

Census Bulletin

Travel to work in and beyond West Sussex

Travel to work statistics for resident workforce and workplace populations

This Census bulletin reports 2011 Census information about travel to work to and from West Sussex. It reports on levels of in and out commuting for areas within and beyond West Sussex. It also compares the mode of travel to work and distance travelled to work of the resident workforce population in local authority areas across West Sussex against the workplace population. It builds on and should be read in conjunction with the information provided in the accompanying Census Bulletin 'Travel to work and car or van ownership in West Sussex' which focused solely on the characteristics of the resident population.

Definition of resident workforce and workplace populations

The 2011 Census information includes information about the travel to work patterns of the resident workforce and workplace population. The travel to work information for the resident workforce population (aged 16 to 74) includes all those people who live in an area; i.e. those who work within that area or live in an area and commute to work outside that area. The workplace population (aged 16 to 74) is an estimate of the population working in an area. It includes all usual residents who are in employment and whose workplace is in the same area, and all people who live outside the area but commute into that area to work. People who work mainly at or from home or do not have a fixed place of work are included in both the resident workforce and workplace population for the area of their usual residence¹.

Net commuting flows for work within and beyond West Sussex

Chichester District and Crawley Borough are the only local authority areas within West Sussex which attract more people into their areas to work, than there are residents who commute out, although Worthing Borough has only a slight difference between the levels of in and out commuters (Table 1). Overall there are approximately 16,500 more residents who commute out of West Sussex for work, than people who commute into West Sussex (Appendix A)². In the case of Chichester District this is accounted for by the large number of people that commute into Chichester City (Appendix A).

	Inflows	Outflows	Net change
Adur District	9355	16546	-7191
Arun District	8973	27394	-18421
Chichester District	24296	16321	7975
Crawley Borough	43232	19143	24089
Horsham District	16728	26854	-10126
Mid Sussex District	20410	31941	-11531
Worthing Borough	16698	17899	-1201

Table 1: West Sussex district and borough net commuting flows for all those in employment aged 16 and over.

Source: ONS WU01UK 2011 Census 'Location of usual residence and place of work by sex'

Key differences between travel to work characteristics of West Sussex resident workforce and workplace populations

Appendix A shows the main mode of travel to work for the resident workforce and workplace populations aged 16-74 in employment across the main towns within West Sussex³, as well as across rural areas⁴.

The difference between commuting behaviour of resident workforce and workplace populations are most distinct in Chichester City where 46.6% of the resident workforce population drive a car or van to work (the lowest proportion of all localities across West Sussex), compared to 61.3% of the workplace population that drive a car or van to work into the City. Chichester City has over twice as many employees who work in the City (approx. 26,000), as opposed to employees who live in the City (approx. 12,500). By proportion, the City also has the highest resident workforce population who walk to work in West Sussex at 23.9% compared to the average of 9.7%.

Haywards Heath has the second largest difference between the travel behaviour of its resident workforce and workplace population. This is driven by differences in rail commuting as 19.2% of the resident workforce population commute to work by train, whereas 8.6% of the workplace population commutes to work in Haywards Heath by rail.

¹ The ONS have released two main Method of Travel to Work 2011 datasets which define home working in different ways. The analysis in this report uses the 2001 specification of travel to work. A person who indicated their place of work as their home address and said that they travel to work by driving a car or van appears in the category "work mainly at or from home", as was the case in 2001.

² Countywide net commuting flows are not provided by ONS under table WU01UK, however the overall net change has been calculated from figures in ONS tables CT0050 and WP703EW. Please note that ONS information in Table A is based on all employees aged 16 or above, whilst Appendix A is based on all employees aged 16-74 so there are slight differences in net commuting flows between these two datasets.

³ For the resident populations the main towns are defined by combined Lower Super Output Areas (LSOAs) except for Crawley and Worthing which are defined by their respective boroughs. The workplace population statistics released by ONS are based on workplace zones and information for towns has been derived by combining workplace zones. There are some small differences between the geographic areas covered by LSOAs and workplace zones and further information is available on request to West Sussex County Council.

⁴ The rural areas of districts used in this report are defined as all LSOAs or workplace zones outside the main town LSOAs or workplace zones.

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Consequently, the proportion of the resident population who drive a car to work was 48.8% as opposed to 56.0% for the workplace population. This pattern; i.e. a higher proportion of the resident workforce population commute to work by rail than the workplace population, is similar but less distinct for Burgess Hill, East Grinstead and Horsham.

Crawley Borough has the largest workplace population of the main towns in West Sussex at approximately 79,000, reflecting the presence of large employers within the Borough at Gatwick Airport and Manor Royal Industrial Estate. The workplace population is 24,000 larger than the resident workforce population of Crawley Borough. Public transport usage is higher amongst the resident workforce population than the workplace population for Crawley Borough with commuting to work by driving a car or van reported at 57.6% by the resident workforce population as opposed to 66.2% by the workplace population.

Distances travelled to work by West Sussex resident workforce and workplace populations

Figure 1: West Sussex resident workforce and workplace population distance travelled to work

Source: 2011 QS702EW and 2011 WP702EW ONS

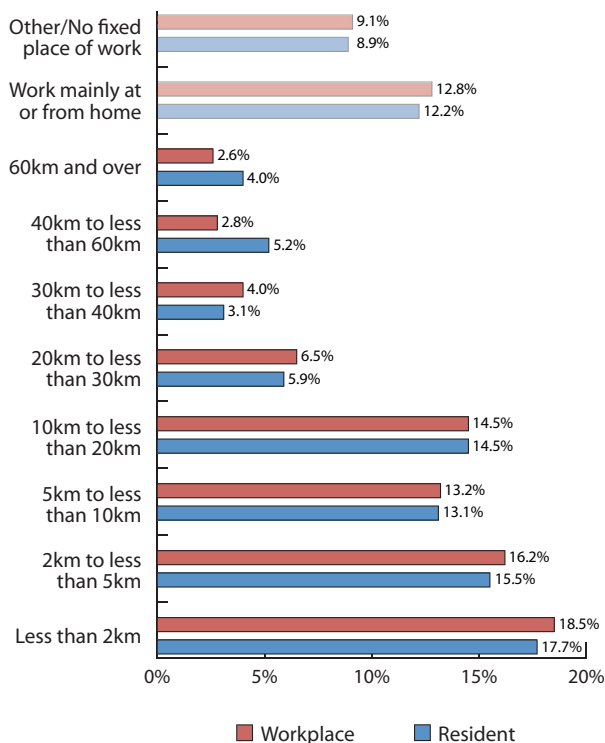


Figure 1 shows the difference in distances travelled to work by resident workforce and workplace populations for West Sussex. Appendix B provides the breakdown of distances travelled to work by resident workforce and workplace

populations for the largest towns in West Sussex.

Only Chichester City and Crawley Borough have a greater proportion of the resident workforce population travelling less than 2kms to work, as opposed to their workplace populations. East Grinstead (28.2%), Littlehampton (28.8%) and Bognor Regis (26.7%) have the highest proportion of the workplace population who travel less than 2kms to get to work.

Of all areas in West Sussex, Crawley Borough has the highest proportion of its workplace population who commute 40 to less than 60kms to work (6.5%) and 60kms and over to work (5.1%).

Haywards Heath (15.8%) and East Grinstead (9.4%) have the highest proportion of the resident workforce population who travel 40 to less than 60kms to work, whilst Burgess Hill (7.1%) has the highest proportion of residents commuting 60km or more to work which includes the commuting spheres to Greater London. Rural Chichester District has the second highest proportion of people travelling 60km and over to travel to work (6.1%).

Commuting inflow and outflow destinations

Appendix C presents the most popular origins and destinations for in and out commuting flows to West Sussex local authority areas. As described above Chichester District and Crawley Borough are the only areas in West Sussex attracting greater in-commuting of workers, rather than out-commuters. Across almost all of the local authority areas, the most popular inflows and outflows are to and from adjoining areas.

For Adur District there are significantly stronger outflows to Brighton and Hove (approx. 6,600) compared to inflows (approx. 3,100). This is similar in Arun District where there are approximately 10,700 commuters who travel to Chichester District, and approximately 3,300 commuters who commute in the reverse direction.

Arun District is the most popular origin and destination area for Chichester District in- and out-commuters. There are also approximately 900 Chichester District residents who commute to Westminster, City of London.

Crawley Borough attracts significantly more in-commuters than there are out-commuters, particularly from Mid Sussex, with approximately 7,100 in-commuters from this district as opposed to approximately 2,700 commuters who originate in Crawley Borough and work in Mid Sussex. Reigate and Banstead is the most popular destination for Crawley Borough resident workers (approx. 3,500).

From Horsham District, Crawley Borough is the most popular destination for out-commuters with approximately 6,200 commuters, as opposed to approximately 2,400 commuters who originate in Crawley Borough and work in Horsham District.

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For Mid Sussex, as noted above, Crawley is the most popular destination for out-commuters, while there are approximately 4,000 in-commuters from Brighton and Hove to Mid Sussex. There are also approximately 3,300 out-commuters from Mid Sussex to Westminster, City of London. This is the highest number of commuters to Westminster of all West Sussex local authority areas.

For Worthing Borough the most popular origin area for in-commuters is Arun District (approx. 5,700), whilst the most popular destination for out-commuters is Brighton and Hove (approx. 3,300).

Summary

This bulletin has reported on the net commuting flows to work for local authority areas in West Sussex. It has also reported on the modes of travel and distances travelled by resident workforce populations for areas within West Sussex, and by the workplace populations for those areas. In particular it has identified that Chichester District and Crawley Borough are the only local authority areas in West Sussex to have higher levels of in-commuting, than out-commuting.

This information on the differences between the commuting behaviour of resident workforce and workplace populations, and in- and out-commuting patterns, has been produced to help in the design and targeting of transport infrastructure and sustainable travel behaviour change initiatives.

The information summarised in this bulletin builds on the information provided in the previous bulletin 'Travel to work and car or van ownership in West Sussex' and together, reports on the key publically available travel to work statistics from the 2011 Census for West Sussex. Additional information about the socio-economic characteristics of the origins and destinations of commuters within and beyond West Sussex are available within safeguarded and secure information held by the ONS.

Travel to work in and beyond West Sussex

Appendix A - Method of Travel to Work (2001 specification) Resident and Workplace Populations 16-74 (2011 WP703EW and CT0050 ONS)

	Adur District		Shoreham-by-Sea		Arun District		Bognor Regis		Littlehampton		Arun Rural		Chichester District		Chichester City		Chichester Rural		Crawley Borough	
	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace
Home working	10.2%	13.5%	10.8%	13.9%	12.5%	17.2%	12.2%	18.0%	10.3%	13.8%	15.8%	20.1%	16.4%	14.2%	9.9%	4.7%	18.4%	21.2%	6.6%	4.6%
Train	7.3%	3.9%	7.8%	4.1%	4.4%	2.3%	2.9%	1.6%	5.3%	2.5%	5.9%	3.0%	4.3%	3.5%	3.6%	6.3%	4.5%	1.4%	7.8%	7.1%
Bus	5.5%	4.0%	6.2%	4.9%	2.4%	2.2%	3.4%	2.7%	2.0%	2.2%	1.2%	1.3%	1.9%	2.8%	2.1%	3.8%	1.9%	2.0%	10.7%	8.0%
Car or van driver	58.3%	57.4%	56.0%	56.4%	60.8%	55.6%	59.5%	52.1%	60.4%	57.1%	63.7%	58.9%	56.4%	59.3%	46.6%	61.3%	59.4%	57.8%	57.6%	66.2%
Car or van passenger	5.1%	5.2%	4.8%	4.9%	6.1%	5.5%	7.4%	5.9%	5.9%	5.2%	4.1%	5.0%	3.9%	5.1%	4.6%	5.0%	3.8%	5.2%	4.9%	4.1%
Cycle	3.7%	4.3%	3.9%	3.8%	3.6%	4.4%	4.0%	5.0%	4.3%	4.7%	2.2%	3.2%	4.1%	3.7%	7.8%	4.8%	2.9%	2.9%	2.5%	2.1%
Foot	7.8%	9.7%	8.3%	9.8%	8.3%	11.3%	8.9%	13.2%	9.9%	12.7%	5.4%	6.7%	11.3%	10.0%	23.9%	12.6%	7.4%	8.0%	8.3%	6.0%
Other	2.1%	2.0%	2.1%	2.1%	1.8%	1.6%	1.8%	1.4%	1.9%	1.7%	1.7%	1.8%	1.7%	1.5%	1.6%	1.4%	1.8%	1.5%	1.7%	1.9%
All people aged 16-74 in employment	29,356	22,179	16,557	12,858	67,443	49,092	29,304	19,764	21,156	16,193	16,983	13,135	53,285	61,226	12,594	25,896	40,691	35,330	55,466	79,370

	Horsham District		Horsham Town		Horsham Rural		Mid Sussex District		Burgess Hill		East Grinstead		Haywards Heath		Mid Sussex Rural		Worthing Borough		West Sussex	
	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace
Home working	14.6%	17.2%	10.2%	11.7%	17.3%	20.7%	13.1%	15.6%	9.5%	11.2%	12.2%	13.7%	11.3%	12.7%	17.3%	22.8%	10.4%	10.7%	12.2%	12.8%
Train	6.8%	2.5%	9.8%	4.0%	5.0%	1.5%	12.7%	4.8%	12.0%	5.3%	9.7%	2.7%	19.2%	8.6%	10.3%	2.3%	6.2%	4.1%	7.2%	4.2%
Bus	1.7%	2.0%	2.0%	2.8%	1.5%	1.5%	1.5%	2.0%	1.7%	1.9%	1.4%	2.5%	1.4%	2.2%	1.5%	1.6%	3.1%	3.8%	3.5%	3.7%
Car or van driver	61.3%	59.9%	57.0%	57.6%	63.9%	61.4%	56.2%	58.7%	58.8%	60.6%	56.3%	58.8%	48.8%	56.0%	59.7%	59.5%	54.8%	56.1%	58.0%	59.7%
Car or van passenger	4.1%	5.3%	4.6%	5.2%	3.8%	5.4%	3.9%	4.6%	4.5%	5.2%	3.9%	4.7%	3.7%	4.3%	3.6%	4.4%	5.0%	5.2%	4.7%	4.9%
Cycle	1.6%	1.8%	2.5%	2.7%	1.1%	1.3%	1.3%	1.5%	1.7%	2.0%	1.6%	1.6%	1.1%	1.1%	1.1%	1.2%	5.0%	5.1%	3.0%	3.0%
Foot	8.6%	10.1%	12.8%	15.0%	6.0%	7.0%	9.8%	11.5%	10.5%	12.1%	13.4%	14.8%	12.9%	13.7%	5.0%	6.8%	13.6%	13.6%	9.7%	10.0%
Other	1.2%	1.1%	1.1%	1.0%	1.3%	1.2%	1.5%	1.4%	1.4%	1.7%	1.5%	1.2%	1.6%	1.3%	1.5%	1.4%	1.8%	1.5%	1.6%	1.6%
All people aged 16-74 in employment	66,299	56,174	25,088	21,648	41,211	34,526	72,229	60,745	15,942	13,565	14,425	13,054	17,624	16,205	24,238	17,921	50,611	49,415	394,689	378,201

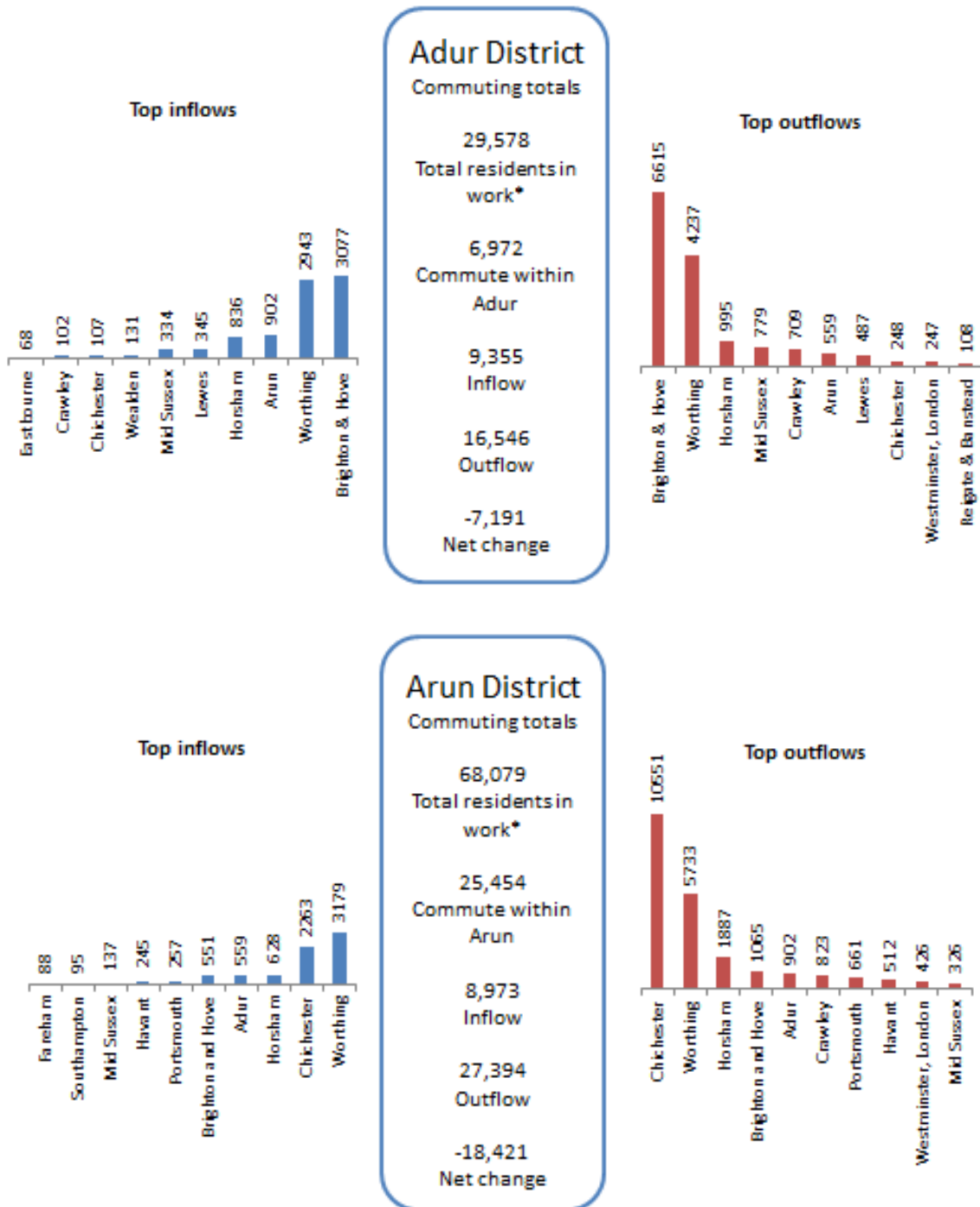
Travel to work in and beyond West Sussex

Appendix B - Distance Travelled to Work Resident and Workplace Populations 16-74 (2011 WP702EW and QS702EW ONS)

	Adur District		Shoreham-by-Sea		Arun District		Bognor Regis		Littlehampton		Arun Rural		Chichester District		Chichester City		Chichester Rural		Crawley Borough	
	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace
Less than 2km	16.6%	21.1%	17.4%	21.0%	17.0%	23.4%	18.0%	26.7%	22.0%	28.8%	9.0%	11.7%	19.0%	16.4%	39.9%	20.3%	12.6%	13.7%	16.6%	11.9%
2km to less than 5km	16.9%	15.6%	12.7%	15.5%	12.6%	16.7%	12.6%	17.2%	13.4%	15.5%	11.8%	17.4%	10.6%	9.3%	11.1%	9.2%	10.5%	9.5%	28.0%	21.2%
5km to less than 10km	20.2%	17.8%	24.7%	18.9%	19.2%	13.6%	23.0%	9.4%	13.0%	12.5%	20.6%	21.2%	11.5%	18.0%	7.8%	21.8%	12.6%	15.2%	14.8%	11.6%
10km to less than 20km	12.3%	11.0%	9.9%	10.6%	13.3%	9.4%	9.8%	6.5%	17.1%	11.4%	14.6%	11.6%	14.5%	18.4%	9.1%	23.0%	16.2%	15.0%	10.6%	14.1%
20km to less than 30km	3.8%	3.3%	3.8%	3.3%	5.1%	3.0%	5.1%	3.4%	4.4%	2.7%	6.1%	3.0%	6.2%	8.0%	5.7%	10.0%	6.3%	6.5%	3.4%	8.9%
30km to less than 40km	3.8%	1.7%	4.6%	1.9%	2.7%	1.4%	2.2%	1.4%	2.7%	1.4%	3.5%	1.5%	2.8%	2.2%	1.6%	2.5%	3.2%	2.0%	3.5%	11.1%
40km to less than 60km	1.3%	1.1%	1.4%	0.8%	3.1%	0.9%	2.6%	1.0%	3.2%	0.7%	3.8%	0.9%	3.7%	2.5%	3.8%	3.2%	3.7%	2.0%	6.9%	6.5%
60km and over	4.4%	1.5%	5.7%	1.0%	4.6%	1.1%	3.9%	1.0%	4.8%	1.2%	5.5%	1.2%	5.5%	2.6%	3.7%	1.9%	6.1%	3.1%	2.3%	5.1%
Work mainly at or from home	10.2%	13.5%	12.4%	13.9%	12.5%	17.2%	12.2%	18.0%	10.3%	13.8%	15.8%	20.1%	16.4%	14.2%	9.9%	4.7%	18.4%	21.2%	6.6%	4.6%
Other/No fixed place of work	10.4%	13.5%	12.1%	13.1%	9.9%	13.2%	10.6%	15.4%	9.2%	12.0%	9.4%	11.4%	9.8%	8.2%	7.4%	3.4%	10.5%	11.7%	7.4%	5.0%

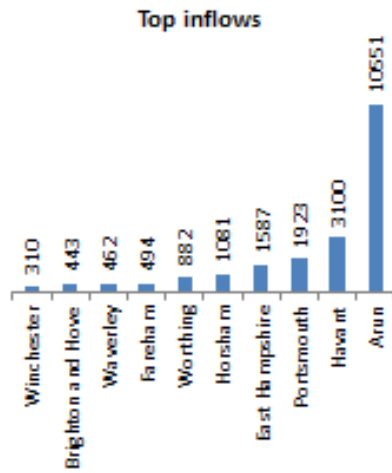
	Horsham District		Horsham Town		Horsham Rural		Mid Sussex District		Burgess Hill		East Grinstead		Haywards Heath		Mid Sussex Rural		Worthing Borough		West Sussex	
	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace	Resident	Workplace
Less than 2km	13.8%	16.3%	21.8%	24.7%	8.9%	11.1%	17.5%	20.7%	21.6%	24.6%	25.6%	28.2%	21.5%	23.5%	7.0%	9.8%	24.9%	25.6%	17.7%	18.5%
2km to less than 5km	10.3%	12.4%	13.3%	15.5%	8.4%	10.5%	10.8%	11.8%	12.7%	11.6%	8.8%	9.8%	9.0%	11.8%	12.1%	13.5%	23.1%	25.9%	15.5%	16.2%
5km to less than 10km	10.3%	11.6%	7.3%	7.8%	12.1%	14.1%	11.1%	11.9%	10.4%	7.4%	6.9%	7.7%	7.8%	14.3%	16.6%	16.4%	6.8%	10.3%	13.1%	13.2%
10km to less than 20km	19.4%	16.8%	18.9%	14.1%	19.6%	18.5%	17.4%	17.2%	17.7%	21.7%	17.9%	15.9%	18.3%	16.9%	16.2%	15.1%	10.9%	11.2%	14.5%	14.5%
20km to less than 30km	9.2%	8.3%	7.4%	9.9%	10.2%	7.2%	6.4%	6.2%	7.6%	6.0%	6.1%	6.6%	5.1%	7.4%	6.7%	5.2%	5.6%	3.6%	5.9%	6.5%
30km to less than 40km	4.2%	3.1%	3.8%	3.8%	4.4%	2.7%	2.3%	2.7%	1.8%	2.1%	3.1%	4.4%	1.6%	2.4%	2.6%	2.3%	2.5%	1.0%	3.1%	4.0%
40km to less than 60km	6.5%	2.0%	8.4%	2.5%	5.3%	1.7%	9.3%	2.3%	3.8%	2.1%	9.4%	3.1%	15.8%	2.2%	8.1%	1.9%	2.2%	1.1%	5.2%	2.8%
60km and over	3.2%	2.2%	1.8%	2.2%	4.0%	2.1%	3.9%	2.1%	7.1%	4.5%	1.4%	1.4%	2.3%	1.0%	4.5%	1.7%	4.6%	1.6%	4.0%	2.6%
Work mainly at or from home	14.6%	17.2%	10.2%	11.7%	17.3%	20.7%	13.1%	15.6%	9.5%	11.2%	12.2%	13.7%	11.3%	12.7%	17.3%	22.8%	10.4%	10.7%	12.2%	12.8%
Other/No fixed place of work	8.7%	10.0%	7.1%	8.0%	9.7%	11.3%	8.2%	9.5%	7.8%	8.9%	8.6%	9.3%	7.2%	7.8%	9.0%	11.4%	9.0%	8.9%	8.9%	9.1%

Appendix C - Top Commuting Flows from West Sussex Districts and Boroughs Ages 16+ (2011 WU01UK ONS)



* Total residents in work figures include home workers and residents with no fixed place of work

Travel to work in and beyond West Sussex



Chichester District

Commuting totals

53,905
Total residents in work*

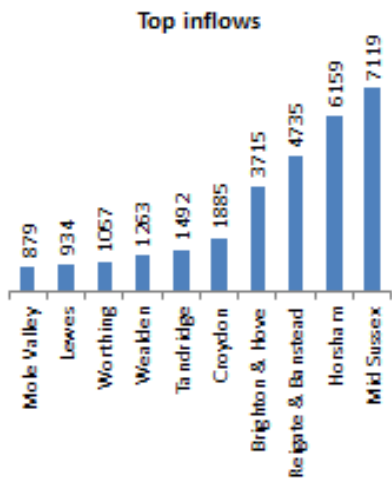
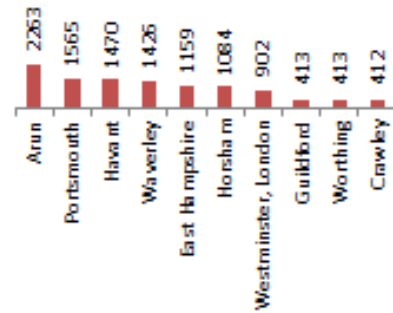
23,500
Commute within Chichester

24,296
Inflow

16,321
Outflow

7,975
Net change

Top outflows



Crawley Borough

Commuting totals

55,676
Total residents in work*

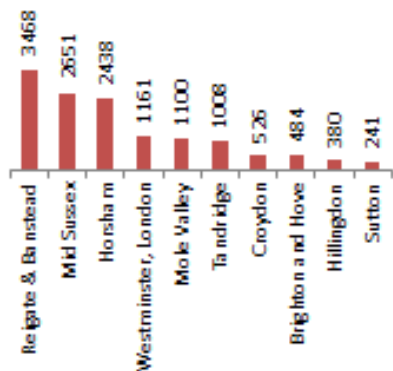
28,828
Commute within Crawley

43,232
Inflow

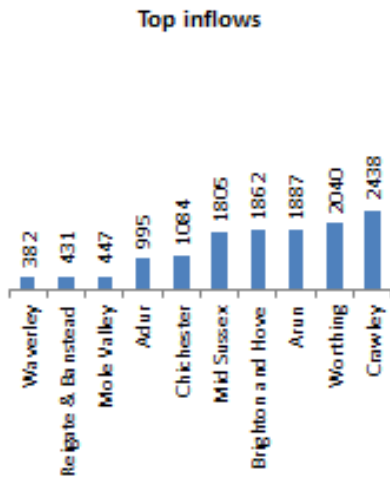
19,143
Outflow

24,089
Net change

Top outflows



* Total residents in work figures include home workers and residents with no fixed place of work



Horsham District

Commuting totals

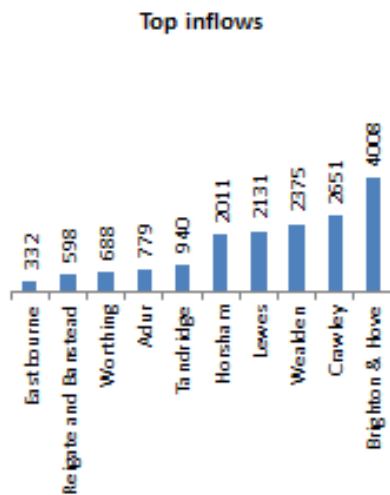
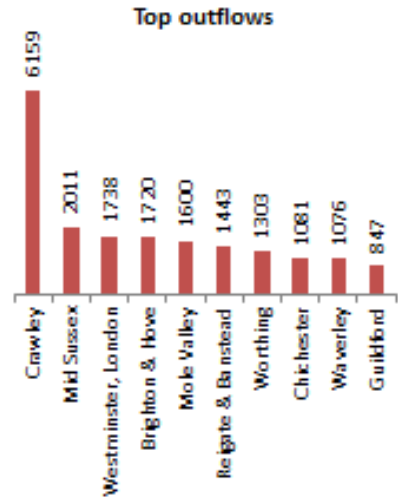
66,864
Total residents in work*

24,413
Commute within Horsham

16,728
Inflow

26,854
Outflow

-10,126
Net change



Mid Sussex District

Commuting totals

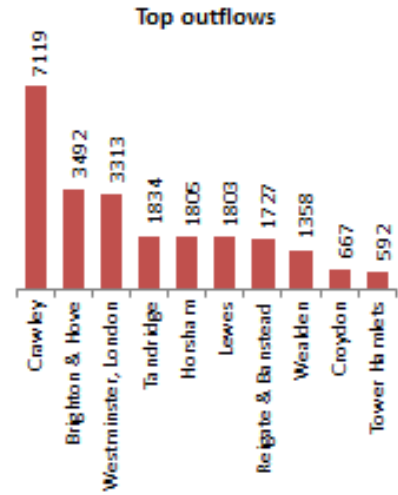
72,805
Total residents in work*

25,400
Commute within Mid Sussex

20,410
Inflow

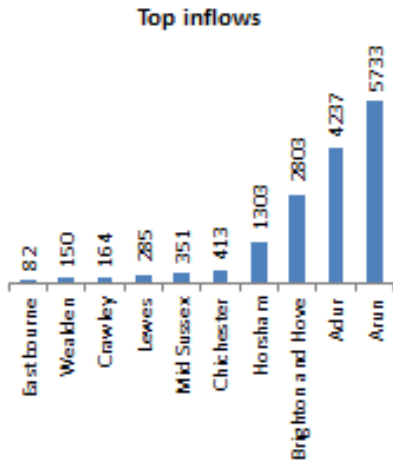
31,941
Outflow

-11,531
Net change



* Total residents in work figures include home workers and residents with no fixed place of work

Travel to work in and beyond West Sussex



Worthing Borough

Commuting totals

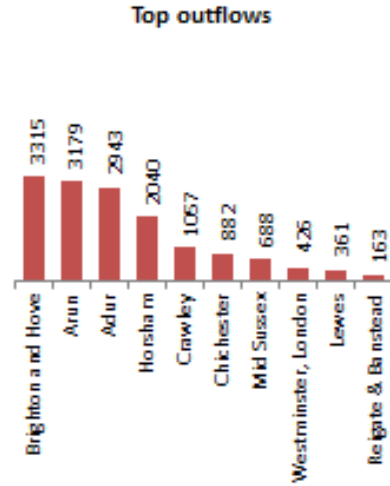
50,977
Total residents in work*

23,236
Commute within Worthing

16,698
Inflow

17,899
Outflow

-1,201
Net change



* Total residents in work figures include home workers and residents with no fixed place of work