

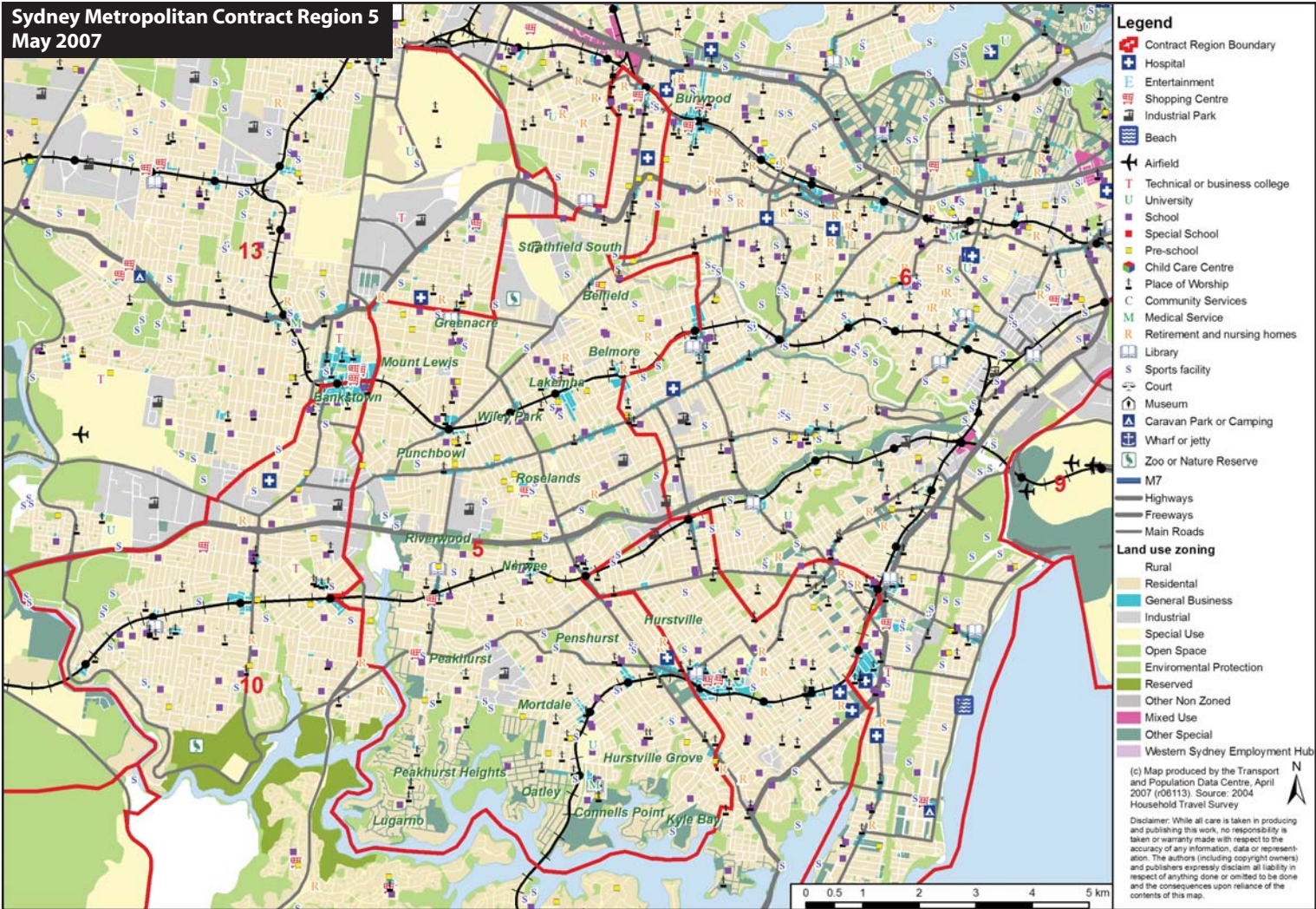


Contract Region 5

Lakemba – Mortdale – Punchbowl – Roselands



MINISTRY OF TRANSPORT



1. Introduction

This profile has been prepared for stakeholders attending the 2007 Regional Bus Planning Forum for Bus Contract Region 5. There are 15 Bus Contract Regions across the Sydney metropolitan area (see appendix 1, page 14).

This profile outlines some background geographic and demographic information, and provides details of transport services (bus, train) and existing travel patterns from, to and within Contract Region 5. The data comes from a variety of sources (see explanatory notes on page 18).

Bus services in Contract Region 5 are provided by Punchbowl Bus Company. This profile has been prepared by the Ministry of Transport to assist stakeholders in preparing suggestions on issues which they may wish Punchbowl Bus Company to take into account in designing a new bus network in the Region.

2. Location

The above map illustrates the location of Contract Region 5, its major facilities and some land use features.

Overview

Region 5 is located in southern Sydney. It has the smallest land area of all the Contract Regions, covering approximately 5,900 hectares (by comparison, the largest Contract Region in Sydney is Region 1, with an area of 121,900 hectares).

Region 5 is roughly situated in an area between the major centres of Burwood/Strathfield, Bankstown and Hurstville, and includes suburbs such as Punchbowl, Lakemba, Mortdale and Roselands. A list of the suburbs within Region 5 is provided on page 2.

Adjoining Contract Regions

Contract Region 5 borders Region 13 to the north-west and Region 6 to the north-east. Directly to the south of Region 5 is the Georges River, while Region 10 adjoins it to the south-east and south-west.

Local Government Areas (LGA)

Region 5 covers part of the Local Government Areas (LGAs) of Bankstown, Burwood, Canterbury, Hurstville, Kogarah and Strathfield. The population breakdown by LGA in the following table shows that most people living in Region 5 reside in the Canterbury LGA.

LGA	Approx. pop of LGA in Contract Region 5	% CR5 pop from LGA
Bankstown	22,900	11.6%
Burwood	6,800	3.5%
Canterbury	78,900	39.9%
Hurstville	57,600	29.1%
Kogarah	20,800	10.5%
Strathfield	10,800	5.4%
Total	197,800	100.0%

Regional Organisation of Councils

The following Regional Organisation of Councils represent the six LGAs in Region 5:

- Inner Metropolitan Regional Organisation of Councils (IMROC): Burwood and Strathfield
- Southern Sydney Regional Organisation of Councils (SSROC): Canterbury, Hurstville and Kogarah
- Western Sydney (WESROC): Bankstown.

Electoralates

Contract Region 5 covers all or part of the State Electoralates of Bankstown, Canterbury, East Hills, Kogarah, Lakemba, Oatley (covers much of the former Georges River Electorate) and Strathfield. The State Electoralates applicable to each suburb are listed below.

Suburbs, LGAs and State Electoralates in Contract Region 5

Suburb	% of Suburb in Contract Region 5	Contract Region 5 LGA	Contract Region 5 State Electorate
Hurstville Grove	100.0%	Kogarah	Oatley
Lakemba	100.0%	Canterbury	Lakemba
Lugarno	100.0%	Hurstville	Oatley
Mortdale	100.0%	Hurstville	Oatley
Mount Lewis	100.0%	Bankstown	Bankstown
Narwee	100.0%	Hurstville	Oatley
Oatley	100.0%	Hurstville	Oatley
Peakhurst	100.0%	Hurstville	Oatley
Peakhurst Heights	100.0%	Hurstville	Oatley
Penshurst	100.0%	Hurstville	Oatley
Punchbowl	100.0%	Canterbury	Lakemba
Riverwood	100.0%	Canterbury	Lakemba
Roselands	100.0%	Canterbury	Lakemba
Wiley Park	100.0%	Canterbury	Lakemba
Belfield	>90%	Canterbury	Canterbury
Connells Point	>90%	Kogarah	Kogarah
Beverly Hills	>80%	Hurstville	Kogarah
Kyle Bay	>80%	Kogarah	Kogarah
Strathfield South	>70%	Strathfield	Strathfield
Belmore	>60%	Canterbury	Lakemba
Enfield	>50%	Burwood	Strathfield
South Hurstville	>50%	Kogarah	Kogarah
Greenacre	>40%	Bankstown	Bankstown
Hurstville	>30%	Hurstville	Oatley
Campsie	>20%	Canterbury	Canterbury
Croydon Park	>20%	Canterbury	Canterbury
Kingsgrove	>20%	Hurstville	Lakemba
Padstow	>20%	Bankstown	East Hills
Strathfield	>20%	Strathfield	Strathfield
Bankstown	>10%	Bankstown	Bankstown
Blakehurst	<10%	Kogarah	Kogarah
Burwood	<10%	Burwood	Canterbury

3. Community Facilities

The section discusses the major facilities in Contract Region 5, and many of them are shown on the map on page 1. Unless stated otherwise, this information was sourced from the Transport & Population Data Centre (TPDC) of the NSW Department of Planning.

Retail Facilities

There are approximately 12 retail centres located in, or closely adjoining, Contract Region 5:

Major Centres	Other Centres
Burwood Plaza	Belfield Plaza
Centro Bankstown	Lakemba Palms Plaza
Centro Roselands	Peakhurst Village Shopping Centre
Hurstville Super Centre	
Riverwood Plaza	<i>Source: Major Centres -</i>
South Terrace Plaza, Bankstown	<i>Property Council of Australia (2005);</i>
Strathfield Plaza	<i>Other Centres - TPDC 2006</i>
Westfield Burwood	
Westfield Hurstville	

Details on each of the major shopping centres, such as key tenants, size of centres, car parking spaces and pedestrian visits per annum, are included in Appendix 2.

Recreational / Cultural Facilities

Recreational and cultural facilities in Contract Region 5 include:

- Georges River National Park, Lugarno
- Lakemba Mosque
- Oatley Park
- Rotary Park, Riverwood

Educational & Learning Facilities

There are a number of educational and learning facilities in Contract Region 5.

Schools

There are 65 government and non-government schools in Region 5. By type of school there are:

- 1 infants school
- 42 primary schools
- 12 high schools
- 6 combined primary and high schools
- 4 special schools

A list of the schools in Contract Region 5 is provided in Appendix 3. It should also be recognised that in addition to these schools, many students travel to schools in neighbouring Regions.

Libraries

Contract Region 5 has libraries located in the suburbs of:

- Oatley
- Penshurst
- Riverwood

Health Facilities

Hospitals

There are two private hospitals in Contract Region 5:

- Alwyn Rehabilitation Hospital, Strathfield
- Hurstville Community Private Hospital, Hurstville

There are also two public hospitals located in close proximity to Region 5 that service its residents:

- Bankstown-Lidcombe Hospital, Bankstown
- Canterbury Hospital, Campsie

Aged Care Facilities

There are approximately 25 Aged Care Facilities in Contract Region 5 including "low care" hostels, and "high care" nursing homes. Appendix 3 provides a list of low care facilities in the Region.

4. Centres

The NSW Government's Metropolitan Strategy identifies a number of strategic centres in Sydney. Centres are concentrations of employment, retail facilities and services, and generally well serviced by public transport. Centres relevant to Contract Region 5 are described below:

Major centres: major shopping and business centres for their surrounding areas with a full scale shopping mall, council offices, taller office and residential buildings, central community facilities and a minimum of 8,000 jobs.

- Bankstown – partly located in the central-eastern area of Regions 5, and across Regions 10 and 13
- Burwood – located in the extreme north of Region 5, as well as in Region 6
- Hurstville – located in south-eastern area of Region 5 and Region 10

Town Centres: contain a large group of shops and services, including 1-2 supermarkets, some community facilities, a medical centre and a variety of specialist shops.

- Canterbury LGA – Roselands

Employment Lands: areas containing factories, warehouses and associated offices, high tech manufacturing, transport logistics and major storage operations.

- Canterbury LGA – Riverwood/Punchbowl
- Hurstville LGA – Peakhurst
- Strathfield LGA – South Strathfield/Enfield

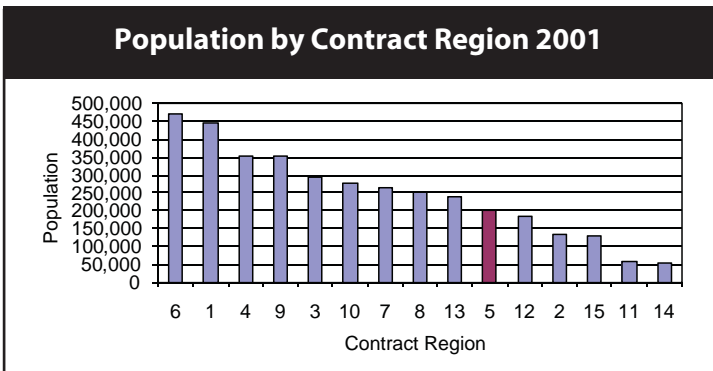
Analysis of travel patterns to the Major Centres of Bankstown, Burwood and Hurstville are presented in Section 7.

5. Demographics

This section describes the characteristics of the population in Region 5, and makes some comparisons with the rest of the 15 Contract Regions across Sydney.

Population

The estimated resident population of Contract Region 5 in 2001 was 197,800. Region 5 is ranked at number ten out of the fifteen bus Contract Regions in terms of population size.



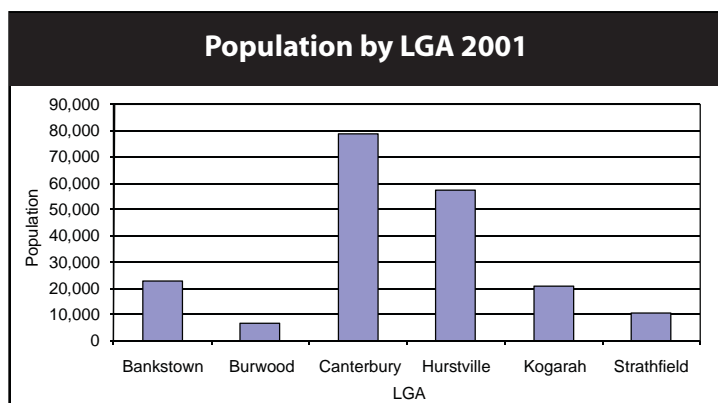
Population change over time

Between 1996 and 2001 the population of Region 5 increased from 190,000 to 197,800, an increase of 4%, compared with an average of 6% for all Contract Regions. The suburbs in Region 5 that experienced significant population growth between 1996 and 2001 include: Beverly Hills, Hurstville, Riverwood, Strathfield and Strathfield South.

The population of Region 5 is predicted to rise to 230,400 by 2031, an increase of 16% in total. Across the 15 Sydney Contract Regions as a whole, the population is forecast to grow by 29%, over the same period.

Population by LGA

Some 40% of Contract Region 5's population lives in Canterbury LGA, with 29% residing in Hurstville LGA, and around 11% living in each of the LGAs of Bankstown and Kogarah. A further 5% live in Strathfield LGA and 3% in Burwood LGA.



Population by Age

In 2001 20% of people living in Contract Region 5 were aged 5 to 19 years, the same proportion as for the Contract Regions as a whole. However, there was a slightly higher proportion of people aged 55 years and over in Region 5 (23%) compared to the Contract Regions overall (20%). These population groups are traditionally higher users of public transport.

Age Group	% Pop of Contract Region 5 by 5 year Age Groups	% Pop of Contract Region 5 by Major Age Groups
Aged 0 - 4	7.0%	7.0%
Aged 5 - 9	7.0%	20.3%
Aged 10 - 14	6.5%	
Aged 15 - 19	6.7%	
Aged 20 - 24	6.8%	49.2%
Aged 25 - 29	7.2%	
Aged 30 - 34	7.6%	
Aged 35 - 39	7.8%	
Aged 40 - 44	7.4%	
Aged 45 - 49	6.5%	
Aged 50 - 54	5.8%	
Aged 55 - 59	4.8%	22.7%
Aged 60 - 64	4.1%	
Aged 65 - 69	3.6%	
Aged 70 - 74	3.5%	
Aged 75 - 79	3.1%	
Aged 80 - 84	2.1%	
Aged 85 - 89	1.1%	
Aged 90 - 94	0.4%	
Aged 95 - 99	0.1%	
Aged over 100	0.0%	
Not stated	0.9%	0.9%
Total	100.0%	100.0%

The highest concentrations of people aged 5 to 19 years in Region 5 included the suburbs of Punchbowl, Riverwood, Oatley and Mount Lewis. The suburbs with the greatest share of people aged over 55 years were: Strathfield, Peakhurst, Narwee and Riverwood.

Languages other than English (LOTE)

There is a higher proportion of people living in Contract Region 5 with little or no English language skills compared to the other Contract Regions overall. At the time of the 2001 Census, over 9% of the

LGAs	% Population of Contract Region 5 speaking English not well / not at all
Bankstown	11.7%
Burwood	10.0%
Canterbury	13.2%
Hurstville	5.2%
Kogarah	4.1%
Strathfield	9.6%
Total CR5	9.5%

population in Region 5 either did not speak English well or not at all, compared to 5% for the Contract Regions as a whole.

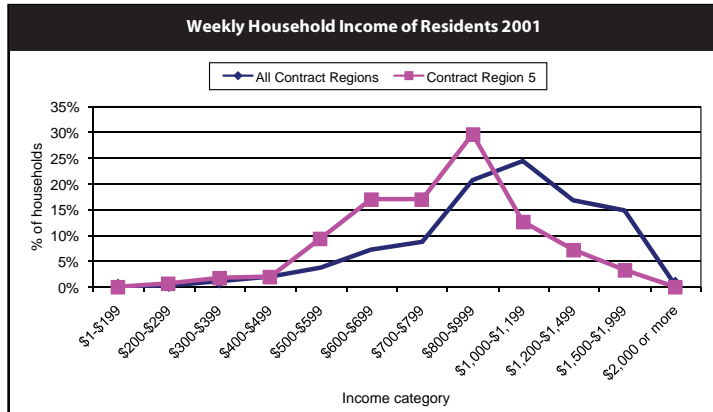
The proportion of people with little or no English speaking skills living in Contract Region 5 by LGA are presented in the table above right, revealing some interesting variations within Region 5. The area of Canterbury LGA in Region 5 has the highest proportion of residents with limited English language skills, whilst Kogarah LGA has the lowest proportion.

Average Household Size

In 2001 the average household size in Contract Region 5 was 2.9, the same as the average for all Regions. Within Region 5, the average household size in the Burwood, Hurstville and Strathfield LGAs was 2.8, compared to 2.9 for Canterbury and Kogarah LGAs, increasing to 3.4 for Bankstown LGA.

Household Incomes

The average weekly household income (including multi-employee households) for Region 5 in 2001 was \$800-\$999, whilst the average for all Regions was \$1,000-\$1,199.



Like the other demographic characteristics already discussed, there were some interesting variations in average weekly household income by each of the LGAs in Region 5. The highest average incomes were in Kogarah and the lowest were in Canterbury.

LGAs	Average Weekly Household Income
Bankstown	\$700-\$799
Burwood	\$800-\$899
Canterbury	\$600-\$699
Hurstville	\$800-\$899
Kogarah	\$1,000-\$1,199
Strathfield	\$800-\$899
Total CR5	\$800-\$899

Socio-Economic Disadvantage

The Australian Bureau of Statistics produces the "SEIFA" index (Socio-Economic Indexes for Areas 2001) of relative advantage and disadvantage. The index covers all areas in Australia and has been designed to have an average of 1,000. Low values indicate areas of disadvantage, and high values indicate areas of advantage. It takes into account variables such as the proportion of families with high incomes, people with a tertiary education, and employees in skilled occupations.

The index for Bankstown and Canterbury LGAs is under 1,000, and these are two of the most disadvantaged LGAs in Sydney, based on this index. Burwood and Strathfield have the highest indexes in Region 5, but only small areas of each of these LGAs are located in the Region.

LGA	SEIFA Index of Advantage/Disadvantage
Bankstown	972
Burwood	1,061
Canterbury	965
Hurstville	1,043
Kogarah	1,080
Strathfield	1,082

Disability

Information on the proportion of the population in Contract Region 5 with a disability was sourced from the Australian Bureau of Statistics' National Regional Profile for 2003. According to this data, an average of 13% of the residents of the six LGAs received either an Aged Pension or a Disability Support Pension. This could mean that across Region 5 there are around 25,500 people with some form of disability.

LGA	% Population receiving Aged Pension	% Population receiving Disability Support Pension	Total % Population receiving Pension
Bankstown	10.8%	3.2%	14.0%
Burwood	10.2%	2.4%	12.6%
Canterbury	10.0%	3.3%	13.3%
Hurstville	10.2%	2.3%	12.5%
Kogarah	8.8%	1.8%	10.6%
Strathfield	7.9%	1.9%	9.8%
LGA Average	10.1%	2.8%	12.9%

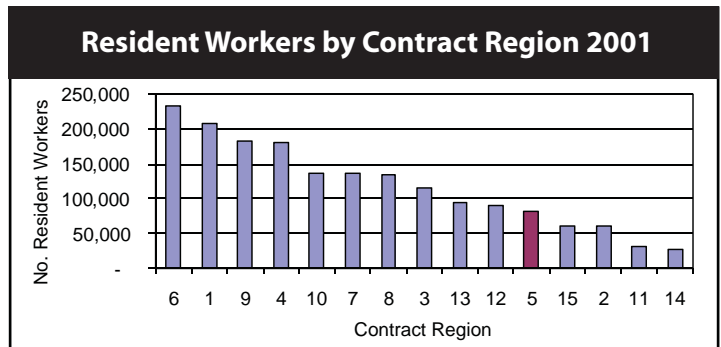
Education

At the time of the 2001 Census, 25% of residents in Contract Region 5 were attending educational institutions, with 15% attending school - the same as the average for all Regions.

Educational Institution	% Pop in CR5
Preschool	1.4%
Infants & Primary	8.6%
Secondary	6.6%
Technical or Further Education	3.2%
University	3.8%
Other	1.0%
Not Attending	68.5%
Not stated	6.8%
Total	100.0%

Workforce

In 2001 the estimated resident workforce of Contract Region 5 was 80,700 - around 41% of the total population.



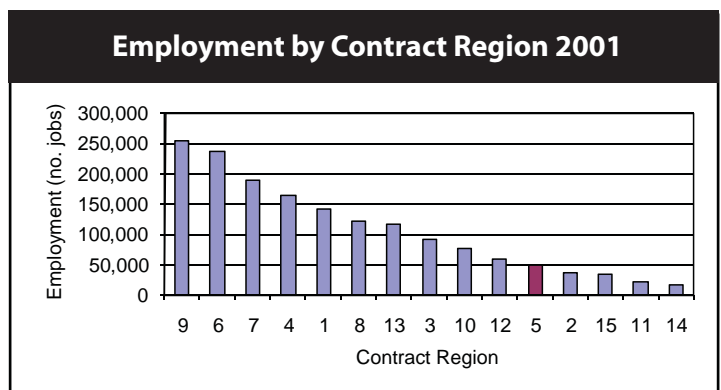
Most of Region 5's working population of Region 5 lived in Canterbury and Hurstville LGAs, as shown in the following table.

LGA	% Contract Region 5 Workforce from LGA	Approx. Workforce of LGA in Contract Region 5
Bankstown	7,900	9.8%
Burwood	3,000	3.8%
Canterbury	28,500	35.4%
Hurstville	26,900	33.3%
Kogarah	9,900	12.2%
Strathfield	4,500	5.6%
Total	80,700	100.0%

The areas of Region 5 with the highest numbers of resident workers were Mortdale, Lugarno, Belfield, Punchbowl and Oatley.

Employment

In 2001 the total employment (number of jobs) in Contract Region 5 was approximately 48,600, ranking it eleventh among the 15 Contract Regions.

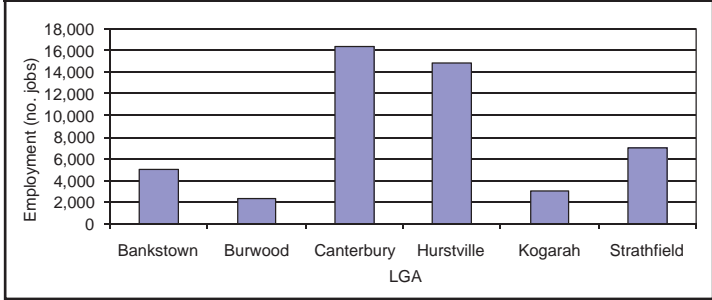


Between 1996 and 2001 employment grew in Contract Region 5 by only 1.4%, significantly lower than the average growth for all Regions of 9%. Over the period 2001-2031 employment in Contract Region 5 is expected to decline by 9% to around 44,400 jobs, whilst employment across all Regions is forecast to grow by 24%.

Of Contract Region 5's total employment:

- 34% is in Canterbury LGA
- 31% is in Hurstville LGA
- 14% is in Strathfield LGA
- 10% is in Bankstown LGA
- 6% is in Kogarah LGA
- 5% is in Burwood LGA

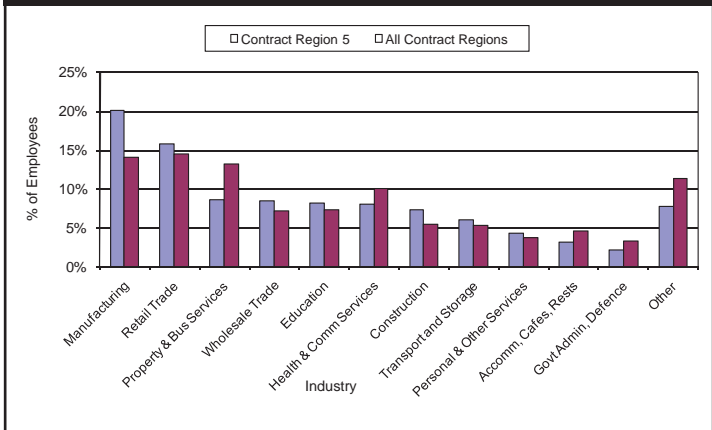
Employment by LGA 2001



Industry Profile

Manufacturing is the largest employment industry in Region 5 (20% of jobs), followed by Retail Trade (16%), and Property and Business Services (9%).

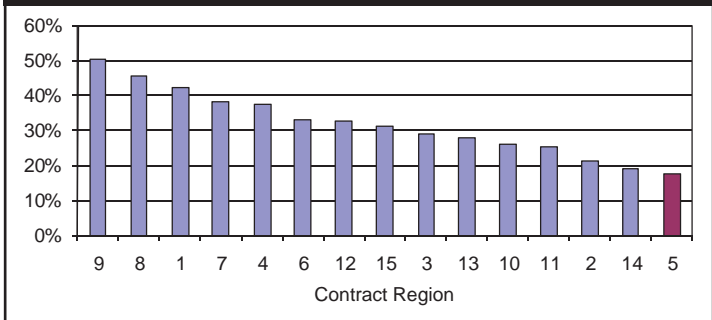
Employment Industry Profile 2001



Self Containment of Employment

In 2001 there were 80,700 workers living in Region 5 and 48,600 jobs. The self containment rate, or percentage of the workforce employed in the Region, was 18% - the lowest of all 15 Regions, and much lower than the average rate of 32%.

% Workforce Living & Working in same Contract Region



Work related travel patterns to, from and within Region 5, are discussed in Section 8.

6. Transport Services

There are currently train, bus, and Community Transport services available in Region 5. A description of each service is provided in this section, and discussion of the travel patterns in Region 5 is provided in Sections 7, 8 and 9.

Current Bus Operations

Bus services in Region 5 are provided by Punchbowl Bus Company. Services from adjoining regions operated by State Transit (Region 6) and Veolia (Region 13) also operate in parts of Region 5. The map on page 7 illustrates the current bus route network in Region 5 and the table on page 6 provides a description of routes and their frequency.

Strategic Bus Corridors

Due to the location of the major centres of Bankstown, Burwood and Hurstville on the edges of Region 5 there are a large number of strategic bus corridors that service the Region:

Corridor 12	Parramatta – Bankstown
Corridor 13	Parramatta – Burwood
Corridor 23	Miranda – Bankstown
Corridor 24	Miranda – Hurstville
Corridor 25	Hurstville – Bankstown
Corridor 26	Hurstville – City (via Newtown)
Corridor 27	Hurstville – Burwood
Corridor 28	Bankstown – Burwood
Corridor 29	Bondi Junction – Burwood
Corridor 30	Bondi Junction – Hurstville
Corridor 34	Bankstown – Wetherill Park
Corridor 35	Bankstown – Burwood
Corridor 35	Bankstown – Burwood
Corridor 37	Burwood – City
Corridor 38	Burwood – Chatswood
Corridor 39	Burwood – Macquarie

6 Bus Services in Contract Region 5

Route	Destination	Weekday			Saturday		Sunday/Holidays		
		AM Peak	Off-Peak	PM Peak	Evening	Daytime	Evening	Daytime	Evening
Punchbowl Bus Co									
446	Roselands - Kogarah via Earlwood and Bardwell Park	30	30-45	30	60	60	-	60	-
447	Greenacre - Belmore via Roselands	20	45	30	60	60	-	60	-
450	Hurstville - Strathfield via Beverly Hills, Roselands, Lakemba and Belfield	20	30	20	45-60 a	30-60	-	60	-
451	Beverly Hills (Baumans Rd) - Hurstville	20-40	60	40-60	-	60	-	c	-
451	Campsie - Hurstville via Lakemba, Roselands and Beverly Hills	30	60	30	30 b	60	-	d	-
940	Bankstown - Hurstville via Punchbowl, Roselands, Riverwood and Narwee	30	30	30	-	60 e	-	120	-
941	Bankstown - Hurstville via Greenacre, Punchbowl, Roselands, Narwee and Penshurst	30	30	30	60 a	60	-	120 f	-
942	Bankstown - Lugarno via Greenacre, Punchbowl, Roselands, Narwee and Riverwood	20	30	15-20	60 g	60	-	-	-
943	Hurstville - Lugarno via Peakhurst and Penshurst	20	30	20	60 a	30	-	60	-
944	Mortdale - Roselands via Riverwood and Punchbowl	20	40	20	60 a	60	-	120	-
945	Bankstown - Mortdale via Stacey Street and Riverwood	40	40	40	60 a	60	-	120	-
953	Hurstville - Kyle Bay / Connells Point Loop Service	15 h	30	15	30 a	30	-	60	-
954	Hurstville - Oatley West via Hurstville Grove and Oatley	1 trip	3 trips	3 trips	-	4 trips	-	-	-
954	Hurstville - Hurstville Grove	20	30	15-20	30 i	30	-	60	-

Adjoining regions' services operating in Region 5

Sydney Buses

415	Campsie - Burwood via Belmore, Belfield and Strathfield	5-15	30	15	a	30 j	-	60 k	-
462	Mortlake - Ashfield via Cabarita, Concord, East Concord, Burwood and Croydon Pk	-	-	-	45	-	60 m	-	60 m
464	Mortlake - Ashfield via Concord, Burwood and Croydon Pk	15	30	20	-	20/40	-	60	-
466	Cabarita - Ashfield via Concord, East Concord, Burwood and Croydon Pk	15	30	20	-	60	-	60	-
480	Strathfield Station - City (Town Hall) via Homebush Rd, Ashfield and Parramatta Rd	15	40	15	-	40 j	-	-	-
483	Strathfield Station - City (Town Hall) via Wallis Ave, Ashfield and Parramatta Rd	15	40	15	60	20-40	60	60	-
487	Bankstown - Canterbury via Canterbury Road, Roselands and Campsie	30	30	30	1 trip	30	-	-	-

Veolia Transport NSW

900	Burwood - Liverpool via Strathfield, Greenacre, Bankstown and UWS Milperra	20	30	20	30	30	60	60	-
913	Strathfield - Bankstown via Greenacre and Chullora	60	60	60	-	-	-	-	-
914	Strathfield - Greenacre	60	-	60	-	-	-	-	-

Notes:

a-To 9pm only, b-Operates Hurstville - Beverly Hills or Roselands only, until 9pm, c-Before 11am and after 3:30pm only, d-Between 11am and 3:30pm only, Hurstville - Roselands only, e-Additional 60 min service Roselands - Hurstville until 1pm, f-Additional 120 min service operating via 940 between Hurstville and Punchbowl, g-Thursday nights only between Roselands and Lugarno, h-30 mins during school holidays, i-Route 953 service operating via Kyle Bay and Connells Point, j-60 mins after 2pm, k-Operates Strathfield - Campsie only, m-Additional 60 mins service Ashfield - Enfield only

Rail Services

There are 15 rail stations in Region 5. They are located on the following CityRail suburban and Intercity lines:

- Northern Line: Hornsby to North Sydney (via Strathfield and City)
- North Shore Line: Berowra to Parramatta (via City)
- Western Line: Richmond / Emu Plains to Berowra (via Granville, City and Chatswood)
- South Line: Campbelltown to City (via Granville)
- Inner West Line: Liverpool to Museum (via Regents Park)
- Bankstown Line: Liverpool or Lidcombe to City (via Bankstown)
- Airport & East Hills Line: Macarthur to City (via Airport or Sydenham)
- Newcastle and Central Coast Line: Newcastle to Central (via Strathfield or Chatswood)
- Blue Mountains Line: Lithgow to North Sydney
- South Coast Line: Bomaderry (Nowra) to Bondi Junction

2005 Weekday Station Entry and Exits

Station	Ranking	Passenger Counts
Strathfield	6	17,940
Hurstville	13	13,360
Burwood	15	12,010
Campsie	39	6,210
Mortdale	50	4,110
Lakemba	57	3,590
Padstow	59	3,500
Riverwood	65	3,120
Penshurst	66	3,040
Punchbowl	77	2,520
Belmore	87	2,120
Oatley	112	1,660
Beverly Hills	120	1,530
Wiley Park	129	1,430
Narwee	135	1,320

Source: CityRail 2006

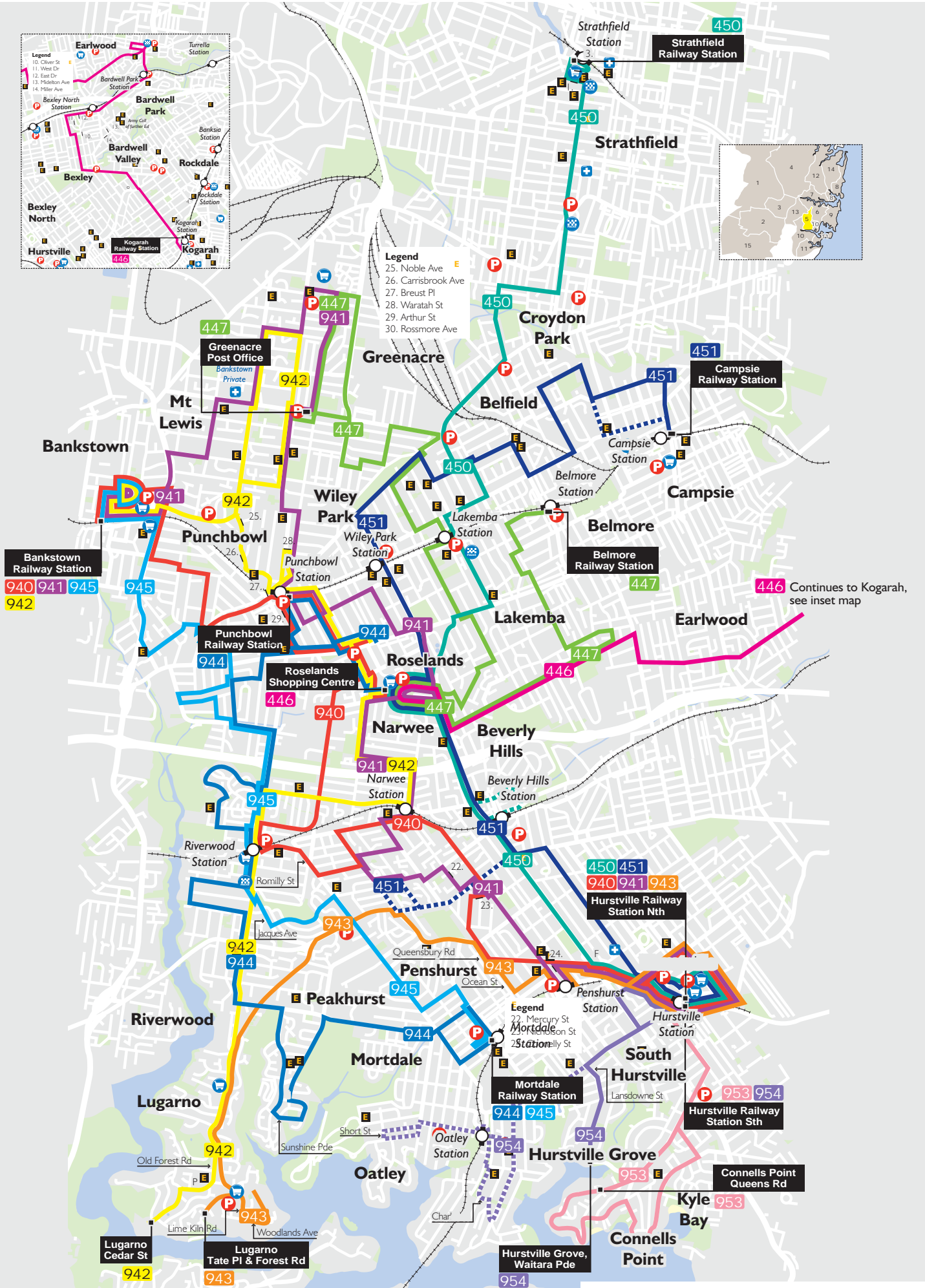
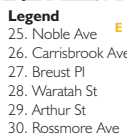
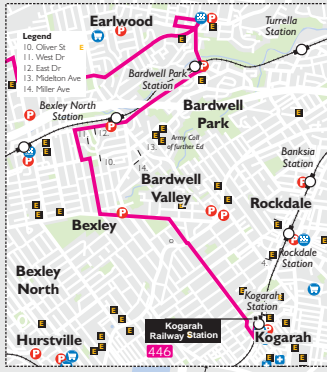
Community Transport Services

Community Transport services are non-profit passenger transport services that cater to the needs of people who cannot use existing private or mainstream public transport systems. Community Transport operators provide services using buses, minibuses and cars driven by both paid and voluntary workers to transport clients primarily for purposes of attending medical appointments, social outings and shopping / personal business.

Community Transport in Region 5 is currently provided by:

- Bankstown Community Transport Services – services LGAs of Bankstown and Canterbury
- Inner West Community Transport – services LGAs of Ashfield, Burwood, Canada Bay, Canterbury, Marrickville and Strathfield
- St George Community Transport – services LGAs of Hurstville, Kogarah, Rockdale and Sutherland

During 2005 approximately 19,700 Community Transport trips originated in Region 5. The characteristics of these trips are described in Section 9.



**Sydney Metropolitan Bus Services
 Area 5 - 9 May 2007**

7. Travel Patterns

This section discusses the travel patterns within Region 5 on an average weekday in 2004. The analysis presented is from the TPDC's Household Travel Survey.

Total Travel

Each weekday approximately 563,700 trips* originate in Region 5 – these include trips by residents and non-residents.

The residents of Region 5 make an average of 3.5 trips per person each weekday, and 3.2 trips per person on weekends. For the Regions as a whole, the average trip rate on weekdays is 3.8, whilst on weekends it is 3.3. Therefore the residents of Region 5 are travelling slightly less on average than the residents of the other Regions.

* A trip is defined as a journey from one activity to another.

Destination of Travel

Of the 563,700 trips starting each weekday in Region 5, 50% (approx. 282,200) also end in Region 5. An additional 38% finish in the adjoining Regions of 6, 10 and 13. Only 11,100 (2%) are to the Sydney CBD.

Destination of All Trips from Contract Region 5	No. of Trips	% of Trips
Within Region 5	282,200	50.1%
To Region 6	89,600	15.9%
To Region 10	81,400	14.4%
To Region 13	45,600	8.1%
To Region 9	15,000	2.7%
To Sydney CBD	11,100	2.0%
To Region 4	6,800	1.2%
To Region 7	6,400	1.1%
To Region 3	5,300	0.9%
To Region 11	3,900	0.7%
To Region 2	3,600	0.6%
To Region 1	2,400	0.4%
To Region 15	2,300	0.4%
To Region 8	1,900	0.3%
To Region 12	1,900	0.3%
To Region 14	<1,000	0.1%
Other/unknown	3,800	0.7%
Total	563,700	100.0%

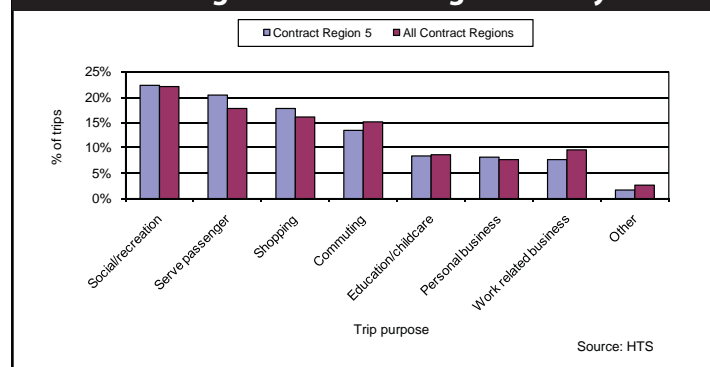
Purpose of Travel

Trips originating in Contract Region 5 are for a diverse range of reasons. Only around 13% on weekdays are for the purpose of commuting to and from work. The majority are for activities such as social / recreational purposes (22%) and serve passenger** (20%), followed by shopping (18%). Around 8% of all trips starting in Region 5 are education related.

** Defined as picking up / dropping off a passenger, or accompanying a trip maker.

Compared to travel across all Regions as a whole, there are higher proportions of serve passenger and shopping trips starting in Region 5, and lower proportions of commuting and work-related business trips.

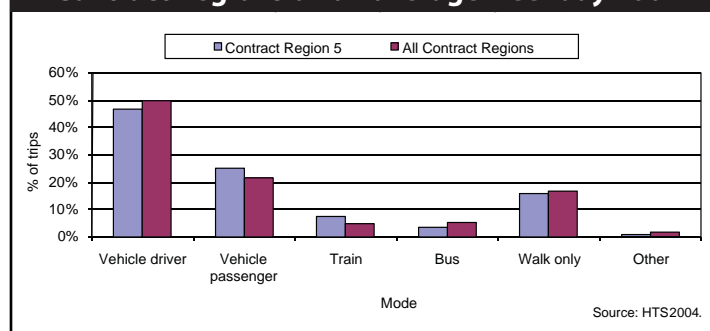
Purpose of trips starting in Contract Regions on an average weekday 2004



Mode of Travel

Throughout Sydney most travel is by car, no matter the reason for the trip. This is also true for travel in Region 5.

Mode used for trips starting in Contract Regions on an average weekday 2004



Compared to mode use across all Regions, there is a lower proportion of vehicle driver trips starting in Region 5 and a higher proportion of vehicle passenger trips. The share of trips by train is 8%, higher than the average of 5% for all Regions, reflecting the extensive rail network in the Region.

Travel to Centres

Travel for all purposes on an average weekday in 2004 is mapped to illustrate the catchment area for travel to the key strategic centres relevant to Region 5 (see following pages).

• Bankstown

This centre is located across three Regions, including the eastern boundary of Region 5. Approximately 22,000 trips on an average weekday that start in Region 5 end in this centre. Most trips of these start in nearby suburbs such as Punchbowl, Lakemba, Mount Lewis and Belmore.

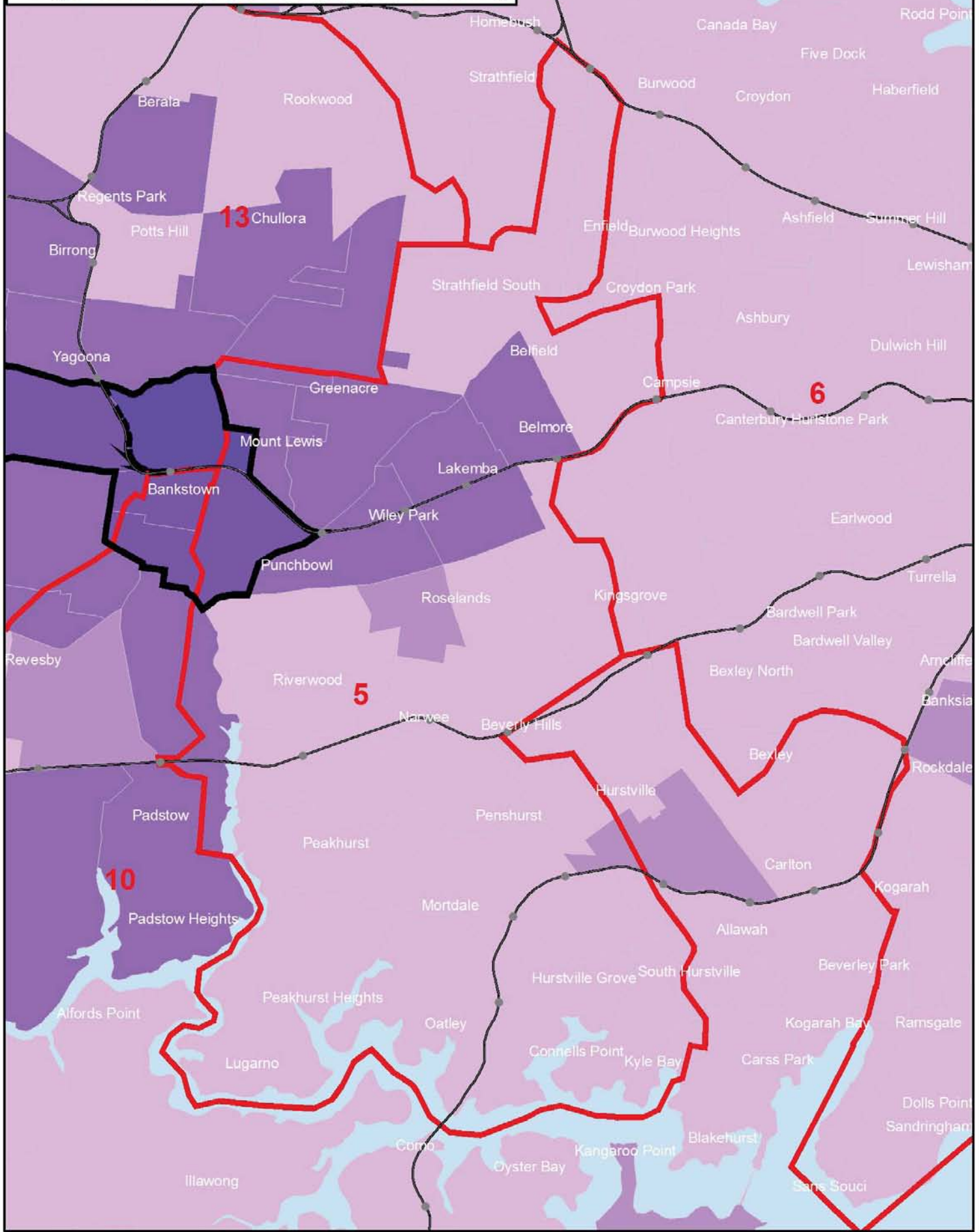
• Burwood

A small part of this centre is located in the very north of Region 5, as well as in Region 6. On an average weekday around 15,000 trips from Region 5 go to this centre. Most of these originate in the northern suburbs of Region 5 including Enfield, Strathfield and Belfield.

• Hurstville

Hurstville attracts approximately 43,000 trips from Region 5 on an average weekday. Part of this centre is located in the south-east of Region 5, as well as in Region 10. Trips to Hurstville from Region 5 are from suburbs such as Mortdale, Connells Point, Penshurst, Peakhurst and Oatley.

Origin of trips to Bankstown on a weekday



Trips to the centre

- 0 - 500
- 501 - 1,000
- 1,001 - 5,000
- 5,001 - 20,000
- More than 20,000

Bankstown
 Contract Regions

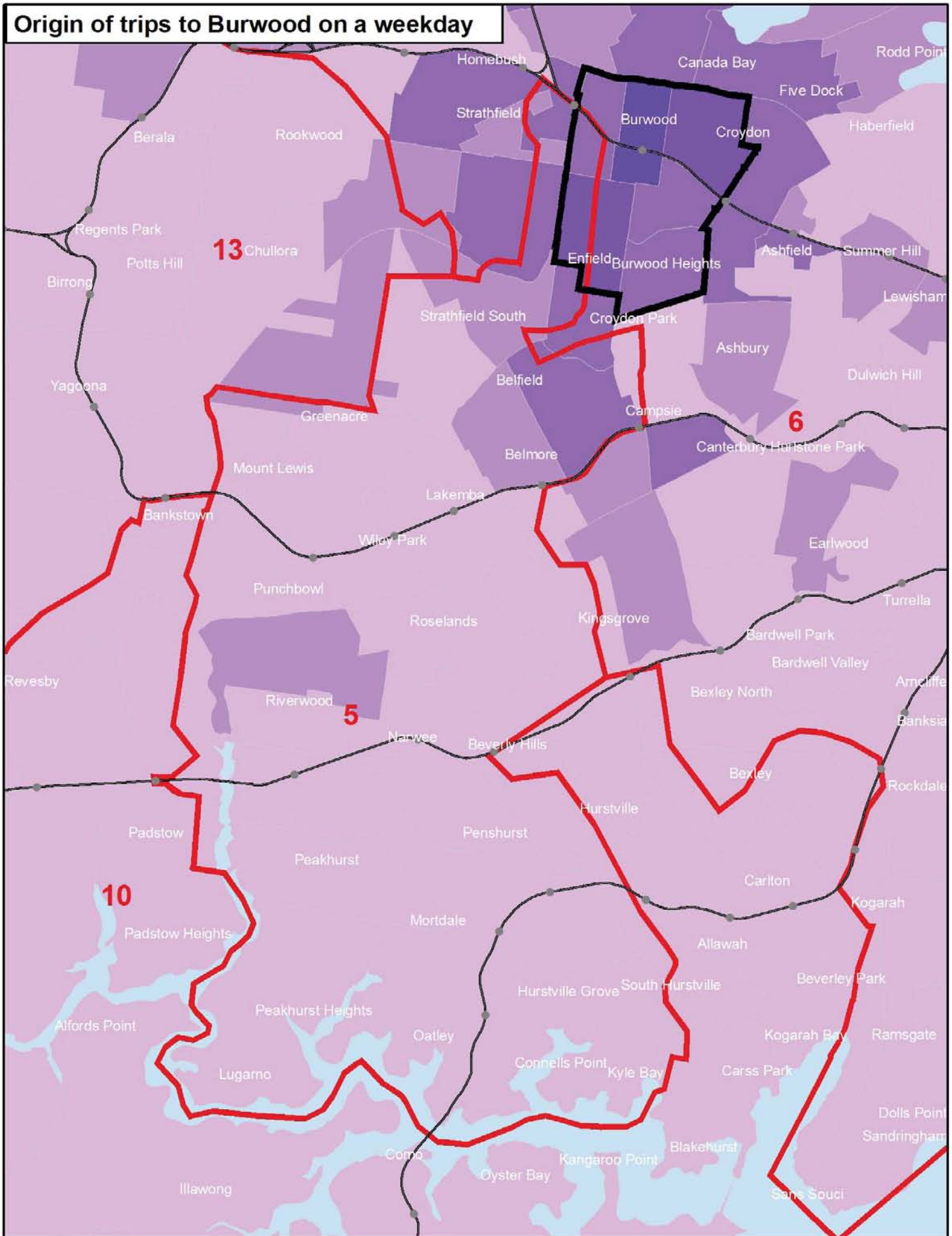


0 0.5 1 1.5 2 2.5 km

(c) Map produced by the Transport and Population Data Centre, June 2006 (r06113). Source: 2004 Household Travel Survey

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Origin of trips to Burwood on a weekday



Trips to the centre

- 0 - 500
- 501 - 1,000
- 1,001 - 5,000
- 5,001 - 20,000
- More than 20,000

- Burwood
- Contract Regions

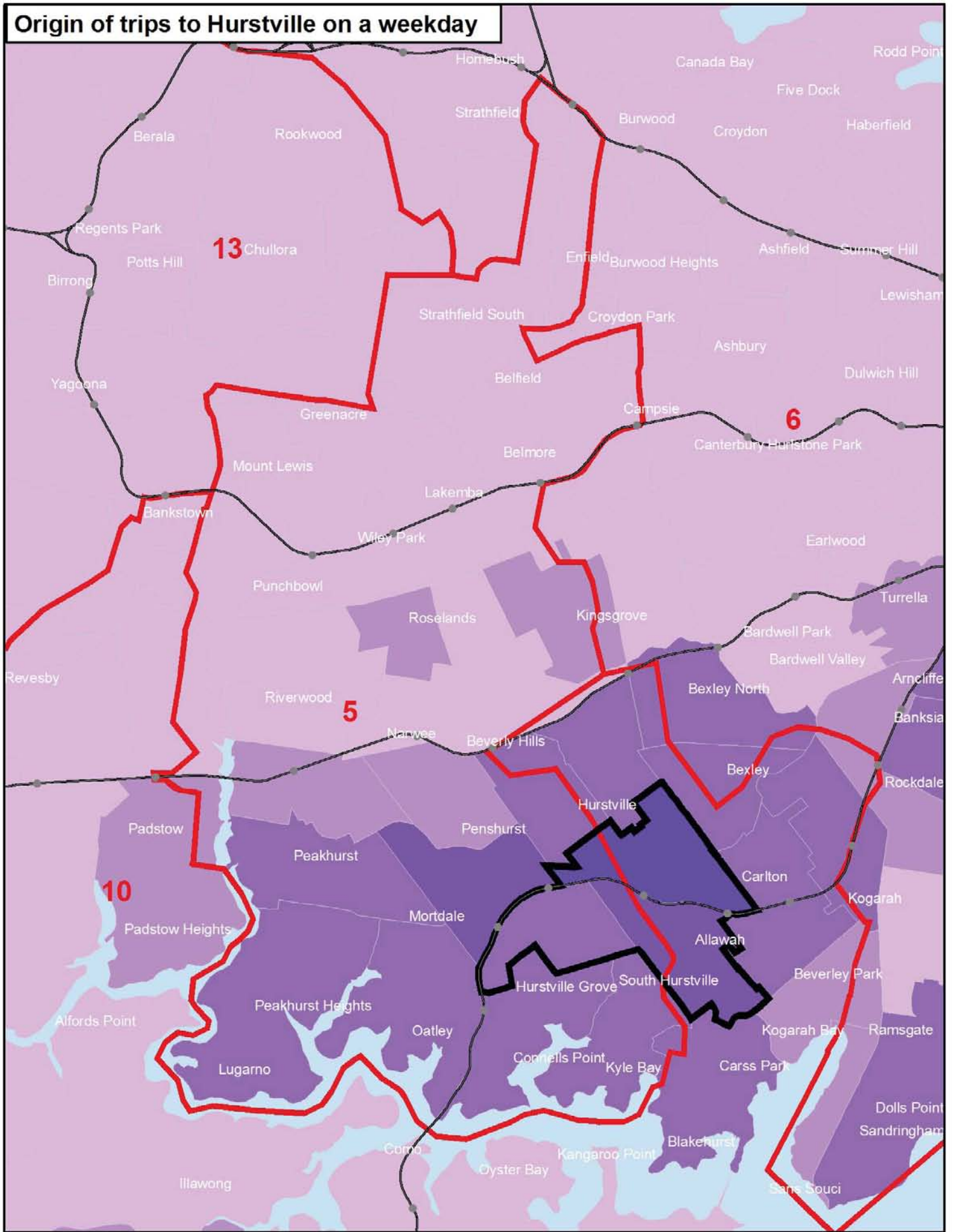


0 0.5 1 1.5 2 2.5 km



(c) Map produced by the Transport and Population Data Centre, June 2006 (r06113). Source: 2004 Household Travel Survey

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Origin of trips to Hurstville on a weekday



- Trips to the centre**
- 0 - 500
 - 501 - 1,000
 - 1,001 - 5,000
 - 5,001 - 20,000
 - More than 20,000

 Hurstville
 Contract Regions



0 0.5 1 1.5 2 2.5 km

(c) Map produced by the Transport and Population Data Centre, June 2006 (r06113). Source: 2004 Household Travel Survey

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8. Journey to Work

Section 8 presents an analysis of the Journey to Work data collected as part of the 2001 Census. The analysis presented includes the travel patterns of the workers living in Contract Region 5, as well as the travel patterns of people employed in Contract Region 5. There is also some discussion of work travel patterns for people both living and working in Region 5.

Destination of work trips for residents of Region 5

For the 80,700 workers living in Region 5, 18% also worked in Region 5, while 19% worked in the neighbouring Region 6. The Sydney CBD employed 11% of all workers living in Region 5.

The number of workers living in Region 5 employed in other Contract Regions noticeably decreases with distance, as shown in the following table.

Workplace Destination for Employees living in Contract Region 5	No. of workers	% of workers
To Region 6	15,200	18.9%
Within Region 5	14,200	17.6%
To Region 9	10,300	12.8%
To Sydney CBD	8,800	10.9%
To Region 10	6,900	8.6%
To Region 13	5,900	7.4%
To Region 7	3,300	4.1%
To Region 4	1,600	1.9%
To Region 3	1,400	1.7%
To Region 8	1,200	1.5%
To Region 11	800	1.0%
To Region 1	600	0.7%
To Region 2	500	0.6%
To Region 12	400	0.5%
To Region 15	200	0.3%
To Region 14	100	0.2%
Other*	9,200	11.5%
Total	80,700	100.0%

* Includes employees with no fixed workplace address, an unknown workplace address, and people employed outside the 15 Contract Regions.

Travelling to work in Centres

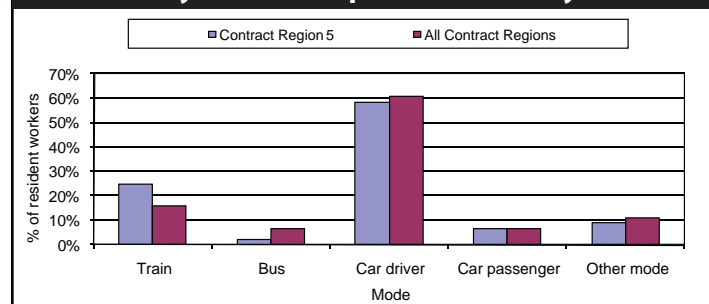
Of the workforce living in Region 5, approximately 44% work in major centres. Of those employed in centres, most were employed in the Sydney CBD (28%), followed by Hurstville (9%).

Mode used for work trips by residents of Region 5

For the workers living in Region 5, 65% of their trips to work were by car (driver and passenger) compared to 67% across all 15 Regions, as measured by the 2001 Census.

A larger proportion of workers living in Region 5 travelled to work on Census Day 2001 by train (25%) compared to all the Regions as a whole (16%). The journey to work mode share in Region 5 for bus was 2%, compared to 7% for all Regions

Mode used by resident workers for Journey to Work trips on Census Day 2001



Public Transport trips to work by residents of Region 5

The resident workers of Region 5 tended to travel to work by train for longer distance public transport trips, and by bus for more localised trips.

Of the approximately 17,500 residents living in Region 5 who travelled to work by train, most were employed in the Sydney CBD, followed by Regions 6 and 9 which adjoin the CBD (Region 6 also adjoins Region 5). Only 3% of train trips were to locations within Region 5.

Workplace Destination for Employees living in Contract Region 5 - Train trips to work

Workplace Destination	No. of Workers	% of Workers
To Sydney CBD	6,800	39.1%
To Region 9	3,000	17.1%
To Region 6	2,600	14.7%
To Region 7	1,000	5.6%
To Region 8	700	4.0%
To Region 10	500	2.8%
Within Region 5	400	2.6%
To Region 13	400	2.1%
To Region 4	300	1.5%
To all Other Regions	400	2.3%
Other*	1,400	8.3%
Total	17,500	100.0%

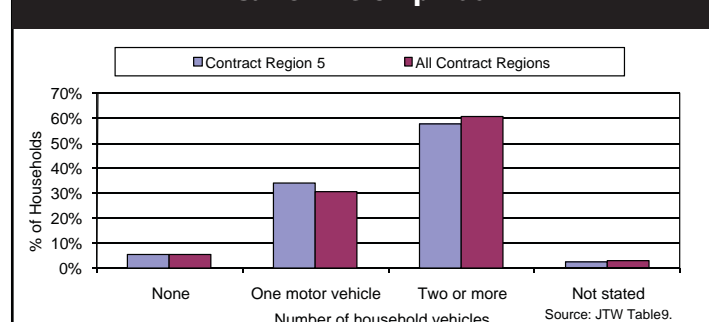
* Includes employees with no fixed workplace address, an unknown workplace address, and people employed outside the 15 Contract Regions.

Around 1,400 workers living in Region 5 travelled to work on Census Day by bus. Most travelled to destinations in the adjoining Region 6 (28%), followed by destinations within Region 5 (24%) and in the neighbouring Region 10 (16%).

Car ownership and mode use by residents of Region 5

The average household car ownership in Region 5 was 1.54 vehicles per household, compared to 1.57 vehicles per household for all Contract Regions. Some 58% of resident workers of Region 5 in 2001 lived in households with two or more vehicles, and only 6% lived in households without a vehicle.

Car Ownership 2001

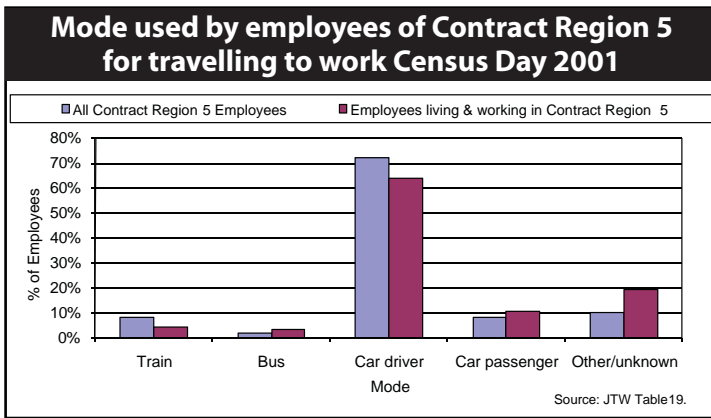


The level of household car ownership and mode used by the resident workforce of Region 5 is presented in the following table. Workers living in households in Region 5 without a car are most likely to travel to work by train, whilst workers living in households with at least one vehicle are most likely to drive themselves to work.

No. of Household Vehicles	JTW Mode Used					Total
	Train	Bus	Car driver	Car passenger	Other	
None	62.6%	6.8%	9.1%	6.5%	14.9%	100.0%
One	31.8%	2.6%	49.0%	8.1%	8.5%	100.0%
Two or more	16.1%	1.1%	69.3%	5.8%	7.7%	100.0%
Not stated	31.5%	3.7%	37.9%	5.3%	21.6%	100.0%
Total	24.5%	2.0%	58.1%	6.6%	8.8%	100.0%

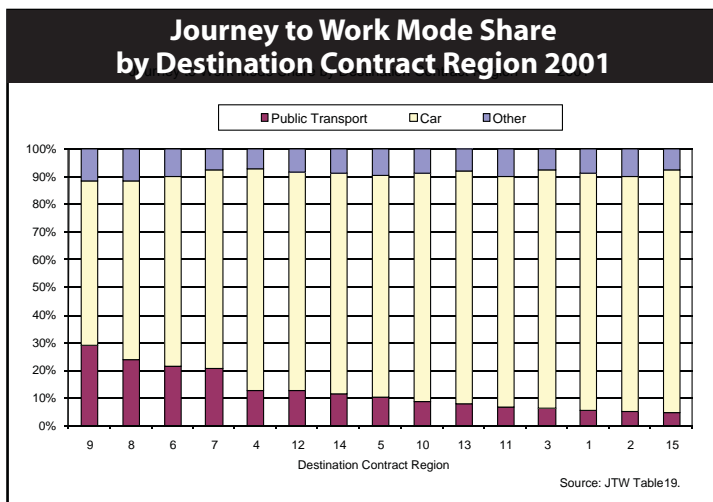
Travelling to work in Region 5

The travel patterns for all workers employed in Contract Region 5, compared to people both living and working in Region 5, are presented in the following graph.



On Census Day 2001 72% of all people employed in Region 5 (includes residents and non-residents) travelled to work as a car driver. For people both living and working in Region 5, 64% drove themselves to work. Resident workers were more likely to be car passengers, travel by bus or use other modes, such as walking.

Mode use for work trips to all Regions is shown in the following graph – it is ordered by the share of public transport trips.



Public transport use tended to be highest to the inner Contract Regions, and lowest to the outer Regions. Region 5 is ranked eighth of the 15 Regions in the use of public transport for commuting to work.

Employment industry & mode used to travel to work in Region 5

Public transport use tends to be higher for people employed in office and centre-related employment industries. Car use tends to be higher for workers employed in industries such as manufacturing, construction and wholesale trade. These patterns of mode share reflect that office-type employment tends to be located in centres which are better

serviced by public transport than more dispersed locations where manufacturing jobs tend to be located. The following table presents mode share by industry of employment in Region 5.

Employment Industries in CR5	Train	Bus	Car driver	Car passenger	Other	Total
Manufacturing	6.8%	1.8%	75.1%	9.3%	7.1%	100.0%
Retail Trade	7.1%	3.0%	66.7%	11.5%	11.6%	100.0%
Property & Bus Services	9.4%	1.7%	74.8%	7.4%	6.7%	100.0%
Wholesale Trade	4.1%	1.4%	80.4%	6.6%	7.5%	100.0%
Education	8.4%	1.6%	79.0%	5.3%	5.5%	100.0%
Health & Comm Services	9.5%	2.7%	68.8%	8.1%	10.9%	100.0%
Construction	5.6%	0.5%	75.3%	6.8%	11.9%	100.0%
Transport and Storage	11.0%	1.2%	65.4%	3.6%	18.8%	100.0%
Personal & Other Services	7.4%	2.0%	71.4%	7.3%	11.9%	100.0%
Accomm, Cafes, Rests	8.2%	3.0%	63.7%	9.8%	15.2%	100.0%
Govt Admin, Defence	16.5%	1.9%	68.3%	4.2%	9.2%	100.0%
Other	8.0%	1.9%	72.2%	7.9%	9.9%	100.0%
Total	9.3%	1.9%	70.5%	6.6%	11.7%	100.0%

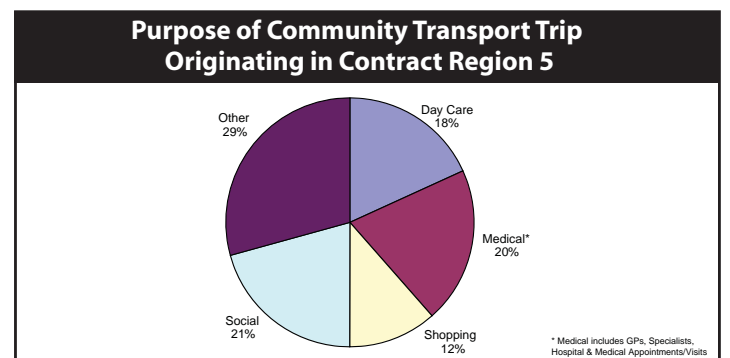
9. Trips by Community Transport

The Ministry of Transport estimates that 19,700 Community Transport trips originated in Contract Region 5 in 2004. Most of these trips were provided by a bus (52%) or car (25%) belonging to the three Community Transport organisations operating in the Region. The main purposes for community transport trips were social outings trips (21%) and medical appointments/visits (20%).

Annual Trips originating in each Contract Region 2004

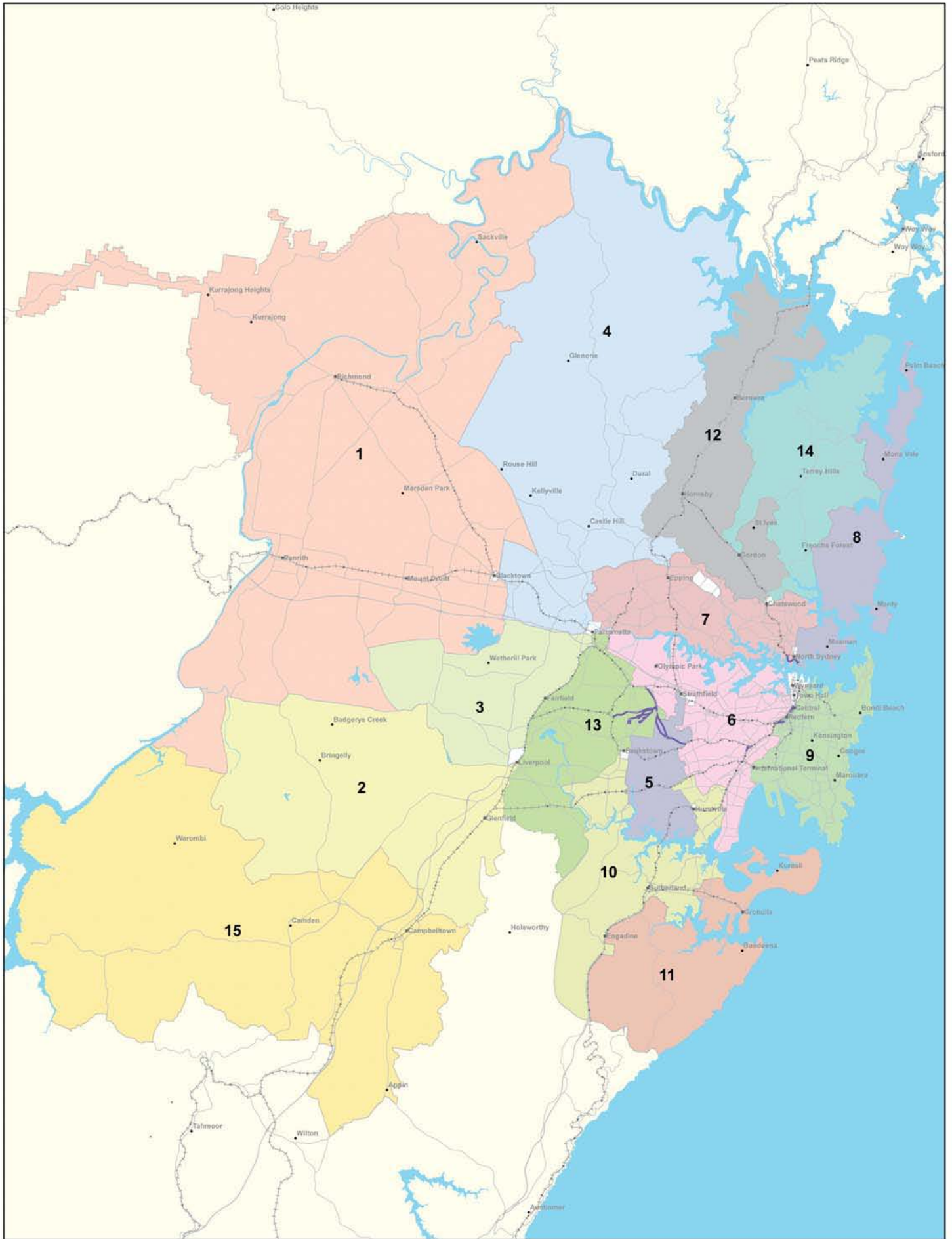
Contract Region	No. Community Transport Trips Originating in Contract Region (annual trips 2004)*	% Community Transport Trips Originating in Contract Region (annual trips 2004)*
1	22,900	10.0%
2	6,900	3.0%
3	8,600	3.8%
4	12,800	5.6%
5	19,700	8.6%
6	23,300	10.2%
7	26,000	11.4%
8	13,300	5.8%
9	23,200	10.1%
10	22,800	10.0%
11	10,000	4.4%
12	7,800	3.4%
13	15,400	6.7%
14	8,500	3.7%
15	7,300	3.2%
Total	228,400	100.0%

* Multiply by 2 to calculate the total number of one-way trips including originating trips and return journeys. Source: Ministry of Transport 2005



* Medical includes GPs, Specialists, Hospital & Medical Appointments/Visits

Appendix 1: Bus Contract Regions in Sydney



Appendix 2: Major Shopping Centres in Contract Region 5

Centre	Major Tenants	Major Tenants m ²	No of Specialties	Specialties m ²	Total Retail m ²	Other Tenants	Other Tenants m ²	Office Tenants m ²	Total Centre m ²	Open Car Bays	Enclosed Car Bays	Total Car	Pedestrian pa
Burwood Plaza	Woolworths, Best & Less, Freshworld, Ron's Discount Variety	6,352	63	4,215	10,567	Gym	1,201	600	12,368	203	331	534	5,200,000
Centro Bankstown	DJs, Kmart, Target, Woolworths, Franklins	33,590	254	31,853	65,443		0	130	65,573	1,755	1,208	2,963	14,000,000
Centro Roselands	Myer, Target, Coles, Food for Less	38,536	169	21,698	60,234	Kar Pro	1,020	302	61,556	1,700	1,900	3,600	8,000,000
Hurstville Super Centre	Duffy Bros	1,200	50	4,850	6,050		0	0	6,050	300	0	300	
Riverwood Plaza	Woolworths, Coles	5,226	37	2,601	7,827		0	0	7,827	0	230	230	2,704,000
South Terrace Plaza, Bankstown	Franklins	2,200	14	1,330	3,530		0	0	3,530	25	160	185	
Strathfield Plaza	Woolworths	2,521	52	4,117	6,638		0	6,844	13,482	209	275	484	
Westfield Burwood	Myer, Kmart, Target, Coles, Woolworths	34,498	234	22,368	56,866	Greater Union, Sundries, Entertainment, Car Wash	6,761	0	63,627	2,940	2,170	5,110	12,500,000
Westfield Hurstville	Myer, Kmart, Target, Coles, Toys R Us, Dan Murphy, Aldi, Food for Less	37,485	240	21,835	59,320	Greater Union, Entertainment	3,267	27	62,614	2,984	0	2,984	15,600,000

Source: Property Council of Australia – NSW/ACT Shopping Centre Directory (2005)

Appendix 3: Schools in Contract Region 5

Government Schools

School	Suburb	Type	Enrolments
Belmore Boys High School	Belmore	H	412
Belmore North Public School	Belmore	P	338
Beverly Hills Girls High School	Beverly Hills	H	1148
Beverly Hills North Public School	Beverly Hills	P	610
Carinya School	Mortdale	S	58
Connells Point Public School	Hurstville South	P	474
Enfield Public School	Enfield	P	262
Georges River College Oatley Senior Campus	Oatley	H	869
Georges River College Peakhurst Campus	Peakhurst	H	629
Georges River College Penshurst Girls Campus	Penshurst	H	651
Greenacre Public School	Greenacre	P	725
Hampden Park Public School	Lakemba	P	631
Hannans Road Public School	Riverwood	P	219
Harcourt Public School	Campsie	P	613
Hurstville South Public School	Hurstville	P	419
Lakemba Public School	Lakemba	P	358
Lugarno Public School	Lugarno	P	340
McCallums Hill Public School	Roselands	P	500
Mortdale Public School	Mortdale	P	365
Mount Lewis Infants School	Greenacre	P	87
Narwee Public School	Narwee	P	246
Oatley Public School	Oatley	P	340
Oatley West Public School	Oatley	P	424
Peakhurst Public School	Peakhurst	P	365
Peakhurst South Public School	Peakhurst	P	264
Peakhurst West Public School	Peakhurst	P	370
Penshurst Public School	Penshurst	P	440
Penshurst West Public School	Mortdale	P	326
Punchbowl Boys High School	Punchbowl	H	285
Punchbowl Public School	Punchbowl	P	630
Riverwood Public School	Riverwood	P	128
Wangee Park School	Lakemba	S	28
Wiley Park Girls High School	Punchbowl	H	605
Wiley Park Public School	Wiley Park	P	509

Source NSW Department of Education & Training Directory 2006 (CD-Rom)

Non-Government Schools

School	Suburb	Type	Enrolments
Al Noori Muslim Primary School	Greenacre	P	190
All Saints Greek Orthodox Grammar School	South Belmore	C	640
Bethany College (Hurstville Campus)	Hurstville	H	750
Holy Saviour School	Greenacre	P	n/a
Holy Spirit College	Lakemba	H	1,059
Marist College Penshurst	Mortdale	H	400
Martin de Porres Middle School	Strathfield	C	n/a
Meriden School	Strathfield	C	850
Noor Al Houda Islamic College	Strathfield	C	650
Regina Coeli School	Beverly Hills	P	n/a
Rissalah College	Lakemba	P	n/a
Santa Maria Del Monte	Strathfield	P	n/a
Santa Sabina College	Strathfield	H	1,450
South East Sydney School for Children with Autism, Caringbah	Caringbah	S	n/a
South East Sydney School for Children with Autism, Peakhurst	Peakhurst	S	n/a
Southside Montessori School	Riverwood	P	n/a
St Anne's School	Strathfield South	P	n/a
St Charbel's College	Punchbowl	C	n/a
St Declan's Primary School	Penshurst	P	n/a
St George Christian School	Hurstville	C	420
St Jerome's School	Punchbowl	P	n/a
St John Vianney's Primary School	Greenacre	P	n/a
St Joseph's School	Moorebank	P	n/a
St Joseph's School	Enfield	P	n/a
St Joseph's School	Belmore	P	n/a
St Martha's School	Strathfield	P	240
St Michael's School	Belfield	P	n/a
St Therese's School	Lakemba	P	n/a
Sydney Adventist College	Strathfield	H	425
Tangara School for Girls (Retaval Infants School Campus, Belfield)	Belfield	I	n/a
Trinity Grammar Preparatory School	Strathfield	P	600

Sources School names -

www2.boardofstudies.nsw.edu.au/links_schools/state_list.cfm?state=NSW (Accessed May 2006) & Enrolment information - www.isd.com.au (Accessed May 2006) & "Your complete guide to secondary schooling in NSW"

Key

H-High School P-Primary C-Combined I-Infants S-Special
n/a-Not available

Information & Coverage

The area covered by this Contract Region, while following geographical features and some local government boundaries, is largely for administrative purposes and is likely to cut across travel patterns and through some communities.

Population, employment and travel information is coded to units (travel zones), some of which straddle the Contract Region's boundaries. Other information might be coded to even larger units such as local government areas, which cut across boundaries. There will be some residents and employees of adjoining Contract Regions that will be affected by decisions relating to Contract Region 5, because they live or work or go to school close to, but outside, the boundary.

Information has been obtained from different sources, which are not necessarily completely consistent, but it provides useful background information to generally assist the bus service planning process. However, care must be taken in the use of the information and readers are referred to the source of particular information of interest for further explanation of collection methods and other possible limitations.

Sources of Information

The main sources of data in this publication are:

- Australian Bureau of Statistics – 2001 Census of Population & Housing (Provided by Transport & Population Data Centre - NSW Department of Planning): population and demographic data
- CityRail – A Compendium of CityRail Travel Statistics (April 2006): Train Station Passenger Counts
- Federal Department of Health website: Aged Care data
- NSW Department of Education & Training 2006 Directory (CD-Rom): Government Schools data
- NSW Board of Studies: Non Government Schools data
- Property Council of Australia: NSW/ACT Shopping Centre Directory 2005
- NSW Department of Planning – City of Cities: A plan for Sydney's future (Dec 2005): Centres
- Transport & Population Data Centre (NSW Department of Planning): Household Travel Survey, Journey to Work data, Facilities data, Geographic data

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Notes:
