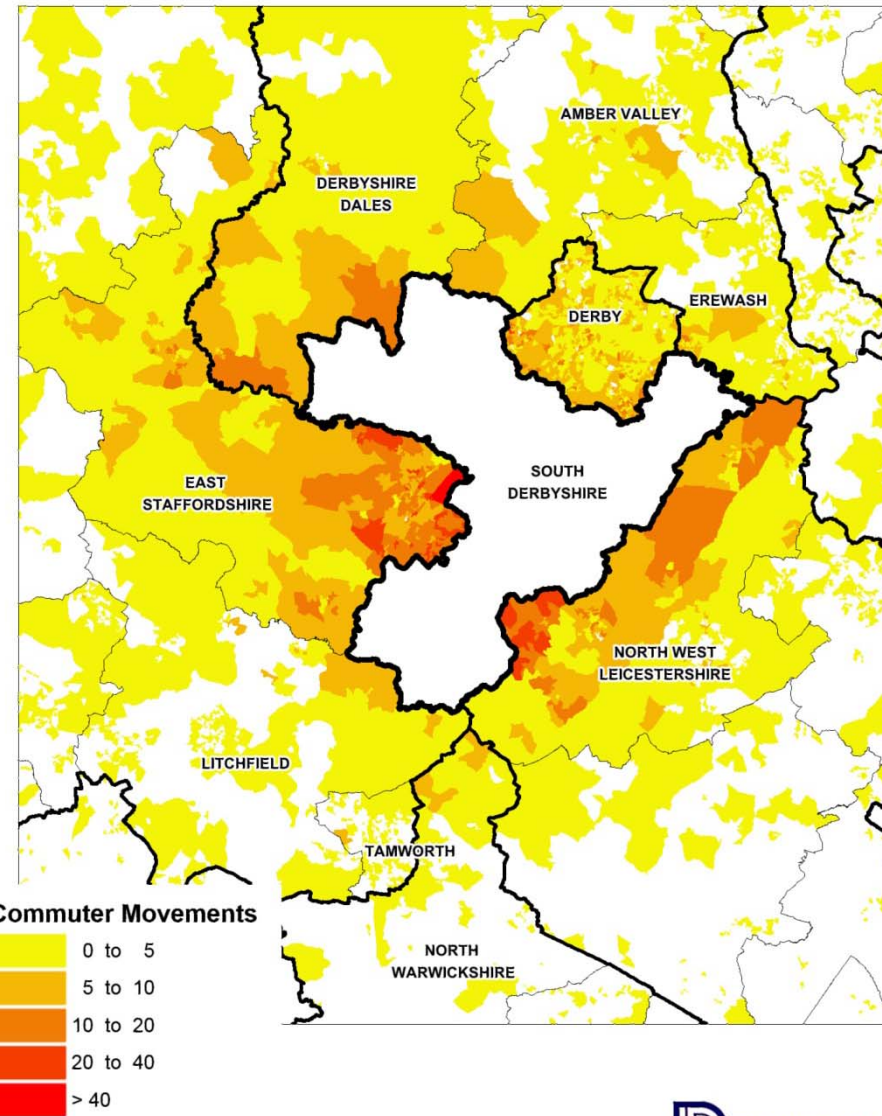
Top 10 areas where Commuters into South Derbyshire come from



Workplace Destinations of South Derbyshire Residents



Residence of Commuters into South Derbyshire

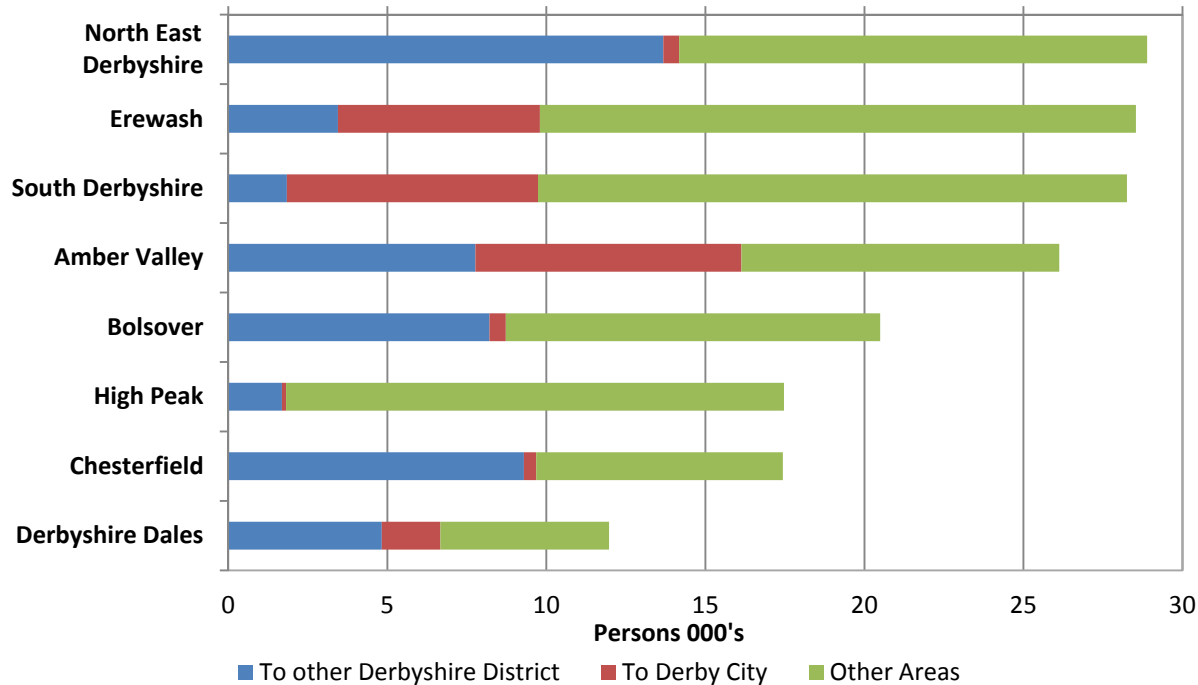


12. District Outflow Summary

Whilst Derbyshire provides important centres of employment locally, neighbouring towns and cities exert significant influence. Derby draws in the greatest number 25,985 (20%) of commuters from Derbyshire, followed by Sheffield 15,868 (12%), City of Nottingham 10,993 (9%), East Staffordshire 8,635 (7%), North West Leicestershire 6,668 (5%), Ashfield 6,060 (2%), Broxtowe 6,046 (2%), Manchester 3,683 (1%) and Stockport 3,523 (1%).

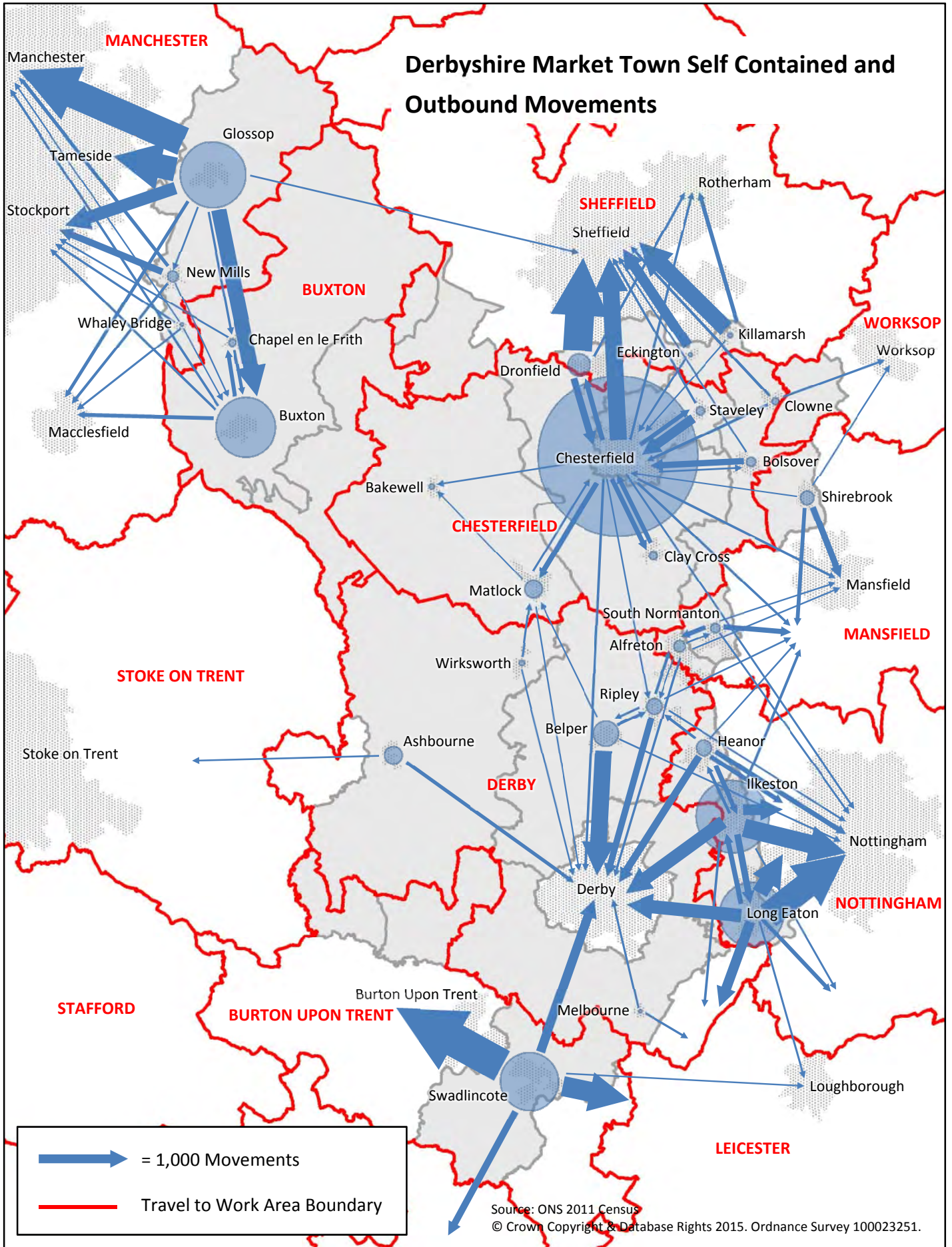
Internally, there is also significant movement across the Derbyshire Districts themselves. In total 179,176 Derbyshire residents commute outside their District to work, 50,740 (28%) to another Derbyshire District and 128,436 (72%) to another area (25,985 to Derby alone).

Number of residents of the Derbyshire Districts that commute to the rest of the county and other areas



Total Outflows	To other Derbyshire District	To Derby City	To Other Areas
28,891	13,674	500	14,717
28,536	3,447	6,348	18,741
28,253	1,841	7,897	18,515
26,124	7,766	8,364	9,994
20,495	8,209	518	11,768
17,471	1,684	130	15,657
17,437	9,292	391	7,754
11,969	4,827	1,837	5,305

Derbyshire Market Town Self Contained and Outbound Movements

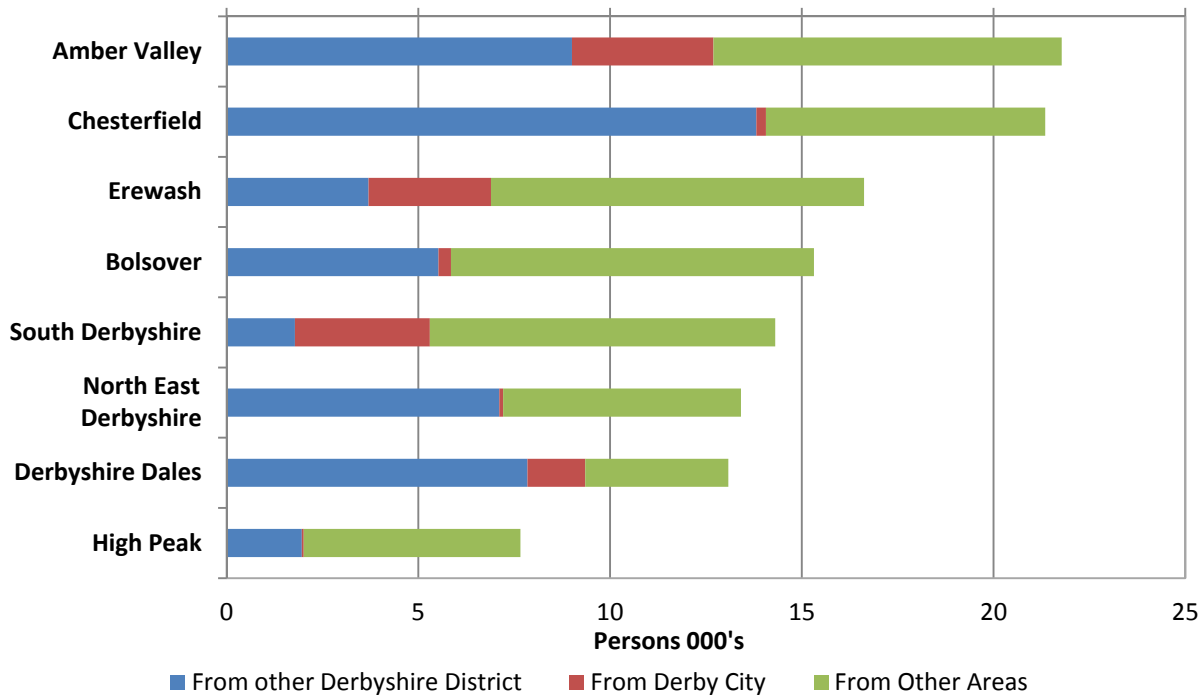


13. District Inflow Summary

Almost a quarter of Derbyshire jobs are filled by people travelling into the County, reflecting the importance of neighbouring areas as a source of labour. Derby is the greatest source of labour (12,637 (17%) inbound commuters) into Derbyshire, followed by Sheffield 9,356 (13%), Ashfield 6,389 (9%), Broxtowe 6,229 (9%), East Staffordshire 5,366 (7%), Mansfield 4,129 (6%), and the City of Nottingham 3,693 (5%).

In total 123,532 people commute into one of the Derbyshire Districts to work, 50,740 (41%) from another Derbyshire District and 72,792 (59%) from another area (12,637 from Derby alone).

Number of people that commute into Derbyshire Districts from the rest of the county and other areas.



Total Inflows	From other Derbyshire District	From Derby City	From Other Areas
21,778	9,004	3,692	9,082
21,349	13,813	253	7,283
16,623	3,701	3,194	9,728
15,315	5,526	325	9,464
14,306	1,782	3,517	9,007
13,414	7,110	100	6,204
13,084	7,844	1,507	3,733
7,663	1,960	49	5,654

14. Travel to Work Areas

In July 2015, the Office of National Statistics' (ONS) academic partner (Newcastle University) published the updated Travel to Work Areas (TTWAs) covering the UK based on the 2011 Census commuting flow data indicating home and workplace addresses. They identified a total of 228 TTWAs were defined.

The TTWAs are based on aggregations of Lower Super Output Areas (LSOAs) in England and Wales, Data Zones (DZs) in Scotland and Super Output Areas (SOAs) in Northern Ireland.

For comparison, in 2007, 243 TTWAs were defined using the 2001 Census.

The following plan provides a comparison of the 2001 and 2011 TTWAs in Derbyshire. Notable changes are the deletion of the Matlock Area, coupled with the expansion of the Chesterfield and Derby areas.

