

# **Zenith Model of Victoria**

## **Technical Note 1**

### **Data Sources for Model Validation**

Zenith Version 2.0.0

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**Data Sources for Model Validation**

<b>Date</b>	<b>Revision</b>	<b>Prepared By</b>	<b>Checked By</b>	<b>Approved By</b>	<b>Description</b>
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## Appendix A – Train Station Entries

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# 1 INTRODUCTION

Model validation is a process that gauges the ability (or inability) of a model to accurately replicate travel patterns and demands and transport system performance, as observed in the real world. The validation (and recalibration) of the Zenith model will comprise of several elements. The main focus of the model validation process is the comparison of the model's base year (2008) public transport and road travel predictions against recent observed travel demands for the entire metropolitan transport system.

This technical note outlines the data sources available for model validation, and sets out the DOT's standard model validation criteria, to which the model can be subjected.

## 1.1 DOT Model Validation Criteria

The DOT has provided a draft copy of their recently established model validation criteria document. In summary, the recommended model validation criteria for Public Transport Assignment are summarised in Table 1, while the model validation criteria for Highway Assignment are summarised in Table 2.

In general, the data has been based (where possible) on the following:

Month:	March, May, August and October (months without major holiday periods).
Day:	Weekday only (24 hours)
Time Periods	AM Peak = 7:00-9:00am, PM Peak = 4:00-6:00pm, Daily



Section	Check	Segmentation	Desired Criteria	Data Source	Notes
2.1.1	Train boardings and alightings by time of day	By Group, By Line	$\pm 15\%, \pm 25\%$	2008 Estimates, based upon station validations	Alightings are yet to be provided to VLC
		By Station – inner Core / Outer	$R^2 \geq 0.85$ $X \text{ coefficient} > 0.9 \text{ \& } < 1.1$		
2.1.2	Train loads at CBD cordon and screenlines by time of day	Group	$\pm 15\%$	2008 annual train cordon surveys	Definitions of train screenlines are yet to be provided to VLC
		By Line	$R^2 \geq 0.85$ $X \text{ coefficient} > 0.9 \text{ \& } < 1.1$		
2.1.3	Access modes at train stations by time of day (% Park & Ride, Walk, Bus, Tram)	Network-wide	Professional judgement	2009 Rail Origin Destination survey	Survey yet to be processed by VLC
2.1.4	Transfers (rail to rail)	Network-wide	Professional judgement	2009 Rail Origin Destination survey	Survey yet to be processed by VLC
2.3.1	Tram boardings by time of day	Total	$\pm 15\%$	2008 Tram Origin Destination survey	Survey yet to be provided to VLC
		By Route	$R^2 \geq 0.85$ $X \text{ coefficient} > 0.9 \text{ \& } < 1.1$		
2.3.2	Tram loads at CBD cordon and screenlines by time of day	By Direction	$\pm 15\%$	2008 Tram Origin Destination survey	Yet to be provided to VLC & definitions of tram screenlines are yet to be provided to VLC
2.4.1	Bus boardings by time of day	By Service Type	$\pm 25\%$	2008 Estimates, based upon station validations	Consistency issues may occur due to significant and rapid changes in the bus network (e.g. implementation of SmartBuses)
		By Route	$R^2 \geq 0.75$ $X \text{ coefficient} > 0.9 \text{ \& } < 1.1$		
2.5.1	Travel times compared to timetable	Route or group of routes	Professional judgement	Metlink Time tables	visual analysis

**Table 1 – DOT Public Transport Assignment Validation Criteria**



Section	Check	Segmentation	Desired Criteria	Data Source	Notes
2.6.1	Compare modelled flows with Total Screenline volumes	By Direction (Inbound/Outbound) and Time of Day	% Diff $\pm 50 \times V^{-0.3953}$ (2hr Peak) % Diff $\pm 80.145 \times V^{-0.3953}$ (24 hr)	2006 VicRoads Screenline Traffic counts	
2.6.1	Compare modelled hourly flows on individual links to observed counts	By Direction (Inbound/Outbound) and Time of Day	$R^2 \geq 0.85$ X coefficient $> 0.9$ & $< 1.1$	2006 VicRoads Screenline Traffic counts	
			%RMSE $< 30\%$		
		By time of day	60% individual links GEH $< 5$ 95% individual links GEH $< 10$ 100% individual links GEH $< 12$		
2.6.2	Travel times	Travel Time Route and Time of Day	Professional judgement	2008/09 VicRoads travel time surveys	visual analysis
2.6.2	Speeds	Road Type, Location and Time of Day	Professional judgement	2008/09 VicRoads travel time surveys	visual analysis

**Table 2 – DOT Highway Assignment Validation Criteria**



Note that these criteria are still being developed by DOT and are subject to comment and review. It is worth noting that there is no guidance on scaling up or down survey data that relates to a different year from the modelled base. For example, the latest screenline surveys were conducted in 2006, while the base model demographic and networks reflect 2008 conditions. The surveys were conducted before the completion of several major projects such as EastLink, Pakenham Bypass, Deer Park Bypass, Tullamarine/Calder Freeway Interchange, removal of public transport fare zone 3 etc.

The criteria also do not make any allowances for varying degrees of accuracy between a two hour peak and a daily surveys; that is, the criteria are equally stringent in the AM 2 hour peak and the daily model.

## 1.2 Summary of Survey Data for Value Added Comparisons

While no validation criteria or targets currently exist for this data, VLC will review the survey information listed in Table 3 in order to potentially utilise it for the **Value Added Comparisons** of the Zenith model.

Section	Check	Source
3.1.1	CBD Station Entries and Exits	2008 Estimates, based upon station validations
3.1.2	Transfers (rail to rail) by Station	2009 Rail Origin Destination survey
3.1.3	V/Line Train Boardings	2008 on-board conductor surveys
3.2.1	Tram Line Load Profiles	2008 Tram Origin Destination survey
3.3.1	Compare modelled flows (all vehicle and commercial vehicles) on individual links to observed counts – additional traffic surveys	2008 VicRoads Homogeneous Traffic Volume Network (HTVN) database
3.3.2	Compare modelled Commercial Vehicle flows with Total Screenline volumes	2006 VicRoads Screenline Traffic counts

**Table 3 – Available Survey Data for Value Added Comparisons**





## 2 MODEL VALIDATION DATA

### 2.1 METROPOLITAN TRAIN SURVEYS

#### 2.1.1 Train Station Entries

2008 train station entries have been estimated by applying 2006 validation rates to 2008 validations for each station, using the following formula:

$$\text{PATRONAGE}(i,j) = \text{VALIDATIONS}(i,j) / \text{VALIDATION RATE}(i,j)$$

where      **i= station (from Metlinks 2006 O-D survey)**  
              **j= hour of day**

Table 4 shows the 2008 estimates of total train station entries, while Table 5 shows the train station entries by line segment (based on average weekday validations for March, May, August and October 2008 and the 2006 validation rates). The individual train station entries can be seen in Table 16 in Appendix A.

**Table 4 – 2008 Estimates of Total Train Station Entries**

Time Period	Station Entries
Whole Day	683,000
AM peak (2 hours)	172,000
PM Peak (2 hours)	153,000



**Table 5 – 2008 Estimates of Train Station Entries by Line Segment**

Group	Line Corridor	Line Segment	All day	AM Peak	Interpeak	PM Peak
Burnley	Camberwell Corridor	Riversdale-Alamein	5,883	3,187	378	449
		Ringwood East-Lilydale	9,990	4,424	843	706
		Heathmont-Belgrave	13,464	5,232	774	1,328
		East Richmond-Camberwell	29,167	6,416	1,758	6,965
		East Camberwell-Ringwood	41,874	14,955	3,013	5,594
	Glen Waverley Line	Heyington-Glen Waverley	26,630	10,733	1,905	3,127
Caulfield	Dandenong Corridor	Merinda Park-Cranbourne	3,033	1,107	251	258
		Hallam-Pakenham	10,536	4,295	699	810
		Carnegie-Dandenong	44,205	14,683	4,028	6,054
	Frankston Line	Glenhuntly-Frankston	44,388	16,382	3,411	4,889
	Sandringham Line	Prahran-Sandringham	28,258	10,100	2,293	4,230
	Hawksburn-Caulfield	Hawksburn-Caulfield	17,740	4,815	1,642	3,264
Clifton Hill	Epping Line	Rushall-Epping	24,190	8,510	2,018	2,544
	Hurstbridge Line	Westgarth-Hurstbridge	29,698	12,641	1,950	2,605
	Jolimont-Clifton Hill	Jolimont-Clifton Hill	10,013	2,117	816	2,451
Inner City / City Loop	City Loop	City Loop	212,864	7,026	8,074	91,806
	North Melbourne	North Melbourne	2,073	349	138	652
	Richmond	Richmond	6,650	1,201	361	1,744
	South Yarra	South Yarra	9,687	1,975	579	2,330
Northern	Craigieburn Line	Kensington-Craigieburn	31,887	13,171	2,765	2,864
	Newport Corridor	North Williamstown-Williamstown	3,921	1,483	354	228
		Seddon-Newport	9,891	4,281	714	951
		Sth Kensington-Footscray	12,576	2,848	1,356	1,907
		Seaholme-Werribee	16,183	6,469	1,326	1,141
	Sydenham Line	Middle Footscray-Sunshine	9,164	3,160	983	1,021
		Albion-Sydenham	15,595	6,319	1,425	1,395
	Upfield Line	Macauly-Upfield	13,556	4,449	1,121	1,980
		Total Metro Rail	683,116	172,327	44,973	153,292

## 2.1.2 Inbound CBD Cordon and Screenline Train Loads

Table 6 shows the AM peak inbound train loads at the CBD cordon (arriving at North Melbourne, Richmond and Jolimont Stations) collected during the annual train cordon surveys. Screenline analysis of train loads will commence upon receipt of information relating to the location of proposed public transport screenlines.



**Table 6 – AM peak Inbound CBD Cordon Train Loads, 2004 to 2009**

	2004	2005	2006	2007	2008	2009
Northern	22,528	24,202	26,828	31,491	35,150	35,376
Clifton Hill	13,385	13,810	14,902	15,802	17,019	16,184
Burnley	26,081	26,698	27,905	29,353	31,137	29,683
Caulfield	28,232	30,271	32,110	35,813	36,741	36,658
<b>TOTAL</b>	<b>90,226</b>	<b>94,981</b>	<b>101,745</b>	<b>112,459</b>	<b>120,047</b>	<b>117,901</b>
Williamstown	2,811	2,705	3,290	3,857	4,029	3,656
Werribee	4,285	4,611	5,185	6,302	7,075	7,482
Sydenham	5,691	6,274	6,864	8,817	8,898	9,434
Craigieburn	7,545	8,163	8,733	9,373	11,805	11,416
Upfield	2,197	2,450	2,757	3,141	3,344	3,388
Epping	4,893	5,088	5,597	6,005	6,549	6,313
Hurstbridge	8,493	8,723	9,305	9,802	10,471	9,871
Camberwell Corridor	19,792	19,976	20,974	21,886	23,126	22,241
Glen Waverley	6,289	6,722	6,931	7,467	8,011	7,442
Dandenong	11,362	12,096	13,264	14,768	15,889	16,545
Frankston	10,436	10,843	11,617	12,597	12,595	12,104
Sandringham	6,434	7,332	7,229	8,447	8,257	8,009

### 2.1.3 Mode of Access to Train Stations

The breakdown of boardings by mode of access for each rail station will be available from the 2009 Rail Origin Destination survey. The following categories can be used:

OD Survey Mode of Access (% of total)	Zenith Mode of Access (% of total)
Walked all the way + Bicycle	Walk/cycle
Car as driver + Car as passenger	Car (park and ride / kiss and ride)
Train	Train to Train transfers
Tram	Tram to train interchange
Bus	Bus to train interchange
Total	Total

A summary of this data is not currently available for this report as it has not been provided to VLC, however it should be able to be extracted from the 2009 Rail Origin Destination survey if required.

### 2.1.4 Total Train Station Transfers

The total train transfers (train to train interchanges) across the entire network will be available from the 2009 Rail Origin Destination survey.

A summary of this data is not currently available for this report as it has not been provided to VLC, however it can be extracted from the 2009 Rail Origin Destination survey if required.

## 2.2 REGIONAL TRAIN SURVEYS

Model validation in comparison to the regional data listed below is included in the VLC report titled "Regional Zenith Model Development, 17 January 2012" for the Rail Revival study.



## 2.2.1 V/Line Rail Boardings

V/Line rail boarding data was provided by DOT for the year of 2008 and can be seen in Table 7. It includes AM peak inbound (towards Melbourne), PM peak outbound and two-way daily boardings. Trains approaching Southern Cross in the morning peak were classified as AM peak services, and departing Southern Cross in the evening peak were classified as PM peak services.

**Table 7 – VLine Train Patronage - 2008**

	2008 Boarding Inbound	2008 Boarding Outbound	2008 Boarding Both Directions
	Count	Count	Count
GEELONG CORRIDOR	AM Peak	PM Peak	Daily
Train Station (VLC/Metlink)			
Newport Railway Station (Newport)	-	19	54
Werrimbee Railway Station (Werrimbee)	4	43	235
Little River Railway Station (Little River)	27	2	51
Lara Railway Station (Lara)	331	7	638
Corio Railway Station (Corio)	15	2	54
North Shore Railway Station (North Shore)	16	2	66
North Geelong Railway Station (North Geelong)	500	7	825
Geelong Railway Station (Geelong)	579	10	1,823
South Geelong Railway Station (South Geelong)	796	4	1,414
Marshall Railway Station (Marshall)	203	-	320
Winchelsea Railway Station (Winchelsea)	-	-	12
Birregurra Railway Station (Birregurra)	-	-	6
Colac Railway Station (Colac)	-	-	70
Camperdown Railway Station (Camperdown)	-	-	36
Terang Railway Station (Terang)	-	-	25
Sub-Total	2,470	94	5,630
BALLARAT CORRIDOR	Count	Count	Count
Train Station (VLC/Metlink)	AM Peak	PM Peak	Daily
Ardeer Railway Station (Ardeer)	54	3	80
Deer Park Railway Station (Deer Park)	90	2	132
Rockbank Railway Station (Rockbank)	12	1	21
Melton Railway Station (Melton South)	846	46	1,745
Bacchus Marsh Railway Station (Maddingley)	402	7	801
Ballan Railway Station (Ballan)	91	3	199
Ballarat Railway Station (Ballarat Central)	550	-	1,464
Beaufort Railway Station (Beaufort)	-	-	15
Ararat Railway Station (Ararat)	-	-	75
Sub-Total	2,045	62	4,532
BENDIGO CORRIDOR	Count	Count	Count
Train Station (VLC/Metlink)	AM Peak	PM Peak	Daily
Ginifer Railway Station (Sunshine North)	6	-	6
St Albans Railway Station (St Albans)	11	25	47
Watergardens Railway Station (Sydenham)	44	10	230
Diggers Rest Railway Station (Diggers Rest)	130	3	202
Sunbury Railway Station (Sunbury)	992	15	1,596
Clarkfield Railway Station (Clarkfield)	60	2	78
Riddells Creek Railway Station (Riddells Creek)	153	1	203
Gisborne Railway Station (New Gisborne)	167	4	318
Macedon Railway Station (Macedon)	76	2	113
Woodend Railway Station (Woodend)	177	8	365
Kyneton Railway Station (Kyneton)	120	4	326
Malmsbury Railway Station (Malmsbury)	13	1	38
Castlemaine Railway Station (Castlemaine)	117	12	529
Kangaroo Flat Railway Station (Kangaroo Flat)	17	-	66
Bendigo Railway Station (Bendigo)	146	-	927
Eaglehawk Railway Station (Eaglehawk)	4	-	9
Dingee Railway Station (Dingee)	-	-	3
Pyramid Railway Station (Pyramid Hill)	-	-	5
Sub-Total	2,232	88	5,061
SEYMOUR CORRIDOR	Count	Count	Count
Train Station (VLC/Metlink)	AM Peak	PM Peak	Daily
Essendon Railway Station (Essendon)	9	3	7
Broadmeadows Railway Station (Broadmeadows)	-	44	154
Craigieburn Railway Station (Craigieburn)	-	2	40
Donnybrook Railway Station (Donnybrook)	43	7	62
Wallan Railway Station (Wallan)	172	3	290
Heathcote Junction Railway Station (Heathcote Junction)	25	1	42
Wandong Railway Station (Wandong)	39	2	83
Kilmore East Railway Station (Kilmore East)	112	7	269
Broadford Railway Station (Broadford)	64	3	201
Tallaroak Railway Station (Tallaroak)	12	1	25
Seymour Railway Station (Seymour)	67	-	374
Sub-Total	542	72	1,546
TRARALGON CORRIDOR	Count	Count	Count
Train Station (VLC/Metlink)	AM Peak	PM Peak	Daily
Flinders Street Railway Station (Melbourne City)	-	235	589
Richmond Railway Station (Richmond)	-	58	125
Caulfield Railway Station (Caulfield East)	-	34	99
Clayton Railway Station (Clayton)	-	24	59
Dandenong Railway Station (Dandenong)	-	55	175
Berwick Railway Station (Berwick)	-	-	8
Pakenham Railway Station (Pakenham)	148	33	442
Nar Nar Goon Railway Station (Nar Nar Goon)	13	2	32
Tynong Railway Station (Tynong)	8	2	22
Garfield Railway Station (Garfield)	43	6	93
Bunyip Railway Station (Bunyip)	13	2	46
Longwarry Railway Station (Longwarry)	12	3	42
Drouin Railway Station (Drouin)	87	9	313
Warragul Railway Station (Warragul)	130	24	528
Yarragon Railway Station (Yarragon)	4	2	36
Trafalgar Railway Station (Trafalgar)	12	7	290
Moe Railway Station (Moe)	64	11	441
Monwell Railway Station (Monwell)	43	6	488
Traralgon Railway Station (Traralgon)	57	-	442
Sub-Total	634	512	4,268
TOTAL	7,923	829	21,098
SHARED STATIONS	Count	Count	Count
Train Station (VLC/Metlink)	AM Peak	PM Peak	Daily
Southern Cross Railway Station (Melbourne City)	4	5,151	11,672
North Melbourne Railway Station (West Melbourne)	-	1,096	1,648
Footscray Railway Station (Footscray)	5	172	501
Sunshine Railway Station (Sunshine)	13	127	313
Sub-Total	22	6,546	14,134
TOTAL	7,945	7,374	35,232

## 2.2.2 V/Line Coach Boardings

V/Line coach boarding data was provided by DOT for the year of 2008 and can be seen in Table 8. There is a lot of inconsistency within the observed data and should be used cautiously. An example is the Geelong to Apollo Bay coach and its return route which have significantly different daily observed numbers.



**Table 8 – VLine Coach Patronage – 2008**

	2008
	Boarding
Route Description	Count
	Daily
Maryborough to Castlemaine via Strangways	75
Castlemaine to Maryborough	83
Apollo Bay to Geelong	173
Geelong to Apollo Bay via City > Station	28
Ballarat to Geelong via station>city	57
Geelong to Ballarat via City > Station	53
Bendigo to Geelong	53
Geelong to Bendigo via Sovereign Hill	47
Ballarat to Bendigo via Lockwood	11
Bendigo to Ballarat via Lockwood	10
Ballarat to Horsham	22
Dimboola to Ballarat via Dadswells Bridge	46
Nhill to Ballarat	40
Donald to Ballarat	67
Ballarat to Donald	24
Southern Cross Station (Spencer Street) to Mildura	32
Mildura to Southern Cross Station (Spencer Street)	25
Hamilton to Ballarat	18
Ballarat to Hamilton	17
Ballarat to Mount Gambier (SA)	26
Mount Gambier (SA) to Ballarat	23
Ouyen to Ballarat via Minyip	30
Ballarat to Ouyen via Minyip	28
Warrnambool to Ballarat via Ballarat Hospital	15
Ballarat to Warrnambool via Ballarat Hospital	15
Warrnambool to Apollo Bay	4
Apollo Bay to Warrnambool	9
Ballarat to Southern Cross Station (Spencer Street)	44
<b>TOTAL</b>	<b>1076</b>



## 2.3 TRAM SURVEYS

### 2.3.1 Tram Boardings

Total tram patronage will be sourced from the 2008 Origin Destination survey. This survey data has only recently become available, and has not been provided to VLC at the time of writing this report.

Previous work conducted by VLC used 2008 estimates which were based upon the 2005 Origin Destination survey and factored generically by total tram boarding growth rates for last three years (+15.8%).

**Table 9 – Estimates of Total Tram Boardings**

Time Period	Total Boardings (2005)	Total Boardings (2008)
Whole Day	472,000	To be included upon
AM peak (2 hours)	79,000	receipt of the 2008
PM Peak (2 hours)	82,000	Origin Destination survey

While not being utilised for this project, Table 10 shows the 2005 Origin Destination survey results for tram boardings by tram route by direction, for display purposes only.

**Table 10 – 2005 Tram Boardings**

Route	<----- Boardings Down ----->				<----- Boardings Up ----->			
	AM Peak	Interpeak	PM Peak	Day	AM Peak	Interpeak	PM Peak	Day
1	1,509	1,043	1,927	11,062	1,927	1,098	1,528	11,057
3	2,171	980	1,133	9,301	686	554	1,430	6,567
5	1,337	651	1,193	6,848	776	535	1,406	8,173
6	1,855	853	955	7,933	1,105	507	1,343	7,314
8	2,994	1,168	2,134	12,397	2,071	1,083	2,519	12,917
16	1,478	1,753	2,129	12,043	1,770	1,658	1,803	11,801
19	2,324	1,810	3,093	16,335	3,526	2,261	2,391	15,738
22								
24	0	0	707	707	432	0	0	432
30	318	264	940	2,580	684	273	569	2,401
48	853	525	1,882	8,907	2,326	784	1,073	8,882
55	860	397	2,051	6,723	2,409	662	1,057	7,393
57	523	972	2,395	8,853	1,271	1,309	691	7,331
59	1,693	1,079	2,444	12,762	1,852	1,429	1,599	10,640
64	1,415	880	875	7,246	897	492	1,145	6,632
67	1,754	1,080	705	8,024	965	770	1,240	7,628
68								
69								
70	583	564	1,080	6,464	1,568	680	507	6,185
72	1,668	1,451	1,705	10,309	947	699	2,076	8,546
75	1,132	973	1,706	9,930	1,434	1,141	1,258	9,151
78	574	514	948	4,209	394	507	931	3,923
79				732				836
82	363	293	342	2,182	195	337	436	2,453
86	1,657	2,119	3,815	19,462	2,383	2,379	3,119	17,862
96	3,681	1,913	2,869	16,989	3,667	1,279	3,351	16,807
109	4,081	2,326	3,642	22,774	4,462	2,710	2,769	20,691
112	2,667	1,899	4,697	20,002	3,487	1,982	2,312	16,248
TOTAL	37,486	25,502	45,361	244,767	41,232	25,126	36,547	227,603



### 2.3.2 CBD Cordon Tram Loads

The total CBD cordon tram loads will also be sourced from the 2008 Origin Destination survey. While not being utilised for this project, Table 11 shows the 2008 estimates of CBD cordon tram loads (based upon the 2005 Origin Destination survey and factored generically by +15.8%) for display purposes only.

**Table 11: 2008 Estimates of CBD Cordon Tram Loads**

Direction	Location	Screenline	AM Peak
IN	8-Franklin St/William St (Melbourne City)	NW	1517
IN	6-Franklin St/Elizabeth St (Melbourne City)	NW	4083
IN	7-Franklin St/Swanston St (Melbourne City)	NW	2365
IN	9-La Trobe St/Victoria St (Melbourne City)	NW	737
IN	10-Albert St/Nicholson St (Fitzroy)	NE	2972
IN	10-Parliament	NE	4294
IN	9-Lansdowne St/Wellington Pde (East Melbourne)	NE	2139
IN	7A-William Barak Bridge/Melbourne Park (Melbourne City)	SE - no count	n/a
IN	14-Arts Centre/St Kilda Rd (Southbank)	SE	5754
IN	112-Casino East/Queens Bridge St (Southbank)	SE	566
IN	124A-Casino/MCEC/Clarendon St (Southbank)	SE	5080
IN	D5-The Goods Shed/Wurundjeri Way (Docklands)	SW - no count	n/a
IN	D15-Batman's Hill/700 Collins St (Docklands)	SW - no count	n/a
IN	D1-Etihad Stadium/La Trobe St (Docklands)	SW	442
OUT	8-Franklin St/William St (Melbourne City)	NW	345
OUT	6-Franklin St/Elizabeth St (Melbourne City)	NW	3361
OUT	7-Franklin St/Swanston St (Melbourne City)	NW	4842
OUT	9-La Trobe St/Victoria St (Melbourne City)	NW	166
OUT	10-Albert St/Nicholson St (Fitzroy)	NE	1604
OUT	10-Parliament	NE	1188
OUT	9-Lansdowne St/Wellington Pde (East Melbourne)	NE	818
OUT	7A-William Barak Bridge/Melbourne Park (Melbourne City)	SE - no count	n/a
OUT	14-Arts Centre/St Kilda Rd (Southbank)	SE	6548
OUT	112-Casino East/Queens Bridge St (Southbank)	SE	578
OUT	124A-Casino/MCEC/Clarendon St (Southbank)	SE	2321
OUT	D5-The Goods Shed/Wurundjeri Way (Docklands)	SW - no count	n/a
OUT	D15-Batman's Hill/700 Collins St (Docklands)	SW - no count	n/a
OUT	D1-Etihad Stadium/La Trobe St (Docklands)	SW	459



## 2.4 BUS SURVEYS

### 2.4.1 Bus Boardings by Routes and Series

Bus patronage has been estimated using validations from March, May, August and October in 2008 and the following formula:

$$\text{PATRONAGE}(i,j) = \text{VALIDATIONS}(i,j) / \text{VALIDATION RATE}$$

where      **i= route**  
              **j= hour of day**

A uniform validation rate of 89% has been applied to all routes. Table 12 provides a summary for average weekday boardings for several time periods for groups of routes.

**Table 12 – 2008 Estimates of Bus boardings – Average Weekday (by collections of route and time of day)**

Routes	All Day	7:00–9:00am	4:00–6:00pm
200 series	51,920	10,734	9,486
300 series	18,779	5,759	3,994
400 series	58,347	12,902	9,897
500 series	52,772	11,105	9,163
600 series	34,891	8,321	6,471
700 series	62,076	13,205	11,550
800 series	48,804	9,898	8,501
900 series	12,426	2,183	2,281
<b>TOTAL</b>	<b>340,016</b>	<b>74,106</b>	<b>61,344</b>

Notes: Zenith Bus Network is based upon 2009 bus service plan, which is different from the 2005 bus surveys

Differences between the survey data and modelled bus route results may be caused by inconsistencies between the Zenith model (based upon the MetLink 2009 bus service plan) and the 2008 estimates of bus boardings, which are based upon the 2005 bus service plan. Bus routes included in the 2009 bus service plan (but not included in the 2005 bus surveys) include 238, 280, 282, 318, 431, 490, 525, 687, 692, 706, 777, 778, 796, 842, 903 & telebus. Bus routes removed between 2005 and 2009 include 283, 289, 291, 365, 429, 430, 513a, 581, 665, 674, 700, 768, 830, 831, 942, 944, 966, 968, 970 & 980.

## 2.5 PUBLIC TRANSPORT TRAVEL TIMES

### 2.5.1 MetLink time tables

The Zenith public transport networks are developed by utilising the MetLink journey planner database, which can be used to maintain the public transport network (alignment and service frequencies). This database also contains the MetLink timetable information for each public transport service. Therefore, it should also be able to be used to estimate travel times and average speeds across a link, based upon the timetables. Upon completion, average link speeds can be visually analysed using the OmniTRANS software. This database has not yet been processed by VLC, so any interim analysis or plots are not currently available.





## 2.6 TRAFFIC SURVEYS

### 2.6.1 Screenline Traffic Counts

Table 13 shows a summary of the 2006 VicRoads screenline (all vehicle) traffic counts. The individual 2006 VicRoads screenline traffic counts (by time period, direction and vehicle classification where available) can be seen in Appendix B.

**Table 13 – Summary of the 2006 VicRoads Screenline Traffic Counts**

Screenline	All Vehicles, 2 way					
	AM		PM		Daily	
	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound
900	29,246	13,580	16,254	31,745	140,753	139,132
901	94,721	67,289	78,811	99,264	571,987	568,564
902	92,716	53,379	62,357	88,427	501,356	503,133
903	60,751	50,500	55,573	58,728	361,428	356,017
904	26,084	14,203	16,405	28,898	129,174	131,398
905	9,033	6,017	7,571	9,619	50,450	51,082
906	69,439	48,233	53,867	70,405	403,682	404,619
907	18,362	14,457	16,090	18,940	111,254	113,038
908	51,775	31,621	37,038	52,076	277,776	275,253
909	93,949	76,720	77,810	92,945	563,163	579,565
910	66,646	44,410	50,239	65,367	362,172	364,222
911	95,965	50,748	59,136	92,965	468,901	461,524
912	25,720	22,536	25,360	28,275	176,227	177,805
913	30,314	18,940	23,352	31,369	173,522	171,302
914	44,422	20,843	24,239	50,569	215,504	225,622
915	5,506	4,269	4,910	6,549	34,581	35,745
916	48,228	28,619	35,787	55,776	267,746	277,316
917	2,625	1,341	1,776	3,014	13,437	13,985
918	23,318	13,063	14,488	20,792	117,579	117,203
919	18,265	8,327	10,750	19,536	88,482	90,004
920	26,669	17,032	19,586	24,677	149,858	150,275
	933,754	606,127	691,399	949,936	5,179,032	5,206,804

The following locations are not included as these roads are not in the Zenith model:

901 Downing St N of Boundary Rd  
901 Faulkners Rd N of Boundary Rd  
905 Derril Rd N of Mornington-Tyabb Rd

### 2.6.2 Car Travel Time Surveys

2008/09 travel time information has been collected by VicRoads for various arterial roads in the Melbourne metropolitan area. This updated travel time data is currently being incorporated into the Zenith model for analysis. Upon completion, average travel times and link speeds can be visually analysed using the OmniTRANS software.



### 3 VALUE ADDED COMPARISONS

#### 3.1 TRAIN SURVEYS

##### 3.1.1 CBD Station Entries and Exits

Table 14 provides the number of train station entries and exits (by time period) for CBD and barrier stations (inclusive of adjustment reflecting validation rates).

**Table 14 – 2008 Train Station Entries & Exits**

<b>Entries</b>								
	<b>Flinders Street</b>	<b>Southern Cross (Spencer St.)</b>	<b>Flagstaff</b>	<b>Melbourne Central</b>	<b>Parliament</b>	<b>Richmond</b>	<b>South Yarra</b>	<b>Box Hill</b>
<b>AM Peak</b>	3,709	1,361	411	764	896	1,249	3,054	2,858
<b>Interpeak</b>	3,649	1,069	431	1,734	1,134	366	859	895
<b>PM Peak</b>	30,738	15,277	9,830	17,243	19,361	1,525	3,457	2,150

<b>Exits</b>								
	<b>Flinders Street</b>	<b>Southern Cross (Spencer St.)</b>	<b>Flagstaff</b>	<b>Melbourne Central</b>	<b>Parliament</b>	<b>Richmond</b>	<b>South Yarra</b>	<b>Box Hill</b>
<b>AM Peak</b>	24,097	15,661	12,768	16,565	23,315	1,662	3,724	2,106
<b>Interpeak</b>	6,628	2,246	1,385	7,491	3,358	370	660	722
<b>PM Peak</b>	8,249	2,146	402	2,149	1,068	1,014	2,003	2,476

##### 3.1.2 Train Station Transfers

A summary of the train transfers (train to train interchanges) at each individual train station is not currently available as it has not been provided to VLC, however it can be extracted from the 2009 Rail Origin Destination survey if required.

##### 3.1.3 V/Line Train Boardings

2008 V/Line train boardings have been estimated from the 2008 on-board conductor surveys. Table 15 shows the V/Line train boardings by station.



**Table 15 V/Line Train Boardings by Station**

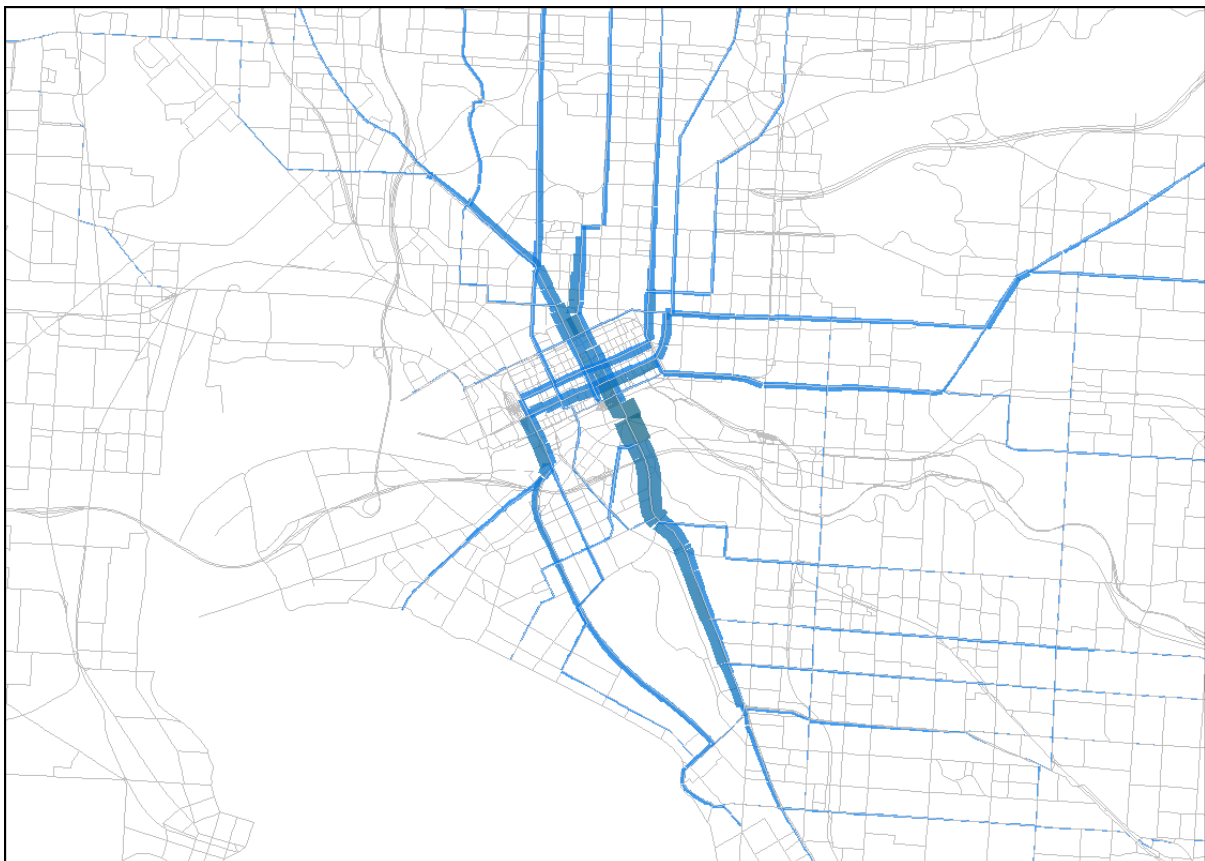
VLine Boardings - 2008	2008	2008	2008
Morning Peak Count: 6.00am - 9.30am	Boarding	Boarding	Boarding
Afternoon Peak Count: 4.00pm - 6.30pm	Inbound	Outbound	Both Directions
	Count	Count	Count
GEELONG CORRIDOR	AM Peak	PM Peak	Daily
<b>Train Station (VLC/Metlink)</b>			
Newport Railway Station (Newport)	-	17	45
Werrimbee Railway Station (Werrimbee)	3	46	224
Little River Railway Station (Little River)	33	1	48
Lara Railway Station (Lara)	406	5	644
Corio Railway Station (Corio)	22	1	47
North Shore Railway Station (North Shore)	25	24	85
North Geelong Railway Station (North Geelong)	570	87	875
Geelong Railway Station (Geelong)	705	21	1,695
South Geelong Railway Station (South Geelong)	944	4	1,444
Marshall Railway Station (Marshall)	242	3	354
Winchelsea Railway Station (Winchelsea)	6	5	16
<b>Sub-Total</b>	<b>2,955</b>	<b>215</b>	<b>5,477</b>
BALLARAT CORRIDOR	AM Peak	PM Peak	Daily
<b>Train Station (VLC/Metlink)</b>			
Ardeer Railway Station (Ardeer)	63	3	85
Deer Park Railway Station (Deer Park)	117	2	148
Rockbank Railway Station (Rockbank)	20	1	27
Melton Railway Station (Melton South)	1,304	4	1,825
Bacchus Marsh Railway Station (Maddingley)	513	6	779
Ballan Railway Station (Ballan)	122	2	246
Ballarat Railway Station (Ballarat Central)	607	-	1,450
Wendouree Railway Station (Wendouree)	Opened 2009	Opened 2009	Opened 2009
<b>Sub-Total</b>	<b>2,745</b>	<b>17</b>	<b>4,561</b>
BENDIGO CORRIDOR	AM Peak	PM Peak	Daily
<b>Train Station (VLC/Metlink)</b>			
Ginifer Railway Station (Sunshine North)	-	2	8
St Albans Railway Station (St Albans)	-	16	27
Watergardens Railway Station (Sydenham)	1	17	176
Diggers Rest Railway Station (Diggers Rest)	103	2	136
Sunbury Railway Station (Sunbury)	1,186	18	1,791
Clarkefield Railway Station (Clarkefield)	73	-	81
Riddells Creek Railway Station (Riddells Creek)	151	1	193
Gisborne Railway Station (New Gisborne)	182	2	312
Macedon Railway Station (Macedon)	70	0	111
Woodend Railway Station (Woodend)	199	3	370
Kyneton Railway Station (Kyneton)	151	4	345
Malmsbury Railway Station (Malmsbury)	17	0	38
Castlemaine Railway Station (Castlemaine)	138	13	602
Kangaroo Flat Railway Station (Kangaroo Flat)	26	1	103
Bendigo Railway Station (Bendigo)	168	-	925
Eaglehawk Railway Station (Eaglehawk)	3	-	10
<b>Sub-Total</b>	<b>2,467</b>	<b>79</b>	<b>5,230</b>
ECHUCA CORRIDOR	AM Peak	PM Peak	Daily
<b>Train Station (VLC/Metlink)</b>			
Elmore Railway Station (Elmore)	-	-	6
<b>Sub-Total</b>	<b>-</b>	<b>-</b>	<b>6</b>
SEYMOUR CORRIDOR	AM Peak	PM Peak	Daily
<b>Train Station (VLC/Metlink)</b>			
Essendon Railway Station (Essendon)	0	5	5
Broadmeadows Railway Station (Broadmeadows)	No Data	No Data	No Data
Craigieburn Railway Station (Craigieburn)	-	-	36
Donnybrook Railway Station (Donnybrook)	48	1	59
Wallan Railway Station (Wallan)	211	5	312
Heathcote Junction Railway Station (Heathcote Junction)	27	1	40
Wandong Railway Station (Wandong)	43	3	79
Kilmore East Railway Station (Kilmore East)	128	7	257
Broadford Railway Station (Broadford)	78	4	209
Tallaroak Railway Station (Tallaroak)	13	0	27
Seymour Railway Station (Seymour)	83	-	409
<b>Sub-Total</b>	<b>632</b>	<b>25</b>	<b>1,433</b>
TRARALGON CORRIDOR	AM Peak	PM Peak	Daily
<b>Train Station (VLC/Metlink)</b>			
Flinders Street Railway Station (Melbourne City)	-	177	393
Richmond Railway Station (Richmond)	-	27	36
Caulfield Railway Station (Caulfield East)	-	21	82
Clayton Railway Station (Clayton)	0	20	52
Dandenong Railway Station (Dandenong)	1	45	152
Berwick Railway Station (Berwick)	No Data	10	11
Pakenham Railway Station (Pakenham)	177	59	477
Nar Nar Goon Railway Station (Nar Nar Goon)	16	2	37
Tynong Railway Station (Tynong)	8	1	25
Garfield Railway Station (Garfield)	47	3	102
Bunyip Railway Station (Bunyip)	13	1	46
Longwarry Railway Station (Longwarry)	15	2	50
Drouin Railway Station (Drouin)	100	9	334
Warragul Railway Station (Warragul)	128	35	547
Yarragon Railway Station (Yarragon)	6	1	45
<b>Sub-Total</b>	<b>511</b>	<b>412</b>	<b>2,389</b>
SHARED STATIONS	Count	Count	Count
	AM Peak	PM Peak	Daily
<b>Train Station (VLC/Metlink)</b>			
Southern Cross Railway Station (Melbourne City)	-	4,101	8,294
North Melbourne Railway Station (West Melbourne)	0	883	1,082
Footscray Railway Station (Footscray)	7	166	417
Sunshine Railway Station (Sunshine)	4	119	286
<b>Sub-Total</b>	<b>10</b>	<b>5,268</b>	<b>10,080</b>

## 3.2 TRAM SURVEYS

### 3.2.1 Tram Line Load Profiles

During the 2008 Tram Origin Destination survey, a count was conducted to see how many passengers board and alight at each tram stop, where the resultant passengers remaining on the tram represent the tram load.

VLC is awaiting the delivery of the 2008 Tram Origin Destination survey, however Figure 1 below provides an example of the tram load profiles from the 2005 Tram Origin Destination survey, represented as a bandwidth for visual analysis.



*Figure 1 – 2008 Estimates of Tram Load Profiles*

## 3.3 TRAFFIC SURVEYS

### 3.3.1 HTVN Database

The VicRoads Homogeneous Traffic Volume Network (HTVN) database contains mid-block traffic volume estimates for major roads. The mid-block links have been chosen by VicRoads so that the traffic volumes along them are as homogeneous as possible. All traffic volumes derived from the HTVN are estimates, based on actual point location counts, such as SCATS, incident detection SVO data, manual collection, automatic classification etc. Multiple counts are averaged for that mid-block link. This database includes some classified surveys, which can be used to compare to commercial vehicle model results. Provided VicRoads allow the use of the HTVN database, VLC will incorporate the traffic surveys into the model validation process.



### **3.3.2 Screen Line Commercial Vehicle Traffic Counts**

As discussed in Section 2.6.1, 2006 VicRoads screenline traffic counts (for all vehicles) will be used in the validation of the Zenith model. This data also includes commercial vehicle traffic counts at many (but not all) of the screenline locations. As a result, 2006 VicRoads screenline traffic counts for commercial vehicles will be incorporated into the model validation process. The individual 2006 VicRoads screenline traffic counts (by time period, direction and vehicle classification where available) can be seen in Appendix B.



## Appendix A

**Table 16 – 2008 Estimates of Train Station Entries**

Station	All day	AM Peak 7:00 - 9:00am	PM Peak 4:00 - 6:00pm
Aircraft	1,010	346	125
Alamein	648	350	43
Albion	2,537	1,169	163
Alphington	1,137	549	79
Altona	1,395	433	195
Anstey	1,173	402	169
Ardeer	42	24	1
Armadale	1,881	736	187
Ascot Vale	1,690	914	99
Ashburton	1,226	672	156
Aspendale	962	505	68
Auburn	2,492	778	343
Balaclava	3,298	1,233	392
Batman	964	373	120
Bayswater	2,076	905	253
Beaconsfield	476	208	25
Belgrave	1,720	555	137
Bell	1,584	360	229
Bentleigh	3,074	1,402	308
Berwick	2,591	1,065	188
Blackburn	4,010	1,860	531
Bonbeach	900	484	45
Boronia	3,222	1,429	369
Box Hill	10,500	2,945	2,086
Brighton Beach	1,389	697	96
Broadmeadows	3,681	636	608
Brunswick	814	218	137
Burnley	3,157	1,126	530
Burwood	1,487	926	112
Camberwell	7,106	1,910	1,728
Canterbury	1,393	599	204
Carnegie	2,738	1,057	286
Carrum	1,866	822	121
Caulfield	10,178	2,192	2,192
Chatham	888	476	77
Chelsea	2,086	825	228
Cheltenham	3,486	1,304	521
Clayton	4,573	1,338	678
Clifton Hill	3,513	1,159	483
Coburg	2,037	667	326
Collingwood	1,070	165	279
Craigieburn	2,291	1,079	115
Cranbourne	1,814	636	131
Croxton	745	320	57
Croydon	3,110	1,451	142
Dandenong	7,428	2,331	1,280
Darebin	528	238	43
Darling	1,251	789	115
Deer Park	78	49	2
Dennis	991	532	80
Diamond Creek	894	420	59
Diggers Rest	86	52	2
Eaglemont	660	384	34
East Camberwell	1,169	239	72
East Malvern	1,646	1,038	93
East Richmond	2,150	393	390
Edithvale	1,267	678	105
Elsternwick	3,595	1,486	516
Eltham	2,546	866	297
Epping	2,643	984	270
Essendon	5,492	2,394	426
Fairfield	2,169	1,078	214
Fawkner	646	309	47
Ferntree Gully	1,621	800	128
Flagstaff	17,242	404	9,559
Flemington Bridge	504	142	77
Flinders Street	77,725	3,664	30,473



Zenith Model of Victoria  
Technical Note 1 – Data Sources for Model Validation

Station	All day	AM Peak 7:00 - 9:00am	PM Peak 4:00 -6:00pm
Footscray	11,904	2,583	1,840
Frankston	8,269	2,297	493
Gardenvale	1,817	674	170
Gardiner	1,518	628	181
General Motors	-	0	0
Ginifer	2,248	800	165
Glen Iris	1,397	502	216
Glen Waverley	6,437	2,861	620
Glenbervie	1,091	585	51
Glenferrie	11,987	1,522	3,609
Glenhuntly	2,893	1,280	208
Glenroy	3,671	1,695	189
Gowrie	748	263	99
Greensborough	3,021	1,438	270
Hallam	2,575	1,104	193
Hampton	1,812	680	195
Hartwell	843	565	58
Hawksburn	1,352	542	150
Hawthorn	2,274	687	365
Heatherdale	1,793	947	160
Heathmont	1,966	543	159
Heidelberg	4,265	964	440
Heyington	2,105	146	235
Highett	1,591	593	221
Holmesglen	2,734	866	444
Hoppers Crossing	3,759	1,577	230
Hughesdale	1,441	727	97
Huntingdale	4,207	1,617	680
Hurstbridge	642	397	25
Ivanhoe	3,647	1,479	483
Jacana	427	91	101
Jewell	1,435	251	236
Jolimont	1,997	134	695
Jordanville	1,203	653	109
Kananook	1,389	663	104
Keilor Plains	1,782	959	68
Kensington	1,518	656	151
Keon Park	882	280	135
Kooyong	1,330	308	439
Laburnum	2,474	504	241
Lalor	1,470	740	97
Laverton	4,214	2,082	193
Lilydale	2,975	984	381
Macaulay	721	252	184
Macleod	2,103	685	172
Malvern	3,067	882	519
Mckinnon	1,574	668	122
Melbourne Central	48,590	760	17,476
Melton	1,131	540	22
Mentone	3,450	1,025	792
Merinda Park	1,219	471	127
Merlynston	1,162	503	59
Merri	788	147	51
Middle Brighton	2,225	773	275
Middle Footscray	607	222	57
Mitcham	4,437	2,131	284
Mont Albert	1,237	617	95
Montmorency	1,314	610	48
Moonee Ponds	2,435	893	338
Moorabbin	2,350	565	567
Mooroolbark	2,371	1,139	109
Mordialloc	2,853	599	397
Moreland	1,155	480	157
Mount Waverley	3,021	1,088	204
Murrumbeena	2,221	1,047	195
Narre Warren	3,134	1,417	303
Newmarket	2,980	1,163	341
Newport	5,487	2,201	543
Noble Park	4,915	1,403	444
North Brighton	2,238	1,032	258
North Melbourne	2,073	349	652
North Richmond	1,317	211	341
North Williamstown	1,829	777	106
Northcote	1,286	252	141



Zenith Model of Victoria  
Technical Note 1 – Data Sources for Model Validation

Station	All day	AM Peak 7:00 - 9:00am	PM Peak 4:00 -6:00pm
Nunawading	3,383	1,314	378
Oak Park	2,014	837	151
Oakleigh	6,779	1,629	1,252
Officer	77	38	2
Ormond	2,341	833	313
Pakenham	1,683	463	99
Parkdale	1,022	449	57
Parliament	37,619	867	19,044
Pascoe Vale	1,772	988	121
Patterson	927	433	51
Prahran	4,101	525	1,223
Preston	3,036	748	492
Regent	1,715	776	138
Reservoir	4,456	1,623	438
Richmond	6,650	1,201	1,744
Ringwood	8,004	1,773	1,332
Ringwood East	1,534	851	75
Ripponlea	2,156	886	294
Riversdale	1,340	466	71
Rockbank	13	9	0
Rosanna	2,084	1,055	145
Roxburgh Park	1,270	596	95
Royal Park	1,006	214	147
Rushall	486	109	82
Ruthven	808	395	54
Sandown Park	1,694	949	76
Sandringham	2,199	1,123	173
Seaford	2,086	958	166
Seaholme	524	242	32
Seddon	1,140	622	58
South Kensington	672	265	67
South Yarra	9,687	1,975	2,330
Southern Cross (Spencer St.)	31,688	1,331	15,254
Spotswood	940	333	148
Springvale	5,365	1,621	729
St Albans	4,743	1,329	710
Strathmore	1,555	644	78
Sunbury	1,195	583	38
Sunshine	5,831	1,821	664
Surrey Hills	2,585	1,550	135
Syndal	2,341	1,157	230
Tecoma	295	141	21
Thomastown	3,012	1,287	237
Thornbury	1,279	489	123
Toorak	1,261	462	215
Tooronga	1,646	695	243
Tottenham	1,481	550	179
Upfield	1,191	376	221
Upper Ferntree Gully	1,286	526	131
Upwey	1,277	334	130
Victoria Park	1,371	262	462
Watergardens (Sydenham)	4,286	2,063	289
Watsonia	2,510	1,338	161
Wattle Glen	300	186	2
Werribee	3,801	1,360	276
West Footscray	1,245	567	121
West Richmond	745	185	191
Westall	1,632	476	205
Westgarth	886	422	54
Westona	1,480	429	90
Williamstown	526	184	76
Williamstown Beach	1,566	522	45
Willison	339	208	8
Windsor	3,428	992	638
Yarraman	1,213	489	133
Yarraville	2,324	1,125	202
<b>Total</b>	<b>685,662</b>	<b>173,584</b>	<b>153,358</b>





## Appendix B

**Table 17 – Individual 2006 VicRoads Screenline Traffic counts by Direction**

VicRoads 2006 survey				All Vehicles			Commercial Vehicles		
Screenline	Direction	Description	In/ Out bound	AM Volume	PM Volume	Daily Volume	AM Volume	PM Volume	Daily Volume
900	EAST BOUND	Sunbury Rd SE of Bulla-Diggers Rest Rd	Inbound	3017	930	10353	74	39	405
900	EAST BOUND	Calder Fwy SE of Bulla-Diggers Rest Rd	Inbound	3736	1956	17553	265	144	1724
900	EAST BOUND	Melton Hwy W of Gourlay Rd	Inbound	2426	1709	12523	134	73	642
900	EAST BOUND	Western Fwy E of Hopkins Rd	Inbound	4046	2163	19714	363	211	2651
900	EAST BOUND	Doherty Rd E of Derrimut Rd	Inbound	1290	309	4041	68	32	329
900	EAST BOUND	Sayers Rd at Skeleton Creek	Inbound	2157	1137	9556	95	55	522
900	EAST BOUND	Old Geelong Rd at Skeleton Creek	Inbound	2222	2355	17782	210	134	1282
900	EAST BOUND	Princes Hwy SW of Princes Fwy (Hoppers Crossing)	Inbound	4636	1860	18644	115	49	671
900	EAST BOUND	Princes Fwy (Maltby Bypass) S of Princes Hwy	Inbound	5301	3420	28311			
900	EAST BOUND	Sneydes Rd E of Hoppers La	Inbound	323	323	1708	42	10	121
900	EAST BOUND	Aviation Rd E of Duncans Rd	Inbound	92	92	568	16	10	84
900	WEST BOUND	Sunbury Rd SE of Bulla-Diggers Rest Rd	Outbound	773	2548	9898	78	72	486
900	WEST BOUND	Calder Fwy SE of Bulla-Diggers Rest Rd	Outbound	1545	4058	17243	191	259	1645
900	WEST BOUND	Melton Hwy W of Gourlay Rd	Outbound	1336	2807	12748	113	116	685
900	WEST BOUND	Western Fwy E of Hopkins Rd	Outbound	1900	4243	19136	333	331	2702
900	WEST BOUND	Doherty Rd E of Derrimut Rd	Outbound	170	1199	3753	28	57	310
900	WEST BOUND	Sayers Rd at Skeleton Creek	Outbound	963	2234	9538	83	70	529
900	WEST BOUND	Old Geelong Rd at Skeleton Creek	Outbound	1414	4031	17939	236	166	1302
900	WEST BOUND	Princes Hwy SW of Princes Fwy (Hoppers Crossing)	Outbound	2070	4654	19545	131	105	782
900	WEST BOUND	Princes Fwy (Maltby Bypass) S of Princes Hwy	Outbound	3081	5599	27261			
900	WEST BOUND	Sneydes Rd E of Hoppers La	Outbound	254	276	1467	14	18	94
900	WEST BOUND	Aviation Rd E of Duncans Rd	Outbound	74	96	604	13	10	84
901	NORTH BOUND	Mt Cottrell Rd N of Boundary Rd	Outbound	18	88	257	2	7	23
901	NORTH BOUND	Troups Rd N of Boundary Rd	Outbound	11	37	140	2	5	26
901	NORTH BOUND	Melton Werribee Rd N of Boundary Rd	Outbound	757	1858	6684	109	134	753
901	NORTH BOUND	Robinsons Rd S of Foleys St	Outbound	416	1458	5322	150	118	1076
901	NORTH BOUND	Mt Derrimut Rd N of Middle Rd	Outbound	426	1390	4976	66	46	356
901	NORTH BOUND	Western Ring Rd Bt Fitzgerald Rd & Western Hwy	Outbound	7159	9738	56633	1029	785	7981
901	NORTH BOUND	Fitzgerald Rd N of The Avenue	Outbound	578	1019	5229	39	44	283
901	NORTH BOUND	Anderson Rd N of Derby Rd	Outbound	510	1232	6302	89	72	635
901	NORTH BOUND	Hampshire Rd S of Morris St	Outbound	884	1730	7915	62	55	389
901	NORTH BOUND	Ashley St N of Sunshine Rd	Outbound	1153	2235	11395	139	108	1004
901	NORTH BOUND	Gordon St S of Barkly St	Outbound	1189	1367	8542	57	34	370
901	NORTH BOUND	Geelong Rd SW of Barkly St	Outbound	2688	2242	13703	226	58	1108
901	NORTH BOUND	Whitehall St SW of Hopkins St	Outbound	1412	1081	7554			
901	NORTH BOUND	Western Link Bt Footscray Rd & Dynon Rd	Outbound	5503	7395	44297			
901	NORTH BOUND	Spencer St SE of Roden St	Outbound	1237	2428	13604	106	78	875
901	NORTH BOUND	King St NW of Rosslyn St	Outbound	1353	2687	14169			
901	NORTH BOUND	Peel St S of Victoria St	Outbound	2081	2715	19076			
901	NORTH BOUND	Elizabeth St SE of Victoria St	Outbound	601	1575	8762			
901	NORTH BOUND	Swanston St SE of Franklin St	Outbound	364	992	5397	32	51	278
901	NORTH BOUND	Russell St NW of Latrobe St	Outbound	610	1380	8179			
901	NORTH BOUND	Exhibition St N of Latrobe St	Outbound	745	1232	8012			
901	NORTH BOUND	Latrobe St E of Exhibition St	Outbound	460	991	6109			
901	NORTH BOUND	Nicholson St S of Victoria Pde	Outbound	675	1420	8450			
901	NORTH BOUND	Lansdowne St S of Victoria Pde	Outbound	681	1093	5643			
901	NORTH BOUND	Hoddle St S of Victoria St	Outbound	3226	5501	35557	130	104	1184
901	NORTH BOUND	Church St S of Victoria St	Outbound	884	1115	7707			
901	NORTH BOUND	Burnley St S of Victoria St	Outbound	1201	1843	10238	63	51	550
901	NORTH BOUND	Church St W of Barkers Rd	Outbound	626	1106	6333			
901	NORTH BOUND	Power St S of Barkers Rd	Outbound	1617	2185	13172			
901	NORTH BOUND	Glenferrie Rd S of Barkers Rd	Outbound	748	1393	8345	37	20	214
901	NORTH BOUND	Auburn Rd S of Barkers Rd	Outbound	1411	1884	10439	33	30	240
901	NORTH BOUND	Burke Rd N of Torrington St	Outbound	1867	2042	14517			
901	NORTH BOUND	Balwyn Rd S of Mont Albert Rd	Outbound	906	1503	7879			
901	NORTH BOUND	Union Rd S of Guildford Rd	Outbound	808	1383	7292			
901	NORTH BOUND	Elgar Rd S of Mont Albert Rd	Outbound	2244	2492	14740	256	289	1430
901	NORTH BOUND	Station St N of Combarton St	Outbound	1922	1993	12186			
901	NORTH BOUND	Middleborough Rd N of Albion Rd	Outbound	1777	2106	13819			
901	NORTH BOUND	Blackburn Rd NW of Canterbury Rd	Outbound	1433	1742	10231	73	50	427
901	NORTH BOUND	Springvale Rd N of Canterbury Rd	Outbound	3650	4042	30589			
901	NORTH BOUND	Mitcham Rd N of Canterbury Rd	Outbound	1910	1673	11840			
901	NORTH BOUND	Heatherdale Rd N of Canterbury Rd	Outbound	1309	1254	7462	141	90	852
901	NORTH BOUND	Wantirna Rd N of Canterbury Rd	Outbound	1740	2309	12798			



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VicRoads 2006 survey				All Vehicles			Commercial Vehicles		
Screenline	Direction	Description	In/ Out bound	AM Volume	PM Volume	Daily Volume	AM Volume	PM Volume	Daily Volume
901	NORTH BOUND	Great Ryrie St N of Canterbury Rd	Outbound	333	316	1966	16	15	80
901	NORTH BOUND	Bedford Rd NW of Canterbury Rd	Outbound	1164	1567	8124	68	50	391
901	NORTH BOUND	Bayswater Rd N of Canterbury Rd	Outbound	1287	2913	13109	102	123	731
901	NORTH BOUND	Dorset Rd N of Eastfield Rd	Outbound	1706	3761	16995	177	187	1298
901	NORTH BOUND	Colchester Rd N of Canterbury Rd	Outbound	765	1540	6592	76	94	605
901	NORTH BOUND	Liverpool Rd N of Canterbury Rd	Outbound	486	1644	6029	56	104	503
901	NORTH BOUND	Mt Dandenong Rd NW of Canterbury Rd	Outbound	758	574	4255	56	32	281
901	SOUTH BOUND	Mt Cottrell Rd N of Boundary Rd	Inbound	46	25	206	4	1	21
901	SOUTH BOUND	Troups Rd N of Boundary Rd	Inbound	21	20	131	3	4	24
901	SOUTH BOUND	Melton Werribee Rd N of Boundary Rd	Inbound	1585	827	6580	186	87	806
901	SOUTH BOUND	Robinsons Rd S of Foleys St	Inbound	1335	480	5082	205	58	977
901	SOUTH BOUND	Mt Derrimut Rd N of Middle Rd	Inbound	882	566	4714	73	35	380
901	SOUTH BOUND	Western Ring Rd Bt Fitzgerald Rd & Western Hwy	Inbound	9359	7745	57190	1106	667	7864
901	SOUTH BOUND	Fitzgerald Rd N of The Avenue	Inbound	971	755	5904	59	32	297
901	SOUTH BOUND	Anderson Rd N of Derby Rd	Inbound	1369	703	7098	146	52	762
901	SOUTH BOUND	Hampshire Rd S of Morris St	Inbound	1011	1076	6899	48	32	311
901	SOUTH BOUND	Ashley St N of Sunshine Rd	Inbound	1820	1555	11312	145	75	962
901	SOUTH BOUND	Gordon St S of Barkly St	Inbound	1014	1369	8145	43	30	328
901	SOUTH BOUND	Geelong Rd SW of Barkly St	Inbound	1862	2485	13997	150	98	1149
901	SOUTH BOUND	Whitehall St SW of Hopkins St	Inbound	751	1196	6016			
901	SOUTH BOUND	Western Link Bt Footscray Rd & Dynon Rd	Inbound	8317	5451	45633			
901	SOUTH BOUND	Spencer St SE of Roden St	Inbound	2981	1679	15215	116	50	784
901	SOUTH BOUND	King St NW of Rosslyn St	Inbound	2881	1574	12697			
901	SOUTH BOUND	Peel St S of Victoria St	Inbound	2274	2194	17610			
901	SOUTH BOUND	Elizabeth St SE of Victoria St	Inbound	1271	860	7733			
901	SOUTH BOUND	Swanston St SE of Franklin St	Inbound	369	351	3024	27	17	162
901	SOUTH BOUND	Russell St NW of Latrobe St	Inbound	1881	1136	10537			
901	SOUTH BOUND	Exhibition St N of Latrobe St	Inbound	1883	1067	9420			
901	SOUTH BOUND	Latrobe St E of Exhibition St	Inbound	1758	961	8805			
901	SOUTH BOUND	Nicholson St S of Victoria Pde	Inbound	1629	1085	9200			
901	SOUTH BOUND	Lansdowne St S of Victoria Pde	Inbound	709	585	4174			
901	SOUTH BOUND	Hoddle St S of Victoria St	Inbound	5415	4346	36351	158	91	1159
901	SOUTH BOUND	Church St S of Victoria St	Inbound	1220	1110	7896			
901	SOUTH BOUND	Burnley St S of Victoria St	Inbound	1307	1522	9250	77	59	594
901	SOUTH BOUND	Church St W of Barkers Rd	Inbound	1626	847	7457			
901	SOUTH BOUND	Power St S of Barkers Rd	Inbound	2122	1809	13228			
901	SOUTH BOUND	Glenferrie Rd S of Barkers Rd	Inbound	1300	1093	8610	52	9	232
901	SOUTH BOUND	Auburn Rd S of Barkers Rd	Inbound	1401	1542	9719	38	25	274
901	SOUTH BOUND	Burke Rd N of Torrington St	Inbound	2189	1861	14586			
901	SOUTH BOUND	Balwyn Rd S of Mont Albert Rd	Inbound	1337	925	6845			
901	SOUTH BOUND	Union Rd S of Guildford Rd	Inbound	1272	1027	7383			
901	SOUTH BOUND	Elgar Rd S of Mont Albert Rd	Inbound	2449	2634	15157	250	231	1342
901	SOUTH BOUND	Station St N of Combarton St	Inbound	2057	1998	12299			
901	SOUTH BOUND	Middleborough Rd N of Albion Rd	Inbound	2193	2139	14701			
901	SOUTH BOUND	Blackburn Rd NW of Canterbury Rd	Inbound	1733	1925	11164	87	58	560
901	SOUTH BOUND	Springvale Rd N of Canterbury Rd	Inbound	4022	4729	32778			
901	SOUTH BOUND	Mitcham Rd N of Canterbury Rd	Inbound	1908	2057	12194			
901	SOUTH BOUND	Heatherdale Rd N of Canterbury Rd	Inbound	928	1569	7486	116	93	805
901	SOUTH BOUND	Wantirna Rd N of Canterbury Rd	Inbound	1898	1797	11537			
901	SOUTH BOUND	Great Ryrie St N of Canterbury Rd	Inbound	361	289	2013	15	11	81
901	SOUTH BOUND	Bedford Rd NW of Canterbury Rd	Inbound	1362	1284	7926	68	41	360
901	SOUTH BOUND	Bayswater Rd N of Canterbury Rd	Inbound	2467	1696	12592	142	91	814
901	SOUTH BOUND	Dorset Rd N of Eastfield Rd	Inbound	3485	2250	17398	191	138	1263
901	SOUTH BOUND	Colchester Rd N of Canterbury Rd	Inbound	1178	952	6289	93	57	593
901	SOUTH BOUND	Liverpool Rd N of Canterbury Rd	Inbound	1079	693	5251	127	75	640
901	SOUTH BOUND	Mt Dandenong Rd NW of Canterbury Rd	Inbound	433	972	4555	38	52	277
902	EAST BOUND	Beaconsfield Pde SE of Mary St	Outbound	2179	4666	21002			
902	EAST BOUND	Canterbury Rd NW of Fitzroy St	Outbound	949	1593	9494	54	44	387
902	EAST BOUND	Lakeside(Aughtie) Dr NW of Fitzroy St	Outbound	707	2558	11996	40	48	376
902	EAST BOUND	Queens Rd S of Union St	Outbound	2387	5972	27169	132	104	965
902	EAST BOUND	St Kilda Rd S of Union St	Outbound	1921	4982	25227	122	82	1011
902	EAST BOUND	High St W of Punt Rd	Outbound	514	964	4912			
902	EAST BOUND	Commercial Rd W of Punt Rd	Outbound	591	1214	6569			
902	EAST BOUND	Toorak Rd West W of Punt Rd	Outbound	856	1644	11190	50	17	348
902	EAST BOUND	Alexandra Av NW of Punt Rd	Outbound	1334	1743	10720	65	80	517
902	EAST BOUND	Southern Link (Tunnels) W of Punt Rd	Outbound	7416	8103	54969	1723	932	12529
902	EAST BOUND	Southern Link (Surface Routes) W of Punt Rd	Outbound	886	1919	10801			
902	EAST BOUND	Swan St W of Punt Rd	Outbound	1487	2263	14928			
902	EAST BOUND	Brunton Av W of Punt Rd	Outbound	1324	1728	10730			
902	EAST BOUND	Wellington Pde W of Punt Rd	Outbound	1346	2052	14280			
902	EAST BOUND	Albert St W of Hoddle St	Outbound	529	1703	8618			
902	EAST BOUND	Victoria Pde W of Hoddle St	Outbound	2114	4099	25187	130	82	940
902	EAST BOUND	Johnston St W of Hoddle St	Outbound	676	1970	9587	34	47	393



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VicRoads 2006 survey				All Vehicles			Commercial Vehicles		
Screenline	Direction	Description	In/ Out bound	AM Volume	PM Volume	Daily Volume	AM Volume	PM Volume	Daily Volume
902	EAST BOUND	Alexandra Pde E of Wellington St	Outbound	4282	6216	39803	290	123	1841
902	EAST BOUND	Heidelberg Rd SW of Hoddle St	Outbound	916	2427	11165	48	34	355
902	EAST BOUND	Queens Pde SW of Rushall Cr	Outbound	507	1070	6692			
902	EAST BOUND	Merri Pde W of High St	Outbound	1200	1488	9938			
902	EAST BOUND	Arthurton Rd E of St Georges Rd	Outbound	660	1043	6601	51	34	386
902	EAST BOUND	Normanby Av W of High St	Outbound	771	845	5251			
902	EAST BOUND	Bell St W of High St	Outbound	3955	4117	27602	237	129	1527
902	EAST BOUND	Murray Rd W of High St	Outbound	1025	1413	9239			
902	EAST BOUND	Regent St W of High St	Outbound	490	764	4141			
902	EAST BOUND	Spring St NE of Cleeland St	Outbound	1002	1988	11741	56	108	582
902	EAST BOUND	Edwardes St W of Spring St	Outbound	470	1102	5575			
902	EAST BOUND	Mahoneys Rd W of High St	Outbound	1997	2891	15902	219	126	1428
902	EAST BOUND	Metropolitan Ring Rd Bt Dalton Rd & Edgars Rd	Outbound	5627	8460	43301			
902	EAST BOUND	Main St W of High St	Outbound	638	747	5051	21	18	144
902	EAST BOUND	Kingsway Dr E of Edgars Rd	Outbound	656	1181	6076	25	39	242
902	EAST BOUND	Cooper St W of High St	Outbound	1967	3502	17676			
902	WEST BOUND	Beaconsfield Pde SE of Mary St	Inbound	5924	2315	20604			
902	WEST BOUND	Canterbury Rd NW of Fitzroy St	Inbound	2499	1210	11131	69	40	390
902	WEST BOUND	Lakeside(Aughtie) Dr NW of Fitzroy St	Inbound	1590	503	4641	21	9	91
902	WEST BOUND	Queens Rd S of Union St	Inbound	8365	4684	42359	283	230	2318
902	WEST BOUND	St Kilda Rd S of Union St	Inbound	3904	1496	15640	36	17	246
902	WEST BOUND	High St W of Punt Rd	Inbound	1256	844	6137			
902	WEST BOUND	Commercial Rd W of Punt Rd	Inbound	1224	1054	7652			
902	WEST BOUND	Toorak Rd West W of Punt Rd	Inbound	2015	1462	12469	46	27	341
902	WEST BOUND	Alexandra Av NW of Punt Rd	Inbound	1419	1285	9495	43	41	332
902	WEST BOUND	Southern Link (Tunnels) W of Punt Rd	Inbound	8355	6180	50960	1040	1153	11184
902	WEST BOUND	Southern Link (Surface Routes) W of Punt Rd	Inbound	2690	1232	10847			
902	WEST BOUND	Swan St W of Punt Rd	Inbound	2493	2023	15525			
902	WEST BOUND	Brunton Av W of Punt Rd	Inbound	1936	1708	11605			
902	WEST BOUND	Wellington Pde W of Punt Rd	Inbound	2756	1821	15098			
902	WEST BOUND	Albert St W of Hoddle St	Inbound	1732	816	7925			
902	WEST BOUND	Victoria Pde W of Hoddle St	Inbound	4063	2428	22694	153	93	861
902	WEST BOUND	Johnston St W of Hoddle St	Inbound	2245	1138	10903	50	33	372
902	WEST BOUND	Alexandra Pde E of Wellington St	Inbound	5617	4742	39219	186	197	1904
902	WEST BOUND	Heidelberg Rd SW of Hoddle St	Inbound	3988	1238	13447	61	24	373
902	WEST BOUND	Queens Pde SW of Rushall Cr	Inbound	1365	750	7016			
902	WEST BOUND	Merri Pde W of High St	Inbound	1112	1527	9891			
902	WEST BOUND	Arthurton Rd E of St Georges Rd	Inbound	954	846	6191	63	35	396
902	WEST BOUND	Normanby Av W of High St	Inbound	769	749	4791			
902	WEST BOUND	Bell St W of High St	Inbound	4361	4113	28179	242	158	1656
902	WEST BOUND	Murray Rd W of High St	Inbound	1228	1497	9562			
902	WEST BOUND	Regent St W of High St	Inbound	936	992	6039			
902	WEST BOUND	Spring St NE of Cleeland St	Inbound	1737	1268	10134	192	101	903
902	WEST BOUND	Edwardes St W of Spring St	Inbound	896	596	4862			
902	WEST BOUND	Mahoneys Rd W of High St	Inbound	2328	2529	16288	221	143	1367
902	WEST BOUND	Metropolitan Ring Rd Bt Dalton Rd & Edgars Rd	Inbound	8494	5826	43085			
902	WEST BOUND	Main St W of High St	Inbound	326	563	3364	10	11	91
902	WEST BOUND	Kingsway Dr E of Edgars Rd	Inbound	831	857	6018	22	10	113
902	WEST BOUND	Cooper St W of High St	Inbound	3308	2065	17585			
903	NORTH BOUND	St Kilda St N of North Rd	Inbound	4651	1930	15767			
903	NORTH BOUND	New St N of North Rd	Inbound	1541	717	5841	76	23	264
903	NORTH BOUND	Nepean Hwy N of North Rd	Inbound	8059	5014	40717	268	152	1924
903	NORTH BOUND	Kooyong Rd N of North Rd	Inbound	1704	1211	8661	71	36	382
903	NORTH BOUND	Hawthorn Rd N of North Rd	Inbound	1017	889	6186	47	13	193
903	NORTH BOUND	Bambra Rd N of North Rd	Inbound	1627	1116	8217			
903	NORTH BOUND	Booran Rd N of North Rd	Inbound	1492	893	7008			
903	NORTH BOUND	Grange Rd N of North Rd	Inbound	1280	999	7515			
903	NORTH BOUND	Koornang Rd N of North Rd	Inbound	807	809	5086	37	16	198
903	NORTH BOUND	Murrumbeena Rd N of North Rd	Inbound	1335	1456	7947	41	38	285
903	NORTH BOUND	Poath Rd N of North Rd	Inbound	539	834	4721	25	25	182
903	NORTH BOUND	Warrigal Rd N of North Rd	Inbound	3284	3123	21336	274	138	1956
903	NORTH BOUND	Huntingdale Rd N of North Rd	Inbound	800	1120	5810	58	48	408
903	NORTH BOUND	Clayton Rd N of North Rd	Inbound	1733	1964	12068			
903	NORTH BOUND	Princes Hwy NW of Wellington Rd	Inbound	4852	4253	24782	283	108	1374
903	NORTH BOUND	Blackburn Rd N of Wellington Rd	Inbound	3481	3804	21907			
903	NORTH BOUND	Springvale Rd N of Wellington Rd	Inbound	3265	3525	24641	312	166	1941
903	NORTH BOUND	Monash Fwy NW of Wellington Rd	Inbound	10587	9332	68391			
903	NORTH BOUND	Jells Rd N of Wellington Rd	Inbound	1528	2159	10651			
903	NORTH BOUND	Stud Rd N of Wellington Rd	Inbound	4037	4879	30782			
903	NORTH BOUND	Taylors Rd N of Wellington Rd	Inbound	544	950	4083	17	32	132
903	NORTH BOUND	Napoleon Rd N of Wellington Rd	Inbound	745	1602	7013	59	68	431
903	NORTH BOUND	Kellets Rd N of Wellington Rd	Inbound	602	470	2805	39	26	170
903	NORTH BOUND	Lysterfield Rd N of Wellington Rd	Inbound	707	1245	4724	79	117	501



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VicRoads 2006 survey				All Vehicles			Commercial Vehicles		
Screenline	Direction	Description	In/ Out bound	AM Volume	PM Volume	Daily Volume	AM Volume	PM Volume	Daily Volume
903	NORTH BOUND	Belgrave-Hallam Rd N of Wellington Rd	Inbound	534	1279	4769	43	87	340
903	SOUTH BOUND	St Kilda St N of North Rd	Outbound	1844	3865	16784			
903	SOUTH BOUND	New St N of North Rd	Outbound	564	1211	5773	19	26	219
903	SOUTH BOUND	Nepean Hwy N of North Rd	Outbound	4019	7215	39672	226	172	1781
903	SOUTH BOUND	Kooyong Rd N of North Rd	Outbound	753	1466	7648	39	50	366
903	SOUTH BOUND	Hawthorn Rd N of North Rd	Outbound	751	1160	6482	28	28	201
903	SOUTH BOUND	Bambra Rd N of North Rd	Outbound	731	1159	5944			
903	SOUTH BOUND	Booran Rd N of North Rd	Outbound	450	832	4139			
903	SOUTH BOUND	Grange Rd N of North Rd	Outbound	836	1171	7095			
903	SOUTH BOUND	Koornang Rd N of North Rd	Outbound	788	932	5586	30	20	194
903	SOUTH BOUND	Murrumbeena Rd N of North Rd	Outbound	1278	1515	7872	58	38	286
903	SOUTH BOUND	Poath Rd N of North Rd	Outbound	697	656	4126	36	19	158
903	SOUTH BOUND	Warrigal Rd N of North Rd	Outbound	2605	2964	20608	274	129	1784
903	SOUTH BOUND	Huntingdale Rd N of North Rd	Outbound	1226	1206	7620	80	65	578
903	SOUTH BOUND	Clayton Rd N of North Rd	Outbound	1740	1797	11625			
903	SOUTH BOUND	Princes Hwy NW of Wellington Rd	Outbound	3578	4256	23116	146	157	1198
903	SOUTH BOUND	Blackburn Rd N of Wellington Rd	Outbound	4505	3673	24318			
903	SOUTH BOUND	Springvale Rd N of Wellington Rd	Outbound	4429	3574	25798	247	146	1877
903	SOUTH BOUND	Monash Fwy NW of Wellington Rd	Outbound	8609	9824	66866			
903	SOUTH BOUND	Jells Rd N of Wellington Rd	Outbound	1572	2161	11585			
903	SOUTH BOUND	Stud Rd N of Wellington Rd	Outbound	4716	4507	31217			
903	SOUTH BOUND	Taylor Rd N of Wellington Rd	Outbound	1201	937	4871	39	28	153
903	SOUTH BOUND	Napoleon Rd N of Wellington Rd	Outbound	830	751	5591	57	44	444
903	SOUTH BOUND	Kellets Rd N of Wellington Rd	Outbound	393	541	2422	18	33	141
903	SOUTH BOUND	Lysterfield Rd N of Wellington Rd	Outbound	1209	758	4807	89	62	445
903	SOUTH BOUND	Belgrave-Hallam Rd N of Wellington Rd	Outbound	1176	597	4452	64	32	301
904	NORTH BOUND	Nepean Hwy Patterson River	Inbound	2984	1339	11848			
904	NORTH BOUND	Wells Rd Patterson River	Inbound	470	1397	5445	26	39	194
904	NORTH BOUND	Mornington Peninsula Fwy Patterson River	Inbound	7571	4125	35349	305	167	2099
904	NORTH BOUND	Worsley Rd N of Thompson Rd	Inbound	1696	406	5147	109	29	501
904	NORTH BOUND	Frankston-Dandenong Rd N of Thompsons Rd	Inbound	3732	1092	13806	232	89	1321
904	NORTH BOUND	Western Port Hwy (Dandenong-Hastings Rd) N of Thompsons Rd	Inbound	3610	2607	19918	119	84	909
904	NORTH BOUND	5th Gippsland Hwy btw Hallam Rd & Thompsons Rd	Inbound	3154	2054	17697			
904	NORTH BOUND	Narre Warren Cranbourne Rd N of Thompsons Rd	Inbound	1391	1854	10726	130	85	732
904	NORTH BOUND	Berwick-Cranbourne Rd N of Thompsons Rd	Inbound	1476	1531	9238	110	71	707
904	SOUTH BOUND	Nepean Hwy Patterson River	Outbound	1518	3406	15247			
904	SOUTH BOUND	Wells Rd Patterson River	Outbound	1087	755	5133	49	20	185
904	SOUTH BOUND	Mornington Peninsula Fwy Patterson River	Outbound	3456	8411	35211	271	284	2121
904	SOUTH BOUND	Worsley Rd N of Thompson Rd	Outbound	249	1303	4509	59	52	438
904	SOUTH BOUND	Frankston-Dandenong Rd N of Thompsons Rd	Outbound	935	4112	13967	177	186	1329
904	SOUTH BOUND	Western Port Hwy (Dandenong-Hastings Rd) N of Thompsons Rd	Outbound	2472	3628	20391	337	271	2349
904	SOUTH BOUND	5th Gippsland Hwy btw Hallam Rd & Thompsons Rd	Outbound	1704	3961	18008			
904	SOUTH BOUND	Narre Warren Cranbourne Rd N of Thompsons Rd	Outbound	1502	1686	10005	127	89	670
904	SOUTH BOUND	Berwick-Cranbourne Rd N of Thompsons Rd	Outbound	1280	1636	8927	157	155	1099
905	NORTH BOUND	Nepean Hwy NE of Mornington-Tyabb Rd	Inbound	3177	2230	16441	133	76	675
905	NORTH BOUND	Moorooduc Hwy N of Mornington-Tyabb Rd	Inbound	3376	2736	18259	225	204	1602
905	NORTH BOUND	Coolart Rd N of Mornington-Tyabb Rd	Inbound	724	522	3463	48	39	280
905	NORTH BOUND	Jones Rd N of Mornington-Tyabb Rd	Inbound	328	345	1930	23	17	109
905	NORTH BOUND	Frankston-Flinders Rd N of Mornington-Tyabb Rd	Inbound	691	937	5566	72	60	488
905	NORTH BOUND	Dandenong-Hastings Rd S of Tyabb-Tooradin Rd	Inbound	737	801	4791	90	92	755
905	SOUTH BOUND	Nepean Hwy NE of Mornington-Tyabb Rd	Outbound	1620	3487	17424	121	90	744
905	SOUTH BOUND	Moorooduc Hwy N of Mornington-Tyabb Rd	Outbound	2077	3313	17740	255	172	1452
905	SOUTH BOUND	Coolart Rd N of Mornington-Tyabb Rd	Outbound	475	776	3587	39	36	241
905	SOUTH BOUND	Jones Rd N of Mornington-Tyabb Rd	Outbound	379	303	1955	21	21	121
905	SOUTH BOUND	Frankston-Flinders Rd N of Mornington-Tyabb Rd	Outbound	770	931	5663	86	61	525
905	SOUTH BOUND	Dandenong-Hastings Rd S of Tyabb-Tooradin Rd	Outbound	696	809	4713	98	76	698
906	NORTH BOUND	Kings Rd S of Melton Hwy	Outbound	1042	1931	11726	58	47	355
906	NORTH BOUND	Sunshine Av S of Melton Hwy	Outbound	1381	1797	12157	53	65	457
906	NORTH BOUND	Green Gully Rd N of Old Calder Hwy	Outbound	3200	1146	11058	133	68	615
906	NORTH BOUND	Keilor Park Dr S of Calder Fwy	Outbound	2600	2408	15616	250	164	1628
906	NORTH BOUND	Western Ring Road Bt Calder Fwy & Keilor Park Dr	Outbound	7716	7643	49801			
906	NORTH BOUND	Woorite Pl S of Calder Fwy	Outbound	931	912	6242	46	42	295





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Screenline	Direction	Description	In/ Out bound	AM Volume	PM Volume	Daily Volume	AM Volume	PM Volume	Daily Volume
906	NORTH BOUND	Keilor Rd NW of Matthews Av	Outbound	1225	1879	10892	75	65	535
906	NORTH BOUND	Bulla Rd NW of Woodland St	Outbound	3140	3624	22209			
906	NORTH BOUND	Pascoe Vale Rd SE of Bell St	Outbound	1253	2427	12176	74	169	715
906	NORTH BOUND	Tullamarine Fwy SE of Bell St	Outbound	6544	10216	58349	725	656	6290
906	NORTH BOUND	Reynolds Pde S of Bell St	Outbound	878	1328	6496	71	86	550
906	NORTH BOUND	Melville Rd N of Reynard St	Outbound	985	1256	8369			
906	NORTH BOUND	Sydney Rd S of Bell St	Outbound	811	1579	9683			
906	NORTH BOUND	Nicholson St S of Bell St	Outbound	1316	2556	14631	68	54	451
906	NORTH BOUND	Gilbert Rd S of Bell St	Outbound	539	996	4860	21	31	192
906	NORTH BOUND	St Georges Rd SW of Bell St	Outbound	1909	2816	18455	93	87	768
906	NORTH BOUND	High St S of Bell St	Outbound	722	1302	7835			
906	NORTH BOUND	Plenty Rd SW of Bell St	Outbound	502	1094	6092			
906	NORTH BOUND	Albert St S of Bell St	Outbound	1778	2737	15904			
906	NORTH BOUND	Oriel Rd S of Bell St	Outbound	647	894	4971	52	52	404
906	NORTH BOUND	Waterdale Rd S of Bell St	Outbound	573	861	4929	56	24	328
906	NORTH BOUND	Upper Heidelberg Rd NE of Banksia St	Outbound	918	2072	9336	37	29	217
906	NORTH BOUND	Lower Heidelberg Rd S of Banksia St	Outbound	2225	3376	19969	98	125	925
906	NORTH BOUND	Eastern Fwy E of Burke Rd	Outbound	5398	13555	62863			
906	SOUTH BOUND	Kings Rd S of Melton Hwy	Inbound	1416	1748	12159	54	51	376
906	SOUTH BOUND	Sunshine Av S of Melton Hwy	Inbound	2637	1925	14506	99	65	594
906	SOUTH BOUND	Green Gully Rd N of Old Calder Hwy	Inbound	972	1684	8674	80	44	409
906	SOUTH BOUND	Keilor Park Dr S of Calder Fwy	Inbound	1377	2839	14381	230	152	1503
906	SOUTH BOUND	Western Ring Road Bt Calder Fwy & Keilor Park Dr	Inbound	7951	8463	52287			
906	SOUTH BOUND	Woorite Pl S of Calder Fwy	Inbound	532	984	5478	46	36	271
906	SOUTH BOUND	Keilor Rd NW of Matthews Av	Inbound	1559	1244	9536	82	45	440
906	SOUTH BOUND	Bulla Rd NW of Woodland St	Inbound	2022	2882	18339			
906	SOUTH BOUND	Pascoe Vale Rd SE of Bell St	Inbound	2093	1653	12461	209	133	975
906	SOUTH BOUND	Tullamarine Fwy SE of Bell St	Inbound	12283	6875	62914	973	439	6777
906	SOUTH BOUND	Reynolds Pde S of Bell St	Inbound	1334	928	6790	123	57	597
906	SOUTH BOUND	Melville Rd N of Reynard St	Inbound	1333	1195	8806			
906	SOUTH BOUND	Sydney Rd S of Bell St	Inbound	1803	1058	10979			
906	SOUTH BOUND	Nicholson St S of Bell St	Inbound	2189	1434	11742	72	28	391
906	SOUTH BOUND	Gilbert Rd S of Bell St	Inbound	1057	888	5658	46	21	223
906	SOUTH BOUND	St Georges Rd SW of Bell St	Inbound	2843	2360	18164	118	60	782
906	SOUTH BOUND	High St S of Bell St	Inbound	1191	771	6507			
906	SOUTH BOUND	Plenty Rd SW of Bell St	Inbound	1123	758	6245			
906	SOUTH BOUND	Albert St S of Bell St	Inbound	2860	2230	15586			
906	SOUTH BOUND	Oriel Rd S of Bell St	Inbound	664	652	3968	61	32	325
906	SOUTH BOUND	Waterdale Rd S of Bell St	Inbound	1172	882	6603	71	20	394
906	SOUTH BOUND	Upper Heidelberg Rd NE of Banksia St	Inbound	2998	1111	10275	50	11	258
906	SOUTH BOUND	Lower Heidelberg Rd S of Banksia St	Inbound	3147	2326	19248	125	59	748
906	SOUTH BOUND	Eastern Fwy E of Burke Rd	Inbound	12883	6977	62376			
907	NORTH BOUND	Mickleham Rd S of Somerton Rd	Outbound	877	1227	6320	75	69	473
907	NORTH BOUND	Pascoe Vale Rd S of Somerton Rd	Outbound	1510	2761	16361			
907	NORTH BOUND	Hume Hwy S of Somerton Rd	Outbound	3183	3635	23192	406	337	3256
907	NORTH BOUND	Hume Fwy S of Cooper St (Craigieburn Bypass)	Outbound	3614	4053	23479	538	527	4725
907	NORTH BOUND	High St S of Cooper St	Outbound	1707	2460	15970			
907	NORTH BOUND	Dalton Rd S of Cooper St	Outbound	1244	1534	9142	57	61	424
907	NORTH BOUND	Morang Dr S of McDonalds Rd	Outbound	1022	1310	6652	35	31	229
907	NORTH BOUND	Plenty Rd SW of McDonalds Rd	Outbound	1300	1960	11922	33	28	210
907	SOUTH BOUND	Mickleham Rd S of Somerton Rd	Inbound	1246	953	6453	78	58	451
907	SOUTH BOUND	Pascoe Vale Rd S of Somerton Rd	Inbound	2741	1796	15893			
907	SOUTH BOUND	Hume Hwy S of Somerton Rd	Inbound	3487	3535	23389	523	244	3403
907	SOUTH BOUND	Hume Fwy S of Cooper St (Craigieburn Bypass)	Inbound	4161	3625	23640	675	346	5005
907	SOUTH BOUND	High St S of Cooper St	Inbound	2017	1895	13561			
907	SOUTH BOUND	Dalton Rd S of Cooper St	Inbound	1652	1587	9581	71	51	443
907	SOUTH BOUND	Morang Dr S of McDonalds Rd	Inbound	1110	1049	6157	33	26	203
907	SOUTH BOUND	Plenty Rd SW of McDonalds Rd	Inbound	1948	1650	12580	143	95	989
908	EAST BOUND	West Gate Fwy E of Todd Rd on Bridge	Inbound	14658	10335	80145	1405	707	10325
908	EAST BOUND	Footscray Rd at Maribymong River	Inbound	4241	1795	16773	529	225	2919
908	EAST BOUND	Dynon Rd at Maribymong River	Inbound	3976	2263	18514	217	79	1181
908	EAST BOUND	Ballarat Rd at Maribymong River	Inbound	2709	3081	19104	119	44	658
908	EAST BOUND	Fisher Pde at Maribymong River	Inbound	732	1007	4835	25	21	179
908	EAST BOUND	Raleigh Rd at Maribymong River	Inbound	2681	2695	17720			
908	EAST BOUND	Cordite Dr at Maribymong River	Inbound	2608	1524	13215			
908	EAST BOUND	Western Ring Rd at Maribymong River	Inbound	8905	8771	57237	1060	705	7698
908	EAST BOUND	Calder Hwy at Maribymong River	Inbound	2109	624	6522	55	23	259
908	EAST BOUND	Calder Fwy at Maribymong River	Inbound	9156	4943	43711	319	216	2219
908	WEST BOUND	West Gate Fwy E of Todd Rd on Bridge	Outbound	8896	14197	76731	1059	1010	9614
908	WEST BOUND	Footscray Rd at Maribymong River	Outbound	1989	3532	18157	545	309	3368
908	WEST BOUND	Dynon Rd at Maribymong River	Outbound	1559	3346	16973	118	95	858
908	WEST BOUND	Ballarat Rd at Maribymong River	Outbound	2643	3224	19766	81	74	604
908	WEST BOUND	Fisher Pde at Maribymong River	Outbound	840	758	4477	31	18	187



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Screenline	Direction	Description	In/ Out bound	AM Volume	PM Volume	Daily Volume	AM Volume	PM Volume	Daily Volume
908	WEST BOUND	Raleigh Rd at Maribyrnong River	Outbound	1814	2993	17638			
908	WEST BOUND	Cordite Dr at Maribyrnong River	Outbound	835	3144	13850			
908	WEST BOUND	Western Ring Rd at Maribyrnong River	Outbound	8647	9264	57095	1070	678	7550
908	WEST BOUND	Calder Hwy at Maribyrnong River	Outbound	463	2025	6492	50	45	269
908	WEST BOUND	Calder Fwy at Maribyrnong River	Outbound	3935	9593	44074	314	285	2266
909	NORTH BOUND	Western Link Bolte Bridge at Yarra River	Inbound	5359	7201	43136			
909	NORTH BOUND	Charles Grimes Bridge N of Lorimer St	Inbound	4643	4118	27616	240	126	1701
909	NORTH BOUND	Spencer St at Yarra River	Inbound	2002	1940	14861			
909	NORTH BOUND	Kings Way at Yarra River	Inbound	4821	3578	28837	75	53	645
909	NORTH BOUND	Queensbridge St at Yarra River	Inbound	2800	1917	15331			
909	NORTH BOUND	St Kilda Rd at Yarra River	Inbound	1643	1601	13598			
909	NORTH BOUND	Swan St at Yarra River	Inbound	3511	2757	20405	106	83	1000
909	NORTH BOUND	Southern Link Tunnels (Under Yarra River)	Inbound	8355	6180	50960	1040	1153	11184
909	NORTH BOUND	Hoddle Bridge at Yarra River	Inbound	4018	3546	27668	87	73	678
909	NORTH BOUND	Church St Bridge at Yarra River	Inbound	2370	1606	12738	37	21	228
909	NORTH BOUND	Mac Robertson Bridge at Yarra River	Inbound	2944	2918	18263	45	53	399
909	NORTH BOUND	Southern Link E of Yarra Blvd at Yarra River	Inbound	10757	7894	60827	1013	951	9527
909	NORTH BOUND	Swan St at Yarra River	Inbound	3906	2554	19445	73	42	488
909	NORTH BOUND	Bridge Rd at Yarra River	Inbound	4275	1851	17360	43	20	275
909	NORTH BOUND	Victoria St at Yarra River	Inbound	3228	1307	12973	36	21	245
909	NORTH BOUND	Johnston St at Yarra River	Inbound	2862	990	9801	222	39	536
909	NORTH BOUND	Eastern Fwy at Yarra River	Inbound	10825	7233	62489			
909	NORTH BOUND	Chandler Hwy at Yarra River	Inbound	3259	3609	22726	128	110	1034
909	NORTH BOUND	Burke Rd at Yarra River	Inbound	2146	2680	16528	91	80	650
909	NORTH BOUND	Banksia St at Yarra River	Inbound	6049	4759	33445	257	191	1743
909	NORTH BOUND	Fitzsimons La at Yarra River	Inbound	3245	5892	26620	138	153	898
909	NORTH BOUND	Kangaroo Grnd-Wdyte Rd at Yarra River	Inbound	931	1679	7536	165	177	957
909	NORTH BOUND	Western Link Bolte Bridge at Yarra River	Outbound	8161	5350	44786			
909	SOUTH BOUND	Charles Grimes Bridge N of Lorimer St	Outbound	4367	5066	30541	348	127	1895
909	SOUTH BOUND	Spencer St at Yarra River	Outbound	1906	2149	16484			
909	SOUTH BOUND	Kings Way at Yarra River	Outbound	3178	3959	26809	105	36	686
909	SOUTH BOUND	Queensbridge St at Yarra River	Outbound	1821	2569	15902			
909	SOUTH BOUND	St Kilda Rd at Yarra River	Outbound	1689	1871	14163			
909	SOUTH BOUND	Swan St at Yarra River	Outbound	2102	3207	19941	115	73	1060
909	SOUTH BOUND	Southern Link Tunnels (Under Yarra River)	Outbound	7416	8103	54969	1723	932	12529
909	SOUTH BOUND	Hoddle Bridge at Yarra River	Outbound	3576	4222	29008	113	49	636
909	SOUTH BOUND	Church St Bridge at Yarra River	Outbound	1276	1938	11676	34	17	233
909	SOUTH BOUND	Mac Robertson Bridge at Yarra River	Outbound	2674	2865	17441	68	21	365
909	SOUTH BOUND	Southern Link E of Yarra Blvd at Yarra River	Outbound	8369	10631	68603	1309	757	9580
909	SOUTH BOUND	Swan St at Yarra River	Outbound	2104	3538	19722	69	41	513
909	SOUTH BOUND	Bridge Rd at Yarra River	Outbound	1323	2542	13926	44	25	288
909	SOUTH BOUND	Victoria St at Yarra River	Outbound	964	3136	14468	50	20	296
909	SOUTH BOUND	Johnston St at Yarra River	Outbound	840	1825	8685	40	67	389
909	SOUTH BOUND	Eastern Fwy at Yarra River	Outbound	5759	13383	66121			
909	SOUTH BOUND	Chandler Hwy at Yarra River	Outbound	3318	3213	20821	121	71	752
909	SOUTH BOUND	Burke Rd at Yarra River	Outbound	3477	2356	17905	112	46	536
909	SOUTH BOUND	Banksia St at Yarra River	Outbound	4537	6389	34042	270	181	1758
909	SOUTH BOUND	Fitzsimons La at Yarra River	Outbound	6032	3435	25955	183	109	955
909	SOUTH BOUND	Kangaroo Grnd-Wdyte Rd at Yarra River	Outbound	1831	1198	7597	128	137	713
910	EAST BOUND	Beach Rd NW of Warrigal Rd	Outbound	1010	2243	8877	73	145	678
910	EAST BOUND	Balcombe Rd W of Warrigal Rd	Outbound	928	1250	7685	93	55	507
910	EAST BOUND	Nepean Hwy NW of Warrigal Rd	Outbound	2617	5506	27144	144	161	1244
910	EAST BOUND	Centre Dandenong Rd W of Warrigal Rd	Outbound	1530	1966	11016			
910	EAST BOUND	Bernard St W of Warrigal Rd	Outbound	524	784	4567	39	30	302
910	EAST BOUND	Keys Rd W of Warrigal Rd	Outbound	708	1634	7550	104	97	930
910	EAST BOUND	Cochranes Rd W of Warrigal Rd	Outbound	567	1209	5595	69	63	550
910	EAST BOUND	South Rd W of Warrigal Hwy	Outbound	1970	2484	13839			
910	EAST BOUND	Centre Rd W of Warrigal Hwy	Outbound	1629	1859	11977	174	122	950
910	EAST BOUND	North Rd W of Warrigal Rd	Outbound	3090	3496	20836	126	137	1066
910	EAST BOUND	Dandenong Rd W of Warrigal Rd	Outbound	5130	5705	36927	192	209	1630
910	EAST BOUND	Middle Rd W of Warrigal Rd	Outbound	252	1791	8650			
910	EAST BOUND	Monash Fwy W of Warrigal Rd	Outbound	10007	10538	75266	1317	815	10029
910	EAST BOUND	Waverley Rd NW of Warrigal Rd	Outbound	1161	2301	9474			
910	EAST BOUND	Batesford Rd SW of Warrigal Rd	Outbound	1123	1643	8515	24	38	196
910	EAST BOUND	High St W of Warrigal Hwy	Outbound	1934	3222	15797	70	101	599
910	EAST BOUND	Toorak Rd W of Warrigal Rd	Outbound	1617	2686	14436			
910	EAST BOUND	Riversdale Rd W of Warrigal Rd	Outbound	1372	2642	12483			
910	EAST BOUND	Canterbury Rd W of Warrigal Rd	Outbound	1341	2713	13493			
910	EAST BOUND	Mont Albert Rd W of Union Rd	Outbound	841	1453	6757			
910	EAST BOUND	Whitehorse Rd W of Union Rd	Outbound	905	1560	9236			
910	EAST BOUND	Belmore Rd W of Union Rd	Outbound	1158	1332	7488	61	77	436
910	EAST BOUND	Doncaster Rd SW of Eastern Fwy	Outbound	1560	3006	14763	54	96	515



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Screenline	Direction	Description	In/ Out bound	AM Volume	PM Volume	Daily Volume	AM Volume	PM Volume	Daily Volume
910	EAST BOUND	Bulleen Rd S of Eastern Fwy	Outbound	1436	2344	11851			
910	WEST BOUND	Beach Rd NW of Warrigal Rd	Inbound	2407	849	7532	229	59	676
910	WEST BOUND	Balcombe Rd W of Warrigal Rd	Inbound	1133	1224	7871	77	73	577
910	WEST BOUND	Nepean Hwy NW of Warrigal Rd	Inbound	5745	3734	29175	265	121	1457
910	WEST BOUND	Centre Dandenong Rd W of Warrigal Rd	Inbound	1480	1444	9811			
910	WEST BOUND	Bernard St W of Warrigal Rd	Inbound	803	813	5387	58	40	366
910	WEST BOUND	Keys Rd W of Warrigal Rd	Inbound	1654	848	7761	132	62	912
910	WEST BOUND	Cochranes Rd W of Warrigal Rd	Inbound	1025	781	5689	77	52	596
910	WEST BOUND	South Rd W of Warrigal Hwy	Inbound	2555	2791	15677			
910	WEST BOUND	Centre Rd W of Warrigal Hwy	Inbound	1399	1427	10161	189	136	1047
910	WEST BOUND	North Rd W of Warrigal Rd	Inbound	3234	3341	19987	223	72	1042
910	WEST BOUND	Dandenong Rd W of Warrigal Rd	Inbound	5192	4521	30151	312	113	1591
910	WEST BOUND	Middle Rd W of Warrigal Rd	Inbound	875	1295	9665			
910	WEST BOUND	Monash Fwy W of Warrigal Rd	Inbound	12457	10507	77856	1114	909	9742
910	WEST BOUND	Waverley Rd NW of Warrigal Rd	Inbound	2236	1225	8949			
910	WEST BOUND	Batesford Rd SW of Warrigal Rd	Inbound	1660	1290	7787	35	17	147
910	WEST BOUND	High St W of Warrigal Hwy	Inbound	3118	1876	14371	126	42	521
910	WEST BOUND	Toorak Rd W of Warrigal Rd	Inbound	3509	1852	16201	139	39	602
910	WEST BOUND	Riversdale Rd W of Warrigal Rd	Inbound	2720	1532	11660			
910	WEST BOUND	Canterbury Rd W of Warrigal Rd	Inbound	3567	1870	15956			
910	WEST BOUND	Mont Albert Rd W of Union Rd	Inbound	1601	952	7340			
910	WEST BOUND	Whitehorse Rd W of Union Rd	Inbound	1773	1183	9586			
910	WEST BOUND	Belmore Rd W of Union Rd	Inbound	1294	1017	6753	77	38	346
910	WEST BOUND	Doncaster Rd SW of Eastern Fwy	Inbound	3299	2019	15205	112	40	476
910	WEST BOUND	Bulleen Rd S of Eastern Fwy	Inbound	1910	1848	11641			
911	EAST BOUND	Nepean Hwy NW of Edithvale Rd	Outbound	1118	3039	13170			
911	EAST BOUND	Station St NW of Edithvale Rd	Outbound	873	1617	7611			
911	EAST BOUND	Wells Rd NW of Springvale Rd	Outbound	1533	4457	17635			
911	EAST BOUND	Governor Rd W of Springvale Rd	Outbound	1126	2061	8364	133	136	1041
911	EAST BOUND	Lower Dandenong Rd W of Springvale Rd	Outbound	2636	4672	22902	237	227	1909
911	EAST BOUND	Springvale Bypass W of Springvale Rd	Outbound	1967	4109	18356	261	252	2057
911	EAST BOUND	Heatherton Rd W of Springvale Rd	Outbound	923	2300	10267	108	240	1011
911	EAST BOUND	Osborne Av W of Springvale Rd	Outbound	477	1161	5582			
911	EAST BOUND	Centre Rd W of Springvale Rd	Outbound	972	1565	9424	160	163	1234
911	EAST BOUND	Dandenong Rd NW of Springvale Rd	Outbound	2614	4857	23474	349	206	2077
911	EAST BOUND	Wellington Rd W of Springvale Rd	Outbound	2375	5072	23711	283	135	1989
911	EAST BOUND	Monash Fwy NW of Springvale Rd	Outbound	7320	8597	55860	719	493	6009
911	EAST BOUND	Ferntree Gully Rd W of Springvale Rd	Outbound	3366	5126	29846	300	211	2305
911	EAST BOUND	Waverley Rd W of Springvale Rd	Outbound	946	2178	10607	57	244	822
911	EAST BOUND	High Street Rd W of Springvale Rd	Outbound	1412	2953	13438			
911	EAST BOUND	Highbury Rd W of Springvale Rd	Outbound	875	1855	7069	33	133	364
911	EAST BOUND	Burwood Hwy W of Springvale Rd	Outbound	3315	4448	25354	124	136	984
911	EAST BOUND	Hawthorn Rd W of Springvale Rd	Outbound	425	1138	4097	14	30	133
911	EAST BOUND	Canterbury Rd W of Springvale Rd	Outbound	2249	4372	20953			
911	EAST BOUND	Maroondah Hwy W of W of Springvale Rd	Outbound	1920	4000	19768			
911	EAST BOUND	Springfield Rd W of Springvale Rd	Outbound	743	1291	5650			
911	EAST BOUND	Eastern Fwy W of Springvale Rd	Outbound	4073	7338	38683			
911	EAST BOUND	Mitcham Rd NW of Springvale Rd	Outbound	1360	1842	10288			
911	EAST BOUND	Old Warrandyte Rd SW of Springvale Rd	Outbound	197	480	2286	7	10	55
911	EAST BOUND	Reynolds Rd W of Springvale Rd	Outbound	1775	2341	11749			
911	EAST BOUND	Warrandyte Rd NE of Andersons Creek Rd	Outbound	536	1159	5417	79	77	450
911	EAST BOUND	Main Rd SW of Wattletree Rd	Outbound	1297	3054	15214			
911	EAST BOUND	St Helena Rd SW of Aqueduct Rd	Outbound	631	1362	5473	39	46	246
911	EAST BOUND	Diamond Creek Rd SW of Yan Yean Rd	Outbound	1694	4521	19276	181	241	1384
911	WEST BOUND	Nepean Hwy NW of Edithvale Rd	Inbound	3177	1381	12550			
911	WEST BOUND	Station St NW of Edithvale Rd	Inbound	1294	706	5716			
911	WEST BOUND	Wells Rd NW of Springvale Rd	Inbound	4900	2147	20236			
911	WEST BOUND	Governor Rd W of Springvale Rd	Inbound	2260	923	8641	195	50	978
911	WEST BOUND	Lower Dandenong Rd W of Springvale Rd	Inbound	3677	2814	21155	371	140	1977
911	WEST BOUND	Springvale Bypass W of Springvale Rd	Inbound	4109	2240	18502	286	160	1885
911	WEST BOUND	Heatherton Rd W of Springvale Rd	Inbound	1810	1321	10336	230	94	964
911	WEST BOUND	Osborne Av W of Springvale Rd	Inbound	1034	735	5544			
911	WEST BOUND	Centre Rd W of Springvale Rd	Inbound	2666	1613	13956	371	176	1907
911	WEST BOUND	Dandenong Rd NW of Springvale Rd	Inbound	4523	2245	18560	281	86	1260
911	WEST BOUND	Wellington Rd W of Springvale Rd	Inbound	5770	2530	25141	219	112	1388
911	WEST BOUND	Monash Fwy NW of Springvale Rd	Inbound	9468	7756	57030	642	507	6056
911	WEST BOUND	Ferntree Gully Rd W of Springvale Rd	Inbound	5286	3758	29120	467	229	2775
911	WEST BOUND	Waverley Rd W of Springvale Rd	Inbound	2734	1130	10242	285	75	839
911	WEST BOUND	High Street Rd W of Springvale Rd	Inbound	2906	1704	13437			
911	WEST BOUND	Highbury Rd W of Springvale Rd	Inbound	1812	733	5869	74	16	205
911	WEST BOUND	Burwood Hwy W of Springvale Rd	Inbound	5012	3800	26769	197	64	986
911	WEST BOUND	Hawthorn Rd W of Springvale Rd	Inbound	756	531	3610	23	26	140



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VicRoads 2006 survey				All Vehicles			Commercial Vehicles		
Screenline	Direction	Description	In/ Out bound	AM Volume	PM Volume	Daily Volume	AM Volume	PM Volume	Daily Volume
911	WEST BOUND	Canterbury Rd W of Springvale Rd	Inbound	4770	2565	21888			
911	WEST BOUND	Maroondah Hwy W of W of Springvale Rd	Inbound	4243	3031	22813			
911	WEST BOUND	Springfield Rd W of Springvale Rd	Inbound	1262	1041	6803			
911	WEST BOUND	Eastern Fwy W of Springvale Rd	Inbound	7495	4604	38553			
911	WEST BOUND	Mitcham Rd NW of Springvale Rd	Inbound	1997	1891	13019			
911	WEST BOUND	Old Warrandyte Rd SW of Springvale Rd	Inbound	528	239	2023	11	5	44
911	WEST BOUND	Reynolds Rd W of Springvale Rd	Inbound	2327	1834	11438			
911	WEST BOUND	Warrandyte Rd NE of Andersons Creek Rd	Inbound	1462	763	5972	113	61	483
911	WEST BOUND	Main Rd SW of Wattletree Rd	Inbound	2643	2036	15063			
911	WEST BOUND	St Helena Rd SW of Aqueduct Rd	Inbound	1196	809	5136	45	24	182
911	WEST BOUND	Diamond Creek Rd SW of Yan Yean Rd	Inbound	4848	2256	19779	239	121	1122
912	EAST BOUND	Somerton Rd W of Sydney Rd	Inbound	2095	1567	12973	184	115	1267
912	EAST BOUND	Barry Rd W of Sydney Rd	Inbound	2000	1505	11688			
912	EAST BOUND	Camp Rd W of Sydney Rd	Inbound	1444	2083	13174	240	229	1823
912	EAST BOUND	Western Ring Rd W of Sydney Rd	Inbound	7619	7838	52819	1065	763	8654
912	EAST BOUND	Box Forest Rd W of Sydney Rd	Inbound	922	952	6902	70	58	417
912	EAST BOUND	Boundary Rd W of Sydney Rd	Inbound	1070	1373	8029	68	86	550
912	EAST BOUND	Gaffney St W of Sydney Rd	Inbound	1318	1308	8385			
912	EAST BOUND	Bell St W of Sydney Rd	Inbound	2428	2429	17332			
912	EAST BOUND	Reynard St W of Sydney Rd	Inbound	333	293	2042	34	35	196
912	EAST BOUND	Moreland Rd W of Sydney Rd	Inbound	1139	1149	9158			
912	EAST BOUND	Albion St W of Sydney Rd	Inbound	525	549	4148	25	25	178
912	EAST BOUND	Victoria St W of Sydney Rd	Inbound	706	682	4757	40	23	290
912	EAST BOUND	Dawson St W of Sydney Rd	Inbound	1240	1124	7773	64	41	392
912	EAST BOUND	Brunswick Rd W of Sydney Rd	Inbound	1502	1281	10290	99	75	638
912	EAST BOUND	Park St W of Sydney Rd	Inbound	1379	1227	6757	33	23	150
912	WEST BOUND	Somerton Rd W of Sydney Rd	Outbound	1188	2664	14168			
912	WEST BOUND	Barry Rd W of Sydney Rd	Outbound	1313	2279	12311			
912	WEST BOUND	Camp Rd W of Sydney Rd	Outbound	2013	1804	13103	272	218	1754
912	WEST BOUND	Western Ring Rd W of Sydney Rd	Outbound	8007	7915	53700	1158	732	8737
912	WEST BOUND	Box Forest Rd W of Sydney Rd	Outbound	705	1140	6733	56	49	376
912	WEST BOUND	Boundary Rd W of Sydney Rd	Outbound	1145	1217	7432	85	43	427
912	WEST BOUND	Gaffney St W of Sydney Rd	Outbound	1336	1533	9142			
912	WEST BOUND	Bell St W of Sydney Rd	Outbound	2402	2974	20267			
912	WEST BOUND	Reynard St W of Sydney Rd	Outbound	155	303	1477	8	10	65
912	WEST BOUND	Moreland Rd W of Sydney Rd	Outbound	933	1081	7605			
912	WEST BOUND	Albion St W of Sydney Rd	Outbound	446	670	4150	21	16	153
912	WEST BOUND	Victoria St W of Sydney Rd	Outbound	519	697	4292	39	28	290
912	WEST BOUND	Dawson St W of Sydney Rd	Outbound	818	1065	6985	55	36	339
912	WEST BOUND	Brunswick Rd W of Sydney Rd	Outbound	973	1675	10816	59	66	517
912	WEST BOUND	Park St W of Sydney Rd	Outbound	583	1258	5624	21	32	179
913	EAST BOUND	Kororoit Creek Rd E of Millers Rd	Inbound	2376	1543	11239	159	89	871
913	EAST BOUND	Mason St E of Millers Rd	Inbound	742	800	4977	46	30	242
913	EAST BOUND	Blackshaws Rd W of Millers Rd	Inbound	963	1104	7295	107	81	726
913	EAST BOUND	West Gate Fwy E of Millers Rd	Inbound	11506	9660	73929			
913	EAST BOUND	Francis St E of Cemetery Rd	Inbound	1326	809	6012	187	75	1015
913	EAST BOUND	Geelong Rd NE of Cemetery Rd	Inbound	4364	2626	19788	412	101	1942
913	EAST BOUND	Somerville Rd E of Paramount Rd	Inbound	410	566	3399			
913	EAST BOUND	Sunshine Rd E of Ashley St	Inbound	2759	1582	12552	170	83	1064
913	EAST BOUND	Barkly St E of Ashley St	Inbound	976	759	5859			
913	EAST BOUND	Churchill Av E of Ashley St	Inbound	704	1111	5809	76	54	530
913	EAST BOUND	Ballarat Rd E of Ashley St	Inbound	3004	1665	15291	109	41	596
913	EAST BOUND	Mitchell St E of Ashley St	Inbound	1184	1127	7372	84	23	477
913	WEST BOUND	Kororoit Creek Rd E of Millers Rd	Outbound	1262	2178	10781	122	86	841
913	WEST BOUND	Mason St E of Millers Rd	Outbound	649	871	5441	44	32	282
913	WEST BOUND	Blackshaws Rd W of Millers Rd	Outbound	675	933	6266	97	62	622
913	WEST BOUND	West Gate Fwy E of Millers Rd	Outbound	8513	13869	75346			
913	WEST BOUND	Francis St E of Cemetery Rd	Outbound	509	551	3847	160	114	1066
913	WEST BOUND	Geelong Rd NE of Cemetery Rd	Outbound	2663	4009	20983	278	180	1745
913	WEST BOUND	Somerville Rd E of Paramount Rd	Outbound	695	529	4418			
913	WEST BOUND	Sunshine Rd E of Ashley St	Outbound	1241	2674	12707	161	110	1105
913	WEST BOUND	Barkly St E of Ashley St	Outbound	242	709	3832			
913	WEST BOUND	Churchill Av E of Ashley St	Outbound	784	889	5683	104	78	615
913	WEST BOUND	Ballarat Rd E of Ashley St	Outbound	1707	4157	21998	128	95	977
914	EAST BOUND	Central Av E of Point Cook Rd	Inbound	808	784	7114	59	27	346
914	EAST BOUND	Princes Fwy E of Point Cook Rd	Inbound	12008	6756	56725	741	445	5249
914	EAST BOUND	Old Geelong Rd SW of Fitzgerald Rd	Inbound	1310	779	6532	59	41	357
914	EAST BOUND	Leakes Rd W of Fitzgerald Rd	Inbound	1650	349	4514	91	29	462
914	EAST BOUND	Dohertys Rd W of Fitzgerald Rd	Inbound	646	502	4325	92	63	847
914	EAST BOUND	Boundary Rd W of Fitzgerald Rd	Inbound	2008	950	8896	281	84	1402
914	EAST BOUND	Tilburn Rd W of Fitzgerald Rd	Inbound	1778	701	7044	45	25	242
914	EAST BOUND	Western Hwy E of Station Rd	Inbound	6206	3223	31620	405	239	3097
914	EAST BOUND	Furlong Rd E of Station Rd	Inbound	702	432	3758			





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VicRoads 2006 survey				All Vehicles			Commercial Vehicles		
Screenline	Direction	Description	In/ Out bound	AM Volume	PM Volume	Daily Volume	AM Volume	PM Volume	Daily Volume
914	EAST BOUND	Cairnlea Dv E of Station Rd	Inbound	992	481	4608			
914	EAST BOUND	Main Rd West E of Station Rd	Inbound	1229	1112	9063			
914	EAST BOUND	Taylors Rd E of Kings Rd	Inbound	2963	1851	14288	113	79	574
914	EAST BOUND	Sydenham Rd SE of Kings Rd	Inbound	1226	704	6119	31	13	154
914	EAST BOUND	Melton Hwy E of Kings Rd	Inbound	3761	2909	23080	150	95	896
914	EAST BOUND	Calder Fwy SE of Roberstons Rd	Inbound	3774	1717	16721	212	151	1751
914	EAST BOUND	Sunbury Rd SE of Oaklands Rd	Inbound	3361	989	11097	156	65	761
914	WEST BOUND	Central Av E of Point Cook Rd	Outbound	1015	1352	8215	57	60	362
914	WEST BOUND	Princes Fwy E of Point Cook Rd	Outbound	6979	14946	64227	808	509	5255
914	WEST BOUND	Old Geelong Rd SW of Fitzgerald Rd	Outbound	661	1927	7587	64	53	347
914	WEST BOUND	Leakes Rd W of Fitzgerald Rd	Outbound	257	1325	3935	38	92	474
914	WEST BOUND	Dohertys Rd W of Fitzgerald Rd	Outbound	429	1617	5635	104	103	962
914	WEST BOUND	Boundary Rd W of Fitzgerald Rd	Outbound	597	1893	7572	189	128	1175
914	WEST BOUND	Tilburn Rd W of Fitzgerald Rd	Outbound	572	1325	6135	52	36	308
914	WEST BOUND	Western Hwy E of Station Rd	Outbound	2737	6148	30781	400	305	3054
914	WEST BOUND	Furlong Rd E of Station Rd	Outbound	380	670	3634			
914	WEST BOUND	Cairnlea Dv E of Station Rd	Outbound	430	1318	5725			
914	WEST BOUND	Main Rd West E of Station Rd	Outbound	659	1418	8843			
914	WEST BOUND	Taylors Rd E of Kings Rd	Outbound	1335	2637	13713	91	67	499
914	WEST BOUND	Sydenham Rd SE of Kings Rd	Outbound	427	1392	6316	15	29	164
914	WEST BOUND	Melton Hwy E of Kings Rd	Outbound	1806	4083	21150	112	86	709
914	WEST BOUND	Calder Fwy SE of Roberstons Rd	Outbound	1890	5547	21669	228	287	1857
914	WEST BOUND	Sunbury Rd SE of Oaklands Rd	Outbound	669	2971	10485	87	116	694
915	EAST BOUND	Princes Hwy East W of Toomuc Valley Rd	Outbound	3088	4434	24727	488	334	3241
915	EAST BOUND	Ballarto Rd E of Dalmore Rd	Outbound	239	395	1717	34	45	253
915	EAST BOUND	Manks Rd E of Dalmore Rd	Outbound	44	105	462	8	17	79
915	EAST BOUND	Sth Gippsland Hwy E of Dalmore Rd	Outbound	898	1615	8839	160	185	1429
915	WEST BOUND	Princes Hwy East W of Toomuc Valley Rd	Inbound	4009	3413	24556	475	270	3100
915	WEST BOUND	Ballarto Rd E of Dalmore Rd	Inbound	347	281	1709	40	31	240
915	WEST BOUND	Manks Rd E of Dalmore Rd	Inbound	71	68	434	10	6	66
915	WEST BOUND	Sth Gippsland Hwy E of Dalmore Rd	Inbound	1079	1148	7882	204	170	1639
916	EAST BOUND	Paynes Rd W of Edward Rd	Outbound	569	364	2459	53	20	227
916	EAST BOUND	Exeter Rd W of Dorset Rd	Outbound	825	751	4805	49	43	285
916	EAST BOUND	Maroondah Hwy SW of Dorset Rd	Outbound	1723	3825	17963	131	115	941
916	EAST BOUND	Lincoln Rd W of Dorset Rd	Outbound	528	782	3876			
916	EAST BOUND	Mt Dandenong Rd W of Dorset Rd	Outbound	1513	3213	15492			
916	EAST BOUND	Eastfield Rd W of Dorset Rd	Outbound	617	1083	4896	38	36	226
916	EAST BOUND	Canterbury Rd W of Dorset Rd	Outbound	2408	3489	21361			
916	EAST BOUND	Mountain Hwy W of Dorset Rd	Outbound	2657	3149	17457			
916	EAST BOUND	Boronia Rd W of Dorset Rd	Outbound	1496	3426	16356			
916	EAST BOUND	Burwood Hwy W of Dorset Rd	Outbound	2336	5412	27205	226	193	1663
916	EAST BOUND	Kellett Rd W of Napoleon Rd	Outbound	877	2841	12592	15	16	100
916	EAST BOUND	Wellington Rd W of Napoleon Rd	Outbound	897	3341	14731			
916	EAST BOUND	Heatherton Rd W of Narre Warren North Rd	Outbound	621	1409	5505	44	67	303
916	EAST BOUND	Belgrave Hallam Rd W of Narre Warren North Rd	Outbound	268	870	2978	47	68	393
916	EAST BOUND	Ernst Wanke Rd W of Narre Warren North Rd	Outbound	599	955	4667	32	46	256
916	EAST BOUND	Monash Fwy NW of Narre Warren North Rd	Outbound	3216	6808	32713			
916	EAST BOUND	Princes Hwy W of Narre Warren North Rd	Outbound	1354	4373	20245			
916	EAST BOUND	Fullard Rd W of Narre-Warren Cranbourne Rd	Outbound	534	1101	5196			
916	EAST BOUND	Pound Rd NW of Narre-Warren Cranbourne Rd	Outbound	644	1264	6004	55	54	357
916	EAST BOUND	Ormond Rd W of Narre-Warren Cranbourne Rd	Outbound	510	777	4507	31	31	208
916	EAST BOUND	Thompsons Rd W of Narre-Warren Cranbourne Rd	Outbound	1102	1841	9759			
916	EAST BOUND	Camms Rd W of Narre-Warren Cranbourne Rd	Outbound	358	524	2950	26	31	200
916	EAST BOUND	Sladen St W of Narre-Warren Cranbourne Rd	Outbound	1276	1291	8025	130	105	754
916	EAST BOUND	Sth Gippsland Hwy NW of Cameron St	Outbound	880	1895	10284	172	160	1358
916	EAST BOUND	Browns Rd W of Craig Rd	Outbound	117	123	718	8	10	58
916	EAST BOUND	North Rd W of Craig Rd	Outbound	43	73	381	7	7	38
916	EAST BOUND	Baxter-Tooradin Rd W of Craig Rd	Outbound	651	796	4191	89	92	648
916	WEST BOUND	Paynes Rd W of Edward Rd	Inbound	304	581	2386	18	47	198
916	WEST BOUND	Exeter Rd W of Dorset Rd	Inbound	419	1054	5034	30	33	193
916	WEST BOUND	Maroondah Hwy SW of Dorset Rd	Inbound	3455	2052	16731	146	68	931
916	WEST BOUND	Lincoln Rd W of Dorset Rd	Inbound	780	478	3522			
916	WEST BOUND	Mt Dandenong Rd W of Dorset Rd	Inbound	2620	2133	15201			
916	WEST BOUND	Eastfield Rd W of Dorset Rd	Inbound	862	745	5047	44	39	289
916	WEST BOUND	Canterbury Rd W of Dorset Rd	Inbound	3036	2999	20411			
916	WEST BOUND	Mountain Hwy W of Dorset Rd	Inbound	3201	2566	16633			
916	WEST BOUND	Boronia Rd W of Dorset Rd	Inbound	2200	1794	13166			



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Screenline	Direction	Description	In/ Out bound	AM Volume	PM Volume	Daily Volume	AM Volume	PM Volume	Daily Volume
916	WEST BOUND	Burwood Hwy W of Dorset Rd	Inbound	5156	3709	29547	375	171	2090
916	WEST BOUND	Kellett Rd W of Napoleon Rd	Inbound	2850	1164	11601	117	51	570
916	WEST BOUND	Wellington Rd W of Napoleon Rd	Inbound	2263	1102	11495			
916	WEST BOUND	Heatherston Rd W of Narre Warren North Rd	Inbound	1760	582	5664	82	27	323
916	WEST BOUND	Belgrave Hallam Rd W of Narre Warren North Rd	Inbound	897	298	2891	87	25	393
916	WEST BOUND	Ernst Wanke Rd W of Narre Warren North Rd	Inbound	883	639	4622	45	27	245
916	WEST BOUND	Monash Fwy NW of Narre Warren North Rd	Inbound	5671	4136	34230			
916	WEST BOUND	Princes Hwy W of Narre Warren North Rd	Inbound	4202	2151	19560			
916	WEST BOUND	Fullard Rd W of Narre-Warren Cranbourne Rd	Inbound	587	478	3585			
916	WEST BOUND	Pound Rd NW of Narre-Warren Cranbourne Rd	Inbound	1066	731	5844	64	36	363
916	WEST BOUND	Ormond Rd W of Narre-Warren Cranbourne Rd	Inbound	791	854	5052	36	37	232
916	WEST BOUND	Thompsons Rd W of Narre-Warren Cranbourne Rd	Inbound	1483	1289	8999			
916	WEST BOUND	Camms Rd W of Narre-Warren Cranbourne Rd	Inbound	333	472	2862	33	21	160
916	WEST BOUND	Sladen St W of Narre-Warren Cranbourne Rd	Inbound	1124	1641	8702	141	119	886
916	WEST BOUND	Sth Gippsland Hwy NW of Cameron St	Inbound	1482	1209	9767	177	120	1364
916	WEST BOUND	Browns Rd W of Craig Rd	Inbound	87	111	673	11	8	63
916	WEST BOUND	North Rd W of Craig Rd	Inbound	74	72	408	9	9	59
916	WEST BOUND	Baxter-Tooradin Rd W of Craig Rd	Inbound	642	747	4113	103	90	647
917	NORTH BOUND	Melba Hwy N of Maroondah Hwy	Outbound	325	434	2628	69	60	507
917	NORTH BOUND	Maroondah Hwy NE of Melba Hwy	Outbound	487	1030	4750	52	68	449
917	NORTH BOUND	Killara Rd E of Maroondah Hwy	Outbound	90	161	752	10	13	75
917	NORTH BOUND	Warburton Hwy SE of Maroondah Hwy	Outbound	439	1389	5855	59	92	484
917	SOUTH BOUND	Melba Hwy N of Maroondah Hwy	Inbound	319	373	2293	68	56	448
917	SOUTH BOUND	Maroondah Hwy NE of Melba Hwy	Inbound	898	658	4724	61	48	428
917	SOUTH BOUND	Killara Rd E of Maroondah Hwy	Inbound	143	107	723	16	10	75
917	SOUTH BOUND	Warburton Hwy SE of Maroondah Hwy	Inbound	1265	638	5697	88	45	455
918	NORTH BOUND	Beaconsfield Pde SE of Kerferd Rd	Inbound	5665	2178	19516	162	180	1128
918	NORTH BOUND	Canterbury Rd SE of Kerferd Rd	Inbound	2887	1335	12752	85	46	489
918	NORTH BOUND	Lakeside Dr SE of Albert Road	Inbound	2852	1409	9693	53	24	211
918	NORTH BOUND	Kings Way SE of Albert Rd	Inbound	7293	5782	48796	290	255	2846
918	NORTH BOUND	St Kilda Rd SE of Albert Rd	Inbound	4621	3784	26822	90	38	557
918	SOUTH BOUND	Beaconsfield Pde SE of Kerferd Rd	Outbound	2222	4723	21987	188	116	1105
918	SOUTH BOUND	Canterbury Rd SE of Kerferd Rd	Outbound	897	2110	10979	47	38	336
918	SOUTH BOUND	Lakeside Dr SE of Albert Road	Outbound	773	2063	7674	17	32	163
918	SOUTH BOUND	Kings Way SE of Albert Rd	Outbound	6965	8438	55936	375	168	2583
918	SOUTH BOUND	St Kilda Rd SE of Albert Rd	Outbound	2206	3458	20627	56	35	460
919	EAST BOUND	Lower Plenty Rd at Plenty River	Outbound	1451	3061	14257	93	96	671
919	EAST BOUND	Para Rd at Plenty River	Outbound	1841	2999	15501	110	92	756
919	EAST BOUND	Main St at Plenty River	Outbound	997	3874	16342	74	143	687
919	EAST BOUND	Greenborough Hwy at Plenty River	Outbound	2055	5430	22653	194	208	1365
919	EAST BOUND	Plenty Rd btw Childs Rd & Mayfield Dr	Outbound	1983	4172	21251	193	107	1096
919	WEST BOUND	Lower Plenty Rd at Plenty River	Inbound	3186	1735	14153	115	67	625
919	WEST BOUND	Para Rd at Plenty River	Inbound	2652	2380	15541	124	90	789
919	WEST BOUND	Main St at Plenty River	Inbound	3286	1957	15485	92	57	471
919	WEST BOUND	Greenborough Hwy at Plenty River	Inbound	5439	2244	22226	243	136	1297
919	WEST BOUND	Plenty Rd btw Childs Rd & Mayfield Dr	Inbound	3702	2434	21077	145	107	1016
920	EAST BOUND	Dandenong Rd NW of Tooronga Rd	Outbound	3160	5538	29715			
920	EAST BOUND	Wattletree Rd W of Tooronga Rd	Outbound	1085	2386	12707			
920	EAST BOUND	High St W of Tooronga Rd	Outbound	976	1715	9566			
920	EAST BOUND	Malvern Rd W of Tooronga Rd	Outbound	954	1719	9414			
920	EAST BOUND	Monash Fwy NW of Tooronga Rd	Outbound	9161	11090	74654			
920	EAST BOUND	Toorak Rd W of Tooronga Rd	Outbound	1696	2229	14219	62	46	497
920	WEST BOUND	Dandenong Rd NW of Tooronga Rd	Inbound	5682	3844	29143			
920	WEST BOUND	Wattletree Rd W of Tooronga Rd	Inbound	1291	1066	7803			
920	WEST BOUND	High St W of Tooronga Rd	Inbound	2328	1066	9908			
920	WEST BOUND	Malvern Rd W of Tooronga Rd	Inbound	1889	1477	10733			
920	WEST BOUND	Monash Fwy NW of Tooronga Rd	Inbound	12731	9709	76078			
920	WEST BOUND	Toorak Rd W of Tooronga Rd	Inbound	2748	2424	16193	83	54	559

The following locations are not included as these roads are not in the ZENITH model:

901 Downing St N of Boundary Rd  
901 Faulkners Rd N of Boundary Rd  
905 Derril Rd N of Mornington-Tyabb Rd