

SOMERSET REGIONAL COUNCIL

Review of Brisbane Valley Highway Minimum Sealed Shoulder Width Requirements

September 2019



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1. Introduction

Somerset Regional Council (SRC) has requested an initial review of the minimum sealed shoulder width requirements applicable to Brisbane Valley Highway for the existing traffic volumes, based on current design guides.

The particular section of interest for SRC is the 89.52 km length of the Brisbane Valley Highway from the intersection with the Warrego Highway to the intersection with the D'Aguilar Highway (Refer to diagram on cover page).

It is noted that this section of the Brisbane Valley Highway is an asset of the Department of Transport and Main Roads, State of Queensland (TMR).

1.1 Purpose of this report

To review the minimum sealed shoulder width requirements considered applicable to Brisbane Valley Highway for the existing traffic volumes, based on current design guides.

1.2 Scope and limitations

This report: has been prepared by GHD for Somerset Regional Council and may only be used and relied on by Somerset Regional Council for the purpose agreed between GHD and the Somerset Regional Council as set out in section 1.1 of this report.

GHD otherwise disclaims responsibility to any person other than Somerset Regional Council arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

2. Review of minimum sealed shoulder width requirements

2.1 Current design guides

TMR has in principle adopted the standards published in the Austroads Guide to Road Design (2016) Part 3: Geometric Design, subject to the amendments to this guide as referenced in the TMR Road Planning and Design Manual Edition 2: Volume 3 (RPDM) Supplement to Austroads Guide to Road Design Part 3: Geometric Design (August 2018).

This review considers the abovementioned guides for the normal design domain case.

RPDM Table 3-2 as replicated below, provides the guideline for single carriageway rural road widths, for the normal design domain:

Table 3-2 – Minimum single carriageway rural road widths (m) – normal design domain

Design AADT	250 – 400 ⁽⁷⁾	400 – 1000	1000 – 2000		2000 – 4000		> 4000
Road Carriageway Type ⁽¹⁾	All	All	L	N	L	N	LN
Lane Width	3.25	3.25/3.50 ⁽³⁾	3.50	3.50	3.50	3.50	3.50
Shoulders	1.00	1.25/1.00 ⁽³⁾	1.00	1.50	1.50	2.00	2.00
Carriageway ⁽²⁾	8.50 ⁽⁵⁾	9.00	9.00	10.00	10.00	11.00	11.00
Cycling ⁽⁴⁾				P	P	P	P

Notes:

(1) Road Carriageway formation type:

L – Low embankments (i.e < 1.0 m) on lower order roads where batter slopes do not exceed 1V:4H

N – nominal road values.

(2) Full width of seal required.

(3) Optional combination of lane width and shoulder width.

(4) A “P” in these columns indicates cross sections generally considered suitable for “Principle cycle routes” in rural areas. Refer to Section 4.8 for further details.

(5) A 12.5 m wide cross section provides for a 2.0 m wide painted median with optional wide rope barrier.

(6) Where a road is subject to the State Strategic Road Investment Strategy, the final seal width to be applied is 9.0 m. In these cases the cross-section widths for the next column (400 - 1000 AADT) should be adopted.

(7) Refer to Table 3-1 for carriageway width options for roads with less than 250vpd AADT.

RPDM Table 3-3 as replicated below provides further guidance for provision for cyclists on sealed rural roads.

Table 3-3 Shoulder width requirements to support cycling on sealed roads in rural areas with an 80+ km/h posted speed limit

AADT (vehicles per day)	Provision for cyclists
> 12,000	2.0 m minimum sealed shoulder (3.5 m lanes), but 2.5 m sealed shoulder is preferred
6000 – 12,000	2 m minimum sealed shoulder (3.5 m lanes)
< 6000	1.5 m minimum sealed shoulder

2.2 Existing traffic volumes

TMR has published traffic census data at eight locations on the subject section of Brisbane Valley Highway, as tabulated in Table 1 below:

Table 1 Traffic census data

Segment Site	Start Chainage Brisbane Valley Highway	End Chainage Brisbane Valley Highway	AADT 2018	Heavy Vehicle (%)
135558	0.000 Warrego Hwy	5.530	10987	9.56
30006	5.530	16.290	9326	11.17
30102	16.290	32.670	3821	17.09
30103	32.670	53.860	3018	21.54
32330	53.860	55.030	5351	14.24
30104	55.030	58.190	4950	16.14
32059	58.190	71.590	4121	16.77
32629	71.590	89.520 D'Aguilar Hwy	3057	19.76

Please refer to Appendix A for detailed data.

2.3 Current minimum shoulder width requirements

The minimum sealed shoulder width requirements are established by referencing the existing traffic volumes (AADT) with their associated carriageway requirements noted in the RPDM Tables 3-2 and 3-3. The RPDM notes specifically that “On roads with AADT greater than 250vpd, the cross-sections in Table 3-2 **are to be applied**” (our bold font).

This assessment indicates that the minimum shoulder width is 1.50-2.0m as summarised in Table 2 below.

Table 2 Current minimum shoulder width requirements

Segment Site	Start Chainage	End Chainage	AADT 2018	Heavy Vehicle (%)	Requirement RPDM Part 3 Table 3-2		
					Shoulder Width	Lane Width	Carriageway Sealed
135558	0.000	5.530	10987	9.56	2.00	3.50	11.00
30006	5.530	16.290	9326	11.17	2.00	3.50	11.00
30102	16.290	32.670	3821	17.09	1.50-2.00	3.50	10.00-11.00
30103	32.670	53.860	3018	21.54	1.50-2.00	3.50	10.00-11.00
32330	53.860	55.030	5351	14.24	2.00	3.50	11.00
30104	55.030	58.190	4950	16.14	2.00	3.50	11.00
32059	58.190	71.590	4121	16.77	2.00	3.50	11.00
32629	71.590	89.520	3057	19.76	1.50-2.00	3.50	10.00-11.00

2.4 Existing sealed shoulder widths

Desktop review of images at the traffic census locations of this section of the Brisbane Valley Highway alignment illustrates that the existing shoulder width is considered to be less than the current minimum shoulder width requirements of 1.5 to 2.0 m in the vicinity of each of the eight traffic census locations

TMR maintains detailed asset data records with respect to the as-constructed carriageway details for the length of Brisbane Valley Highway. However, SRC does not have current access to these data records.

Please refer to Appendix B for the images near each of the traffic census locations.

2.5 Safety benefit of increased shoulder width

The following extracts from Austroads highlight the safety benefits of increasing shoulder widths to 1.5 to 2.0 m wide.

'...a most important benefit of sealed shoulders is that they reduce crash rates, particularly with respect to run-off-road crashes, with most of the benefit being achieved by a shoulder seal width of 0.5 to 1.5m.

It is noted that research in Queensland identified that rural divided roads with little or no sealed shoulder (<0.5 m category) had 1.7 times higher risk of casualty crashes (any type) than roads with 2.0 m sealed shoulders. Safety benefits of sealed shoulders were also evident on rural roads with lower speed limits, e.g. 80 km/h (Austroads 2014b).' Austroads Section 4.3.3

'On rural roads the aim should be to provide shoulders that are at least 1.5 to 2.0 m wide wherever possible, and up to 2.5 to 3 m wide on higher volume roads and high speed roads. Because most vehicles standing on road shoulders exercise some choice as to the stopping location, it is desirable to take every opportunity to provide areas at intervals where vehicles can stop completely clear of the traffic lanes, such as on low fills where flattening the slopes automatically provides this, or at the transition from cut to fill where any minor additional earthworks involved can be made at low cost. The choice of shoulder width should also consider the installation of road furniture and safety barriers as these will constrain the distance that a vehicle can stop clear of the traffic lane.' Austroads Section 4.3.2

3. Conclusion

This review has found:

- That the minimum sealed shoulder width requirement for the Brisbane Valley Highway is 1.50 to 2.0 m for the existing traffic volumes, based on the normal design domain of the current design guides
- That the existing minimum sealed shoulder widths on the Brisbane Valley Highway do not all meet these minimum design requirements
- That there are significant safety benefits for users of the Brisbane Valley Highway that can be achieved by improvement of the sealed shoulder width to comply with the current design guides

This review was limited to an initial consideration of minimum sealed shoulder width and has not considered any other design parameters for the subject section.

Appendices

Appendix A – Brisbane Valley Highway – Traffic Census Detailed Data

AADT Segment Report

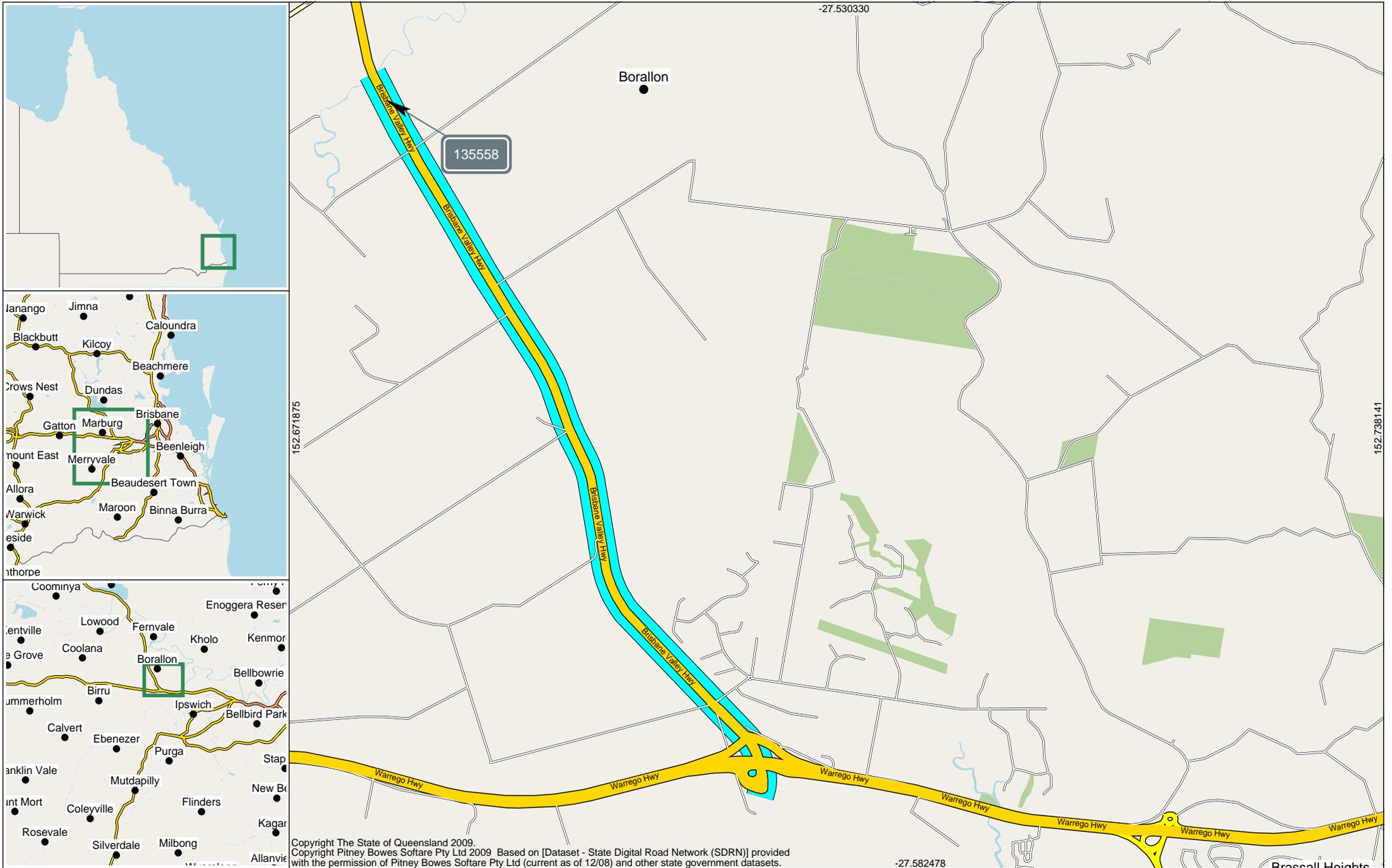
Area 406 - Metropolitan District
Road Segment from 0.000km to 5.530km

Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)

Segment Site 135558

Traffic Year 2018

Data Collection Year 2018



AADT Segment Report

Area 406 - Metropolitan District
Road Segment from 0.000km to 5.530km

Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)
Segment Site 135558 Traffic Year 2018 Data Collection Year 2018

Site 135558. Point 330010615.
Bris. Valley Hwy N of Lovers Lane.

5.33 km

The width of each Road Segment is proportional to its AADT.



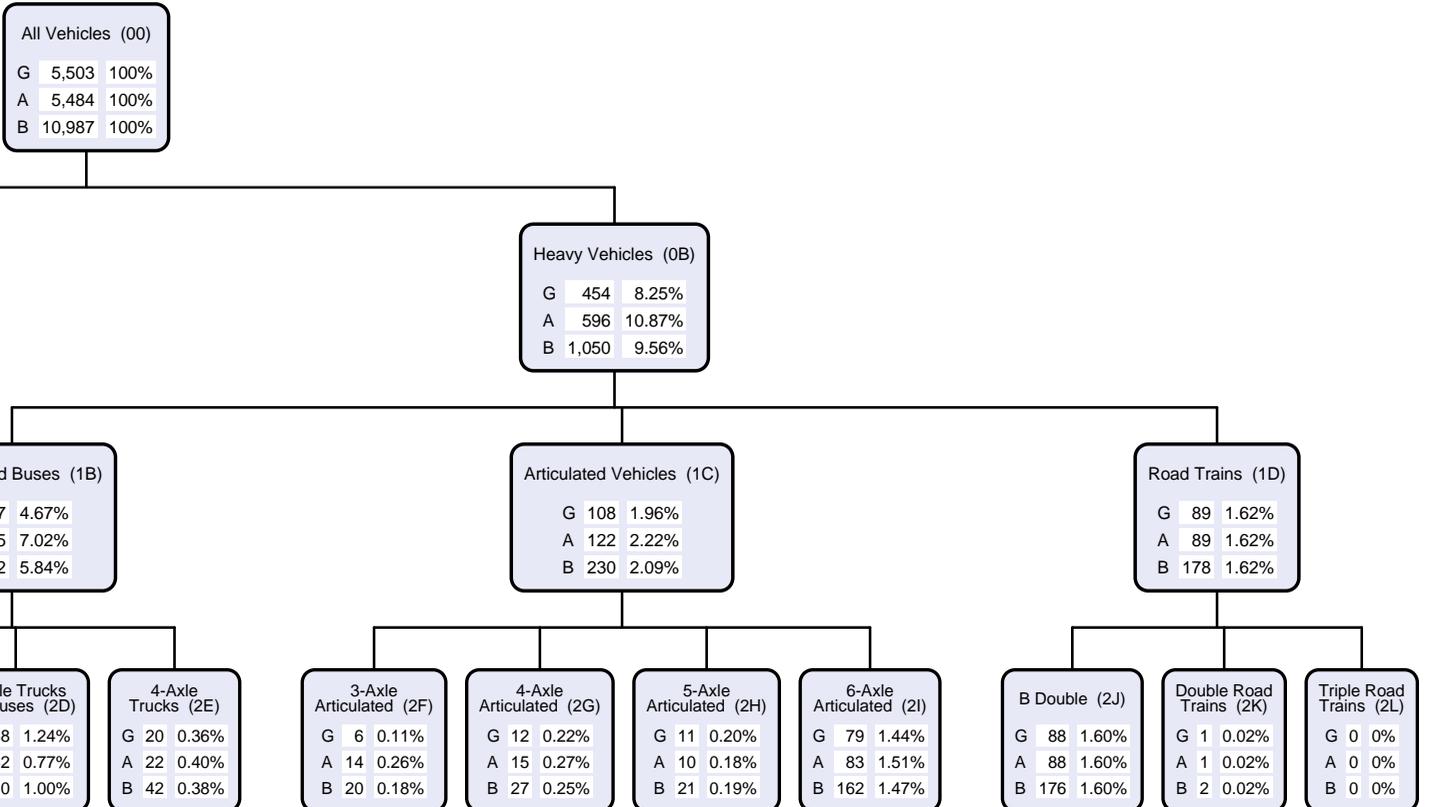
0.00 km

Start Point 330018392. Adjacent to the Warrego Hwy onramp.

5.53 km

End Point 330006597. South of Sandy Ck.

This report shows Annual Average Daily Traffic values (AADTs). Because the AADT values are converted to whole numbers, there will be occasional inaccuracies due to rounding. These inaccuracies are statistically insignificant.



AADT Segment Annual Volume Report

Provides summary data for the selected AADT Segment of a Road Section. Summary data is presented as both directional information and a combined bi-directional figure. The data is then broken down by Traffic Class, when available. The report also includes maps displaying the location of both the AADT Segment and the traffic count site.

Annual Average Daily Traffic (AADT)

Annual Average Daily Traffic (AADT) is the number of vehicles passing a point on a road in a 24 hour period, averaged over a calendar year.

AADT Segments

The State declared road network is broken into Road Sections and then further broken down into AADT Segments. An AADT Segment is a sub-section of the declared road network where traffic volume is similar along the entire AADT Segment.

Area

For administration purposes the Department of Transport and Main Roads has divided Queensland into 12 Districts. The Area field in TSDM reports displays the District Name and Number.

District Name	District
Central West District	401
Darling Downs District	402
Far North District	403
Fitzroy District	404
Mackay/Whitsunday District	405
Metropolitan District	406
North Coast District	407
North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

AADT Values

AADT values are displayed by direction of travel as:

- G Traffic flow in gazettal direction
- A Traffic flow against gazettal direction
- B Traffic flow in both directions

Data Collection Year

Is the most recent year that data was collected at the data collection site.

Please Note:

Due to location and/or departmental policy, some sites are not counted every year.

Gazettal Direction

Is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

Maps

Display the selected location from a range of viewing levels, the start and end position details for the AADT Segment and the location of the traffic count site.

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazettal Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Segment Site

Is the unique identifier for the traffic count site representing the traffic flow within the AADT Segment.

Site

The physical location of a traffic counting device. Sites are located at a specified Through Distance along a Road Section.

Site Description

The description of the physical location of the traffic counting device.

Start and End Point

The unique identifier for the Through Distance along a Road Section.

Vehicle Class

Traffic is categorised as per the Austroads Vehicle Classification scheme. Traffic classes are in the following hierarchical format:

Volume or All Vehicles

00 = 0A + 0B

Light Vehicles

0A = 1A

1A = 2A + 2B

Heavy Vehicles

0B = 1B + 1C + 1D

1B = 2C + 2D + 2E

1C = 2F + 2G + 2H + 2I

1D = 2J + 2K + 2L

The following classes are the categories for which data can be captured:

Volume

00 All vehicles

2-Bin

0A Light vehicles

0B Heavy vehicles

4-Bin

1A Short vehicles

1B Truck or bus

1C Articulated vehicles

1D Road train

12-Bin

2A Short 2 axle vehicles

2B Short vehicles towing

2C 2 axle truck or bus

2D 3 axle truck or bus

2E 4 axle truck

2F 3 axle articulated vehicle

2G 4 axle articulated vehicle

2H 5 axle articulated vehicle

2I 6 axle articulated vehicle

2J B double

2K Double road train

2L Triple road train

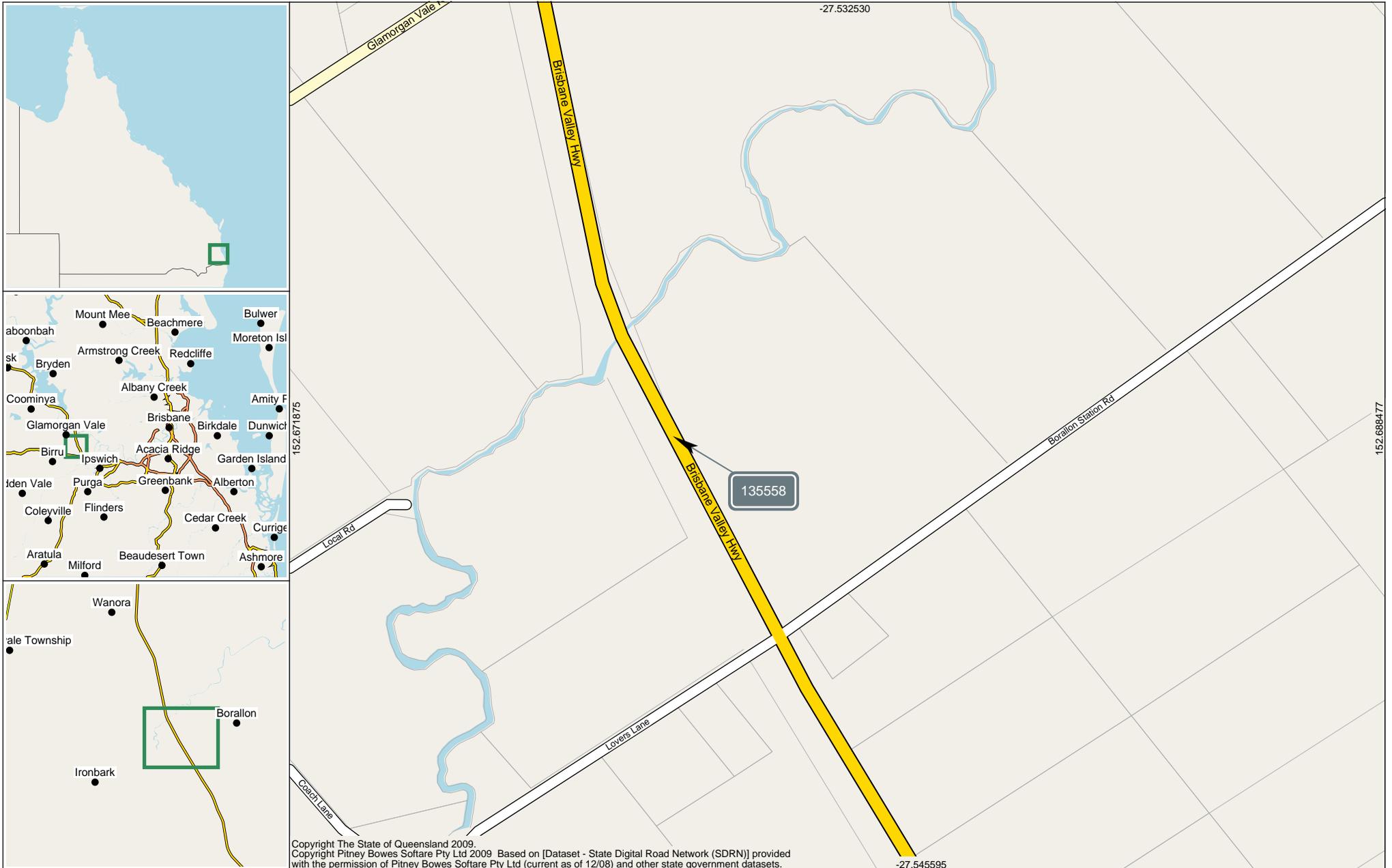
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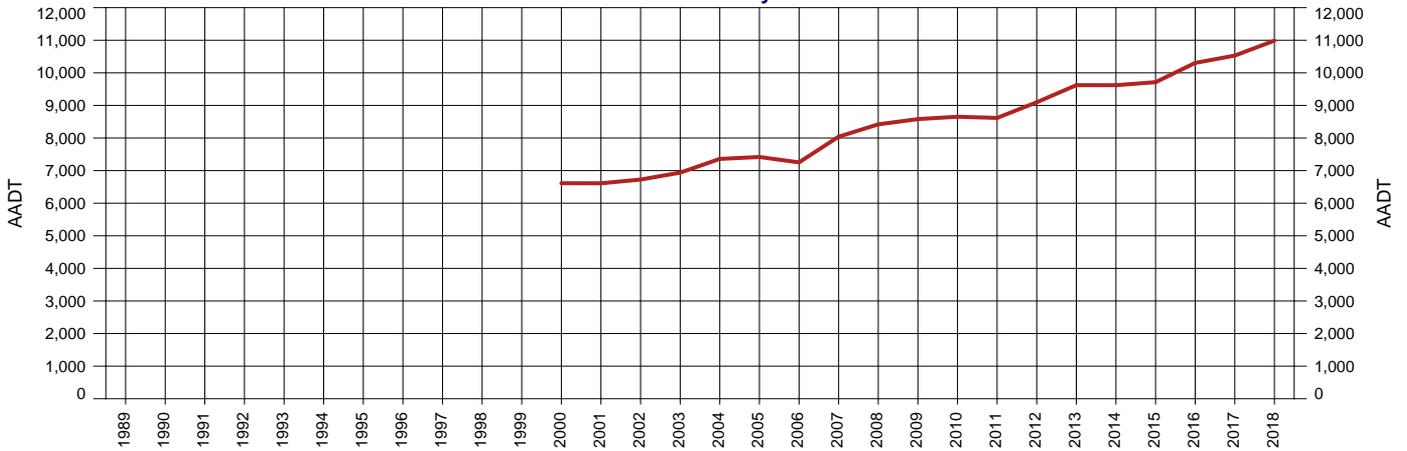
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Area 406 - Metropolitan District
 Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)
 Site 135558 - Bris. Valley Hwy N of Lovers Lane
 Thru Dist 5.33
 Type C - Coverage
 Stream TB - Bi-directional traffic flow

Year 2018
 AADT 10,987
 Avg Week Day 11,426
 Avg Weekend Day 10,327
 Growth last Year 4.34%
 Growth last 5 Yrs 3.20%
 Growth last 10 Yrs 3.00%

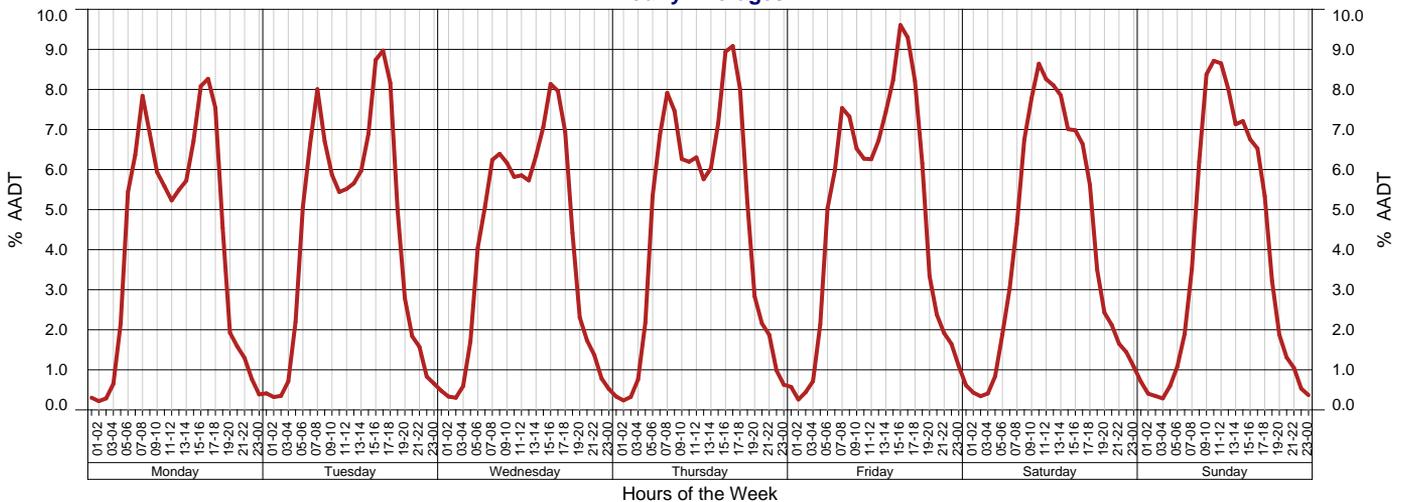
AADT History

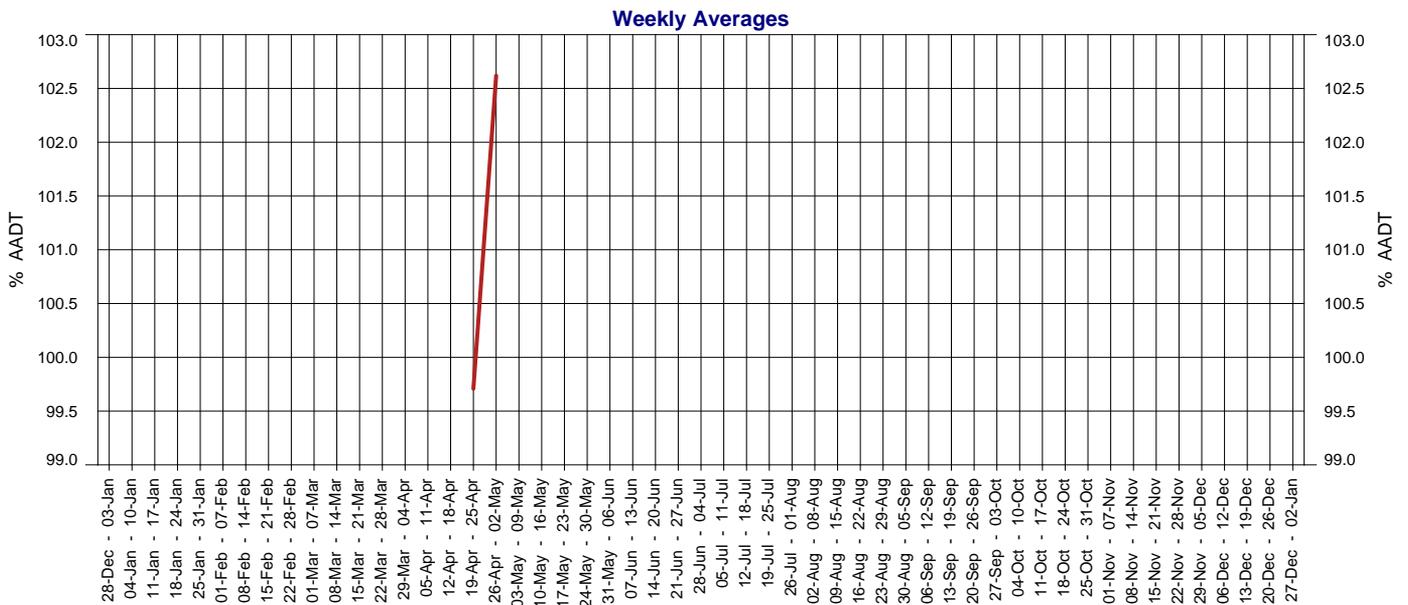
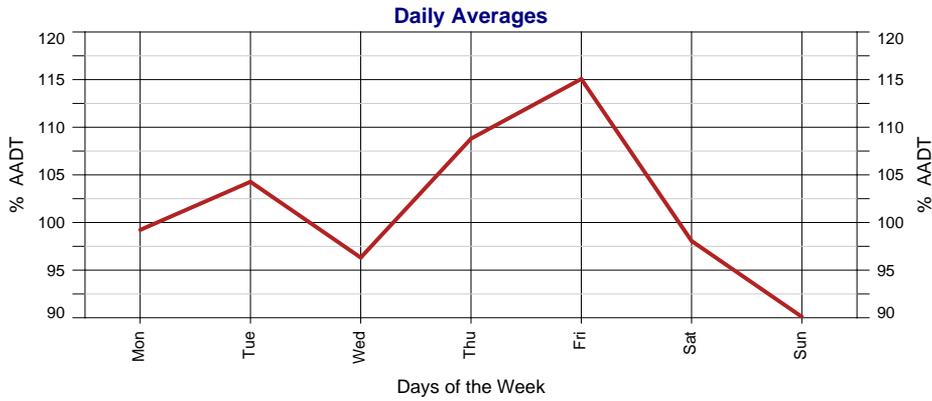


Year	AADT	1-Year Growth	5-Year Growth	10-Year Growth
2018	10,987	4.34%	3.20%	3.00%
2017	10,530	2.19%	2.85%	2.76%
2016	10,304	6.08%	3.32%	3.03%
2015	9,713	0.96%	2.36%	2.60%
2014	9,621	-0.01%	2.65%	2.84%
2013	9,622	5.77%	3.18%	3.31%
2012	9,097	5.58%	2.31%	2.95%
2011	8,616	-0.43%	2.23%	2.58%
2010	8,653	0.85%	3.25%	3.01%
2009	8,580	1.91%	3.71%	
2008	8,419	4.70%	4.14%	
2007	8,041	10.88%	3.73%	
2006	7,252	-2.24%	1.55%	
2005	7,418	0.80%	2.71%	
2004	7,359	6.07%		

Year	AADT	1-Year Growth	5-Year Growth	10-Year Growth
2003	6,938	3.17%		
2002	6,725	1.72%		
2001	6,611	-0.03%		
2000	6,613			
1999				
1998				
1997				
1996				
1995				
1994				
1993				
1992				
1991				
1990				
1989				

Hourly Averages





2018 Calendar

January							February							March							April						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7				1	2	3	4				1	2	3	4	30						1
8	9	10	11	12	13	14	5	6	7	8	9	10	11	5	6	7	8	9	10	11	2	3	4	5	6	7	8
15	16	17	18	19	20	21	12	13	14	15	16	17	18	12	13	14	15	16	17	18	9	10	11	12	13	14	15
22	23	24	25	26	27	28	19	20	21	22	23	24	25	19	20	21	22	23	24	25	16	17	18	19	20	21	22
29	30	31	26	27	28	26	27	28	29	30	31	23	24	25	26	27	28	29									

May							June							July							August							
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	
	1	2	3	4	5	6					1	2	3	30	31					1				1	2	3	4	5
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19	
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	
28	29	30	31	25	26	27	28	29	30	23	24	25	26	27	28	29	27	28	29	30	31							

September							October							November							December							
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	
					1	2	1	2	3	4	5	6	7				1	2	3	4	31						1	2
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	
24	25	26	27	28	29	30	29	30	31	26	27	28	29	30	24	25	26	27	28	29	30							

Days on which traffic data was collected.

Annual Volume Report

Displays AADT history with hourly, daily and weekly patterns by Stream in addition to annual data for AADT figures with 1 year, 5 year and 10 year growth rates.

Annual Average Daily Traffic (AADT)

Annual Average Daily Traffic (AADT) is the number of vehicles passing a point on a road in a 24 hour period, averaged over a calendar year.

AADT History

Displays the years when traffic data was collected at this count site.

Area

For administration purposes the Department of Transport and Main Roads has divided Queensland into 12 Districts. The Area field in TSDM reports displays the District Name and Number.

District Name	District
Central West District	401
Darling Downs District	402
Far North District	403
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Mackay/Whitsunday District	405
Metropolitan District	406
North Coast District	407
North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

Avg Week Day

Average daily traffic volume during the week days, Monday to Friday.

Avg Weekend Day

Average daily traffic volume during the weekend, Saturday and Sunday.

Calendar

Days on which traffic data was collected are highlighted in green.

Gazettal Direction

The Gazettal Direction is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

- G Traffic flowing in Gazettal Direction
- A Traffic flowing against Gazettal Direction
- B The combined traffic flow in both Directions

Growth Percentage

Represents the increase or decrease in AADT, using a exponential fit over the previous 1, 5 or 10 year period.

Hour, Day & Week Averages

The amount of traffic on the road network will vary depending on the time of day, the day of the week and the week of the year. The ebb and flow of traffic travelling through a site over a period of time forms a pattern. The Hour, Day and Week Averages are then used in the calculation of AADT.

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazettal Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Site

The unique identifier and description of the physical location of a traffic counting device. Sites are located at a Through Distance along a Road Section.

Stream

The lane in which the traffic is travelling in. This report provides data for the combined flow of traffic in both directions.

Thru Dist or TDist

The distance from the beginning of the Road Section, in kilometres.

Type

There are two types of traffic counting sites, Permanent and Coverage. Permanent means the traffic counting device is in place 24/7. Coverage means the traffic counting device is in place for a specified period of time.

Year

Is the current year for the report. Where an AADT Year record is missing a traffic count has not been conducted, for that year.

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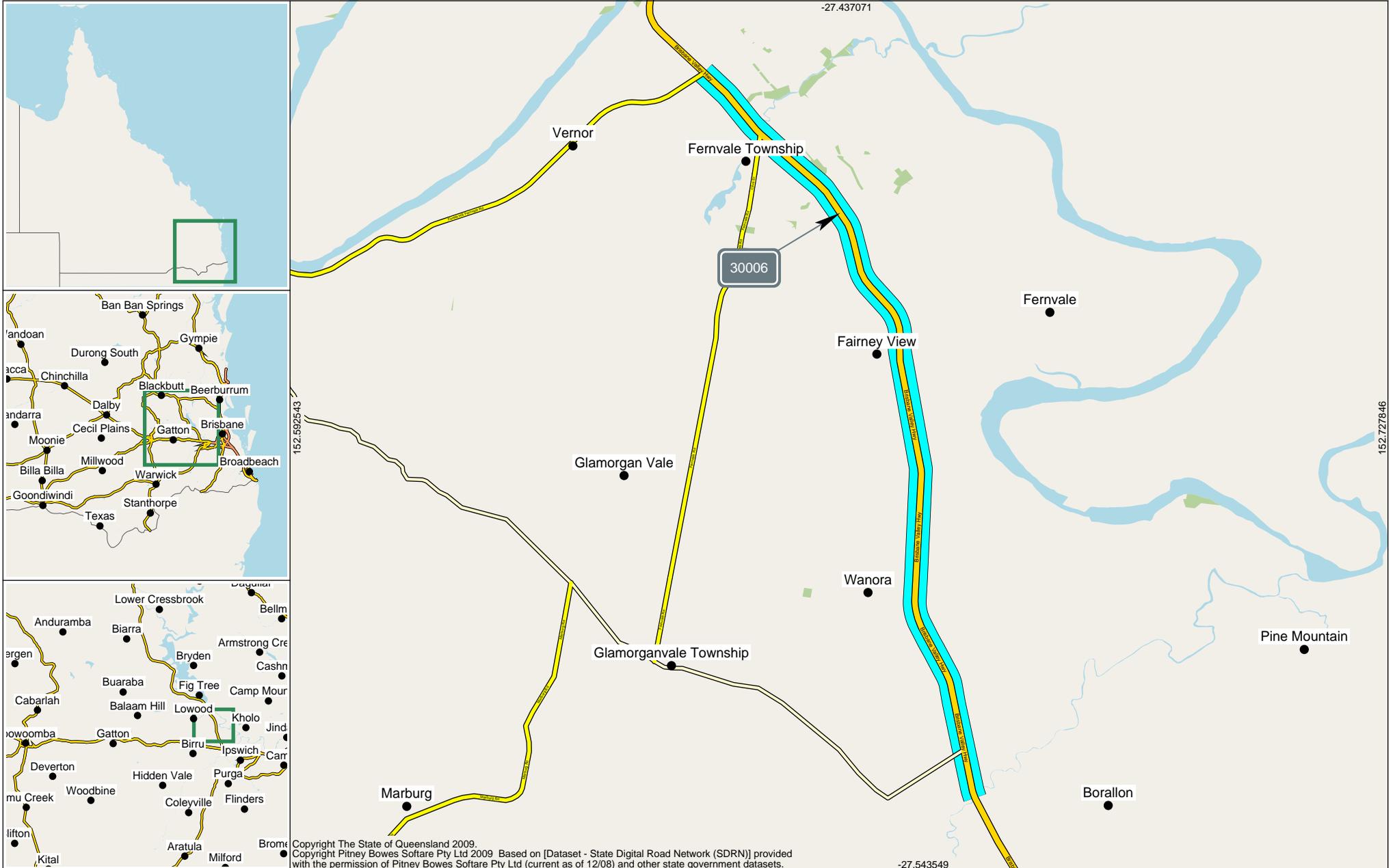
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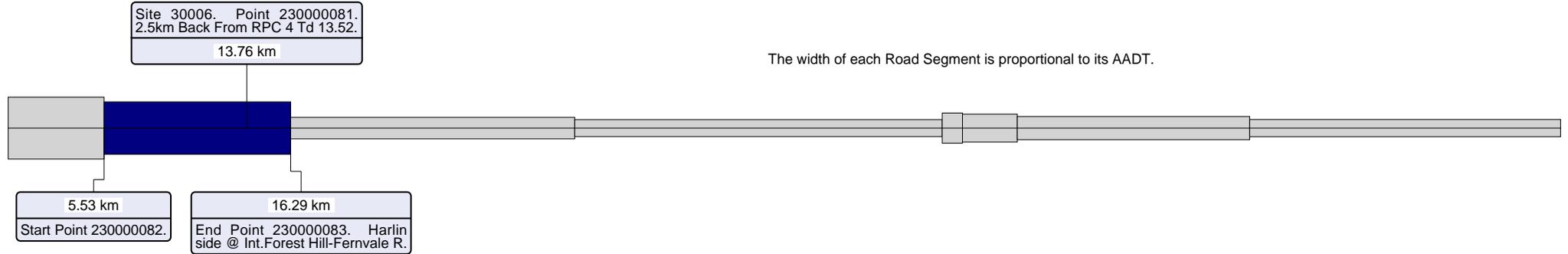
AADT Segment Report

Area 407 - North Coast District
Road Segment from 5.530km to 16.290km

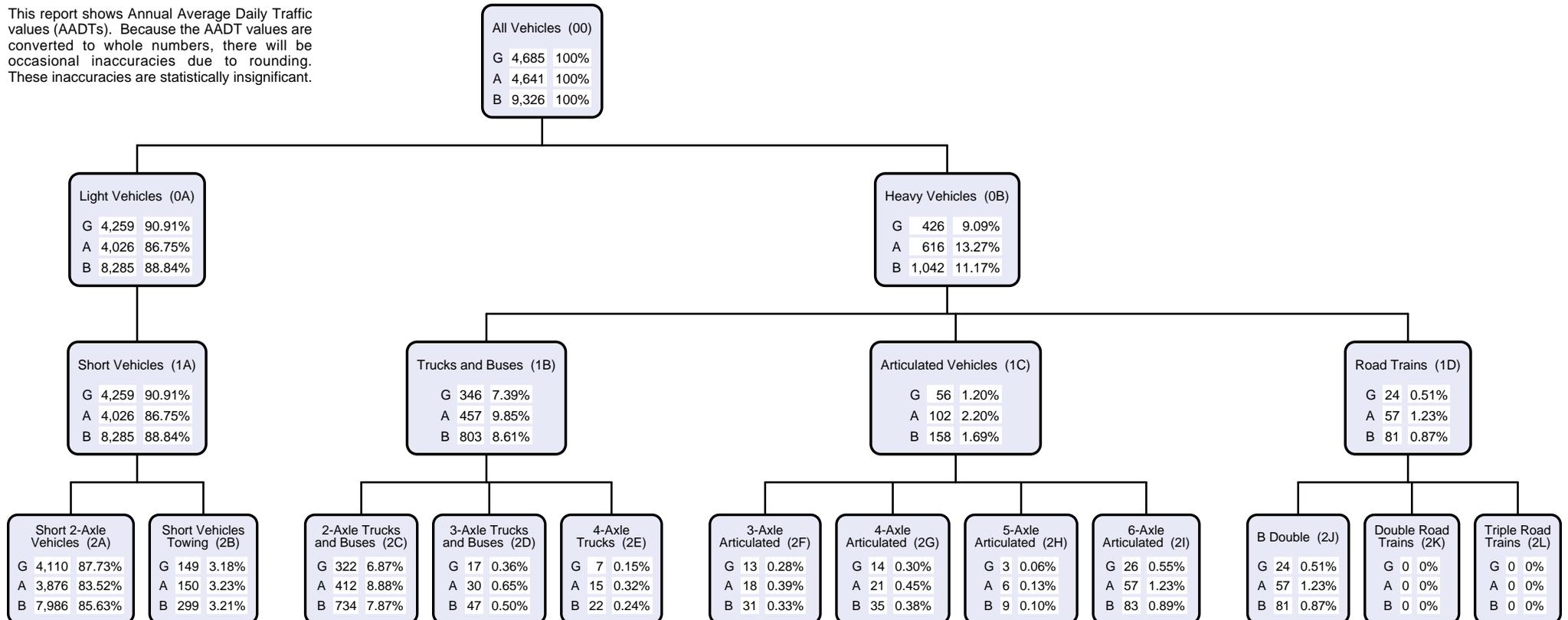
Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)
Segment Site 30006 Traffic Year 2018 Data Collection Year 2018



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This report shows Annual Average Daily Traffic values (AADTs). Because the AADT values are converted to whole numbers, there will be occasional inaccuracies due to rounding. These inaccuracies are statistically insignificant.



AADT Segment Annual Volume Report

Provides summary data for the selected AADT Segment of a Road Section. Summary data is presented as both directional information and a combined bi-directional figure. The data is then broken down by Traffic Class, when available. The report also includes maps displaying the location of both the AADT Segment and the traffic count site.

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- A Traffic flow against gazettal direction
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Please Note:

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Gazettal Direction

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Maps

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Road Section

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Segment Site

Is the unique identifier for the traffic count site representing the traffic flow within the AADT Segment.

Site

The physical location of a traffic counting device. Sites are located at a specified Through Distance along a Road Section.

Site Description

The description of the physical location of the traffic counting device.

Start and End Point

The unique identifier for the Through Distance along a Road Section.

Vehicle Class

Traffic is categorised as per the Austroads Vehicle Classification scheme. Traffic classes are in the following hierarchical format:

Volume or All Vehicles

00 = 0A + 0B

Light Vehicles

0A = 1A

1A = 2A + 2B

Heavy Vehicles

0B = 1B + 1C + 1D

1B = 2C + 2D + 2E

1C = 2F + 2G + 2H + 2I

1D = 2J + 2K + 2L

The following classes are the categories for which data can be captured:

Volume

00 All vehicles

2-Bin

0A Light vehicles

0B Heavy vehicles

4-Bin

1A Short vehicles

1B Truck or bus

1C Articulated vehicles

1D Road train

12-Bin

2A Short 2 axle vehicles

2B Short vehicles towing

2C 2 axle truck or bus

2D 3 axle truck or bus

2E 4 axle truck

2F 3 axle articulated vehicle

2G 4 axle articulated vehicle

2H 5 axle articulated vehicle

2I 6 axle articulated vehicle

2J B double

2K Double road train

2L Triple road train

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Annual Volume Report

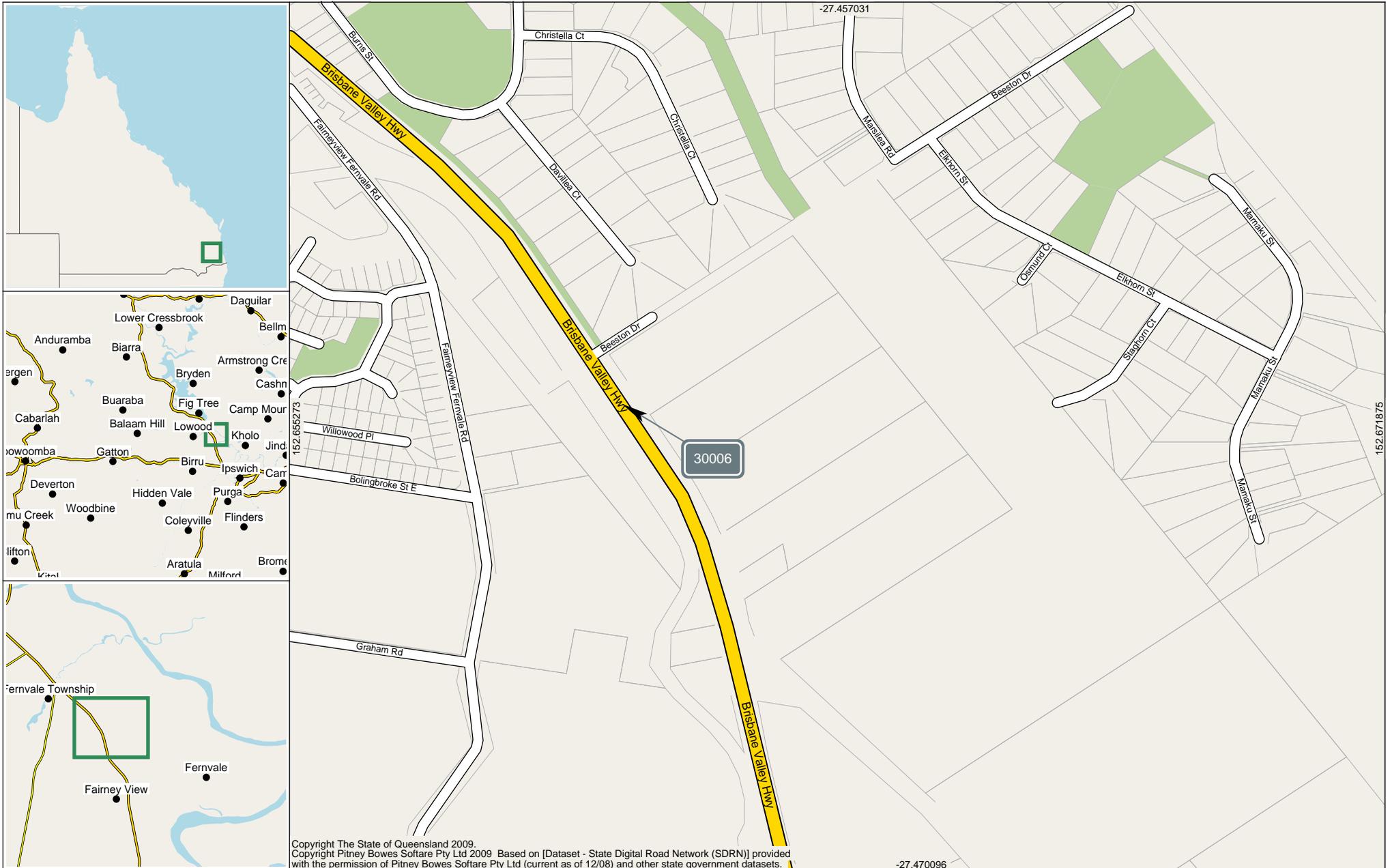
Area 407 - North Coast District

Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)

Site 30006 - 42A - 50m North of Beeston Dr

TDist 13.760km

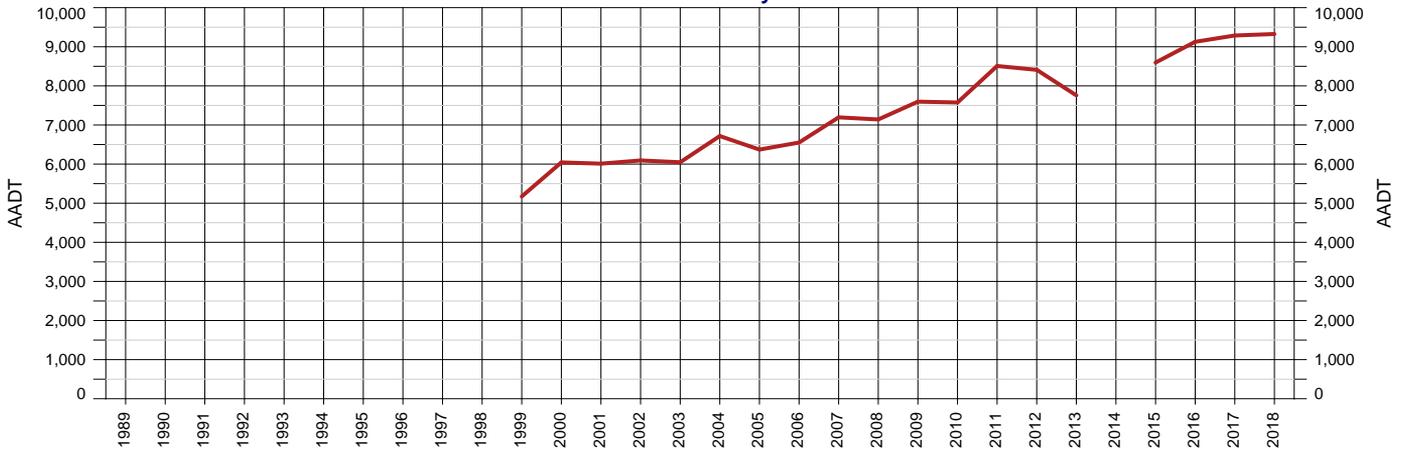
Speed Limit 100



Area 407 - North Coast District
 Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)
 Site 30006 - 42A - 50m North of Beeston Dr
 Thru Dist 13.76
 Type C - Coverage
 Stream TB - Bi-directional traffic flow

Year 2018 Growth last Year 0.41%
 AADT 9,326 Growth last 5 Yrs 3.16%
 Avg Week Day 9,419 Growth last 10 Yrs 2.37%
 Avg Weekend Day 8,859

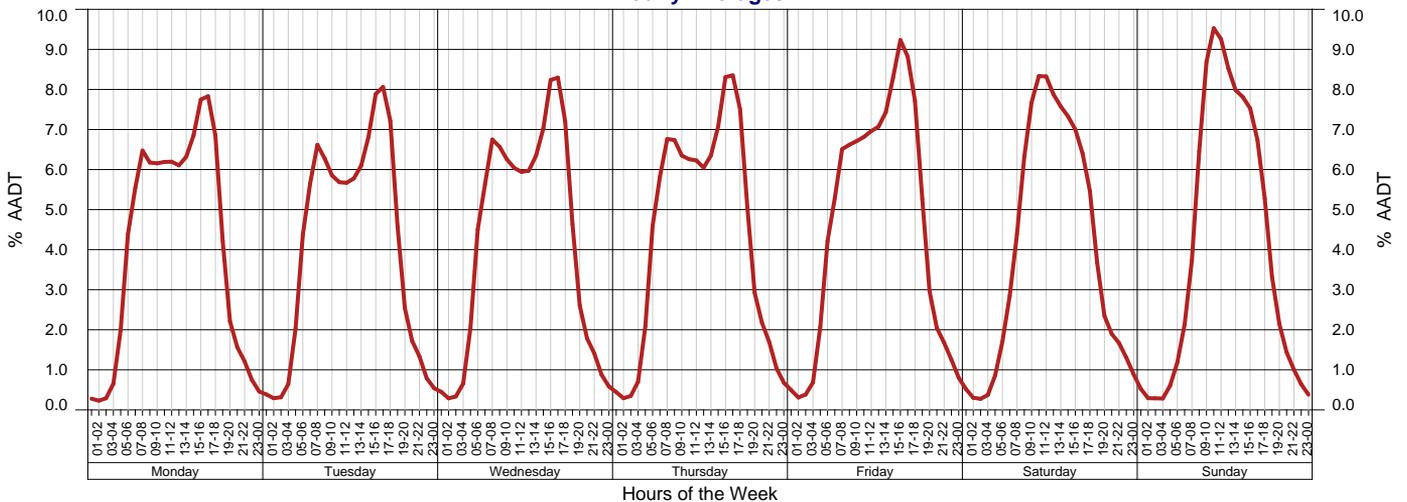
AADT History

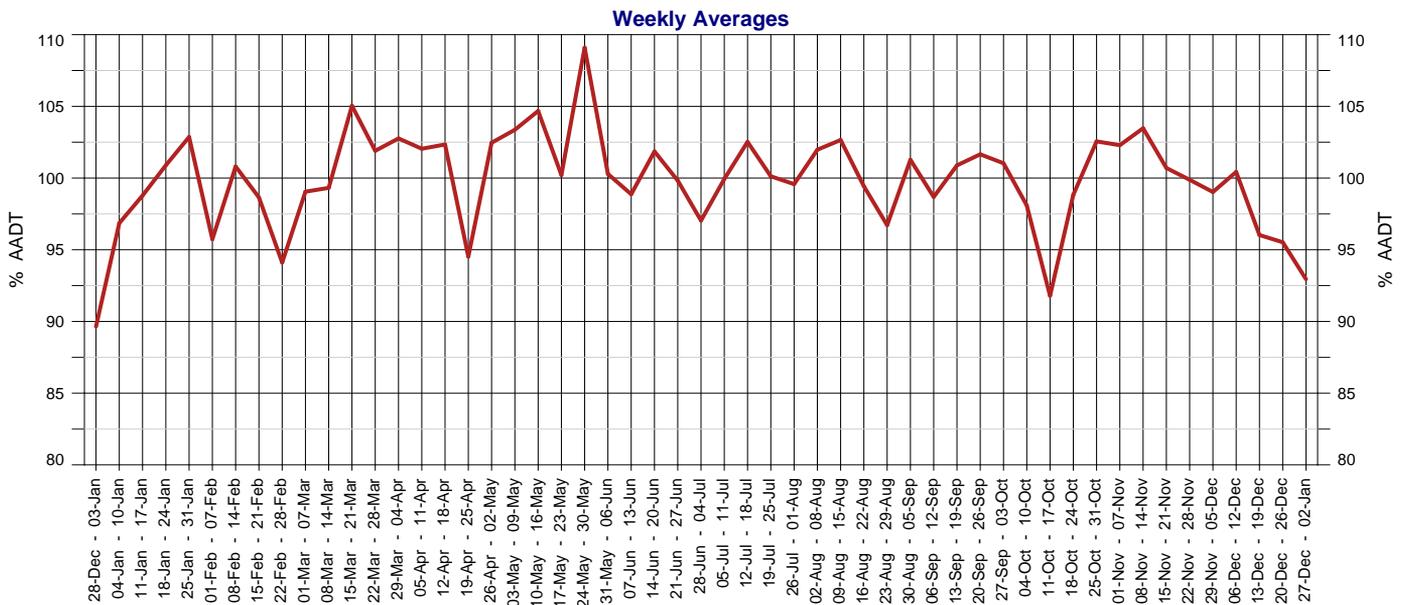
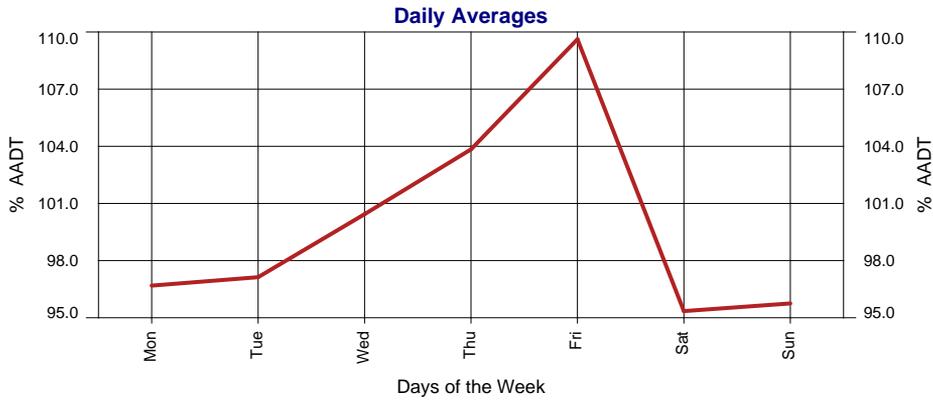


Year	AADT	1-Year Growth	5-Year Growth	10-Year Growth
2018	9,326	0.41%	3.16%	2.37%
2017	9,288	1.76%	3.07%	2.66%
2016	9,127	6.18%	2.43%	2.94%
2015	8,596		1.76%	2.60%
2014				
2013	7,757	-7.76%	0.55%	1.91%
2012	8,410	-1.15%	3.59%	3.53%
2011	8,508	12.32%	5.31%	4.09%
2010	7,575	-0.28%	3.17%	2.66%
2009	7,596	6.37%	3.58%	3.33%
2008	7,141	-0.75%	2.92%	
2007	7,195	9.83%	3.83%	
2006	6,551	2.83%	1.72%	
2005	6,371	-5.15%	1.25%	
2004	6,717	11.08%	4.39%	

Year	AADT	1-Year Growth	5-Year Growth	10-Year Growth
2003	6,047	-0.75%		
2002	6,093	1.36%		
2001	6,011	-0.53%		
2000	6,043	16.84%		
1999	5,172			
1998				
1997				
1996				
1995				
1994				
1993				
1992				
1991				
1990				
1989				

Hourly Averages





2018 Calendar

January							February							March							April								
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S		
1	2	3	4	5	6	7	5	6	7	8	9	10	11	5	6	7	8	9	10	11	30						1		
8	9	10	11	12	13	14	12	13	14	15	16	17	18	12	13	14	15	16	17	18	2	3	4	5	6	7	8		
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22	23	24	25	26	27	28	26	27	28	26	27	28	29	30	31	16	17	18	19	20	21	22	16	17	18	19	20	21	22
29	30	31												23	24	25	26	27	28	29	23	24	25	26	27	28	29		

May							June							July							August						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
	1	2	3	4	5	6				1	2	3	30	31					1				1	2	3	4	5
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28	29	30	31	25	26	27	28	29	30	23	24	25	26	27	28	29	27	28	29	30	31	27	28	29	30	31	

September							October							November							December							
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	
					1	2	1	2	3	4	5	6	7				1	2	3	4	31						1	2
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	
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24	25	26	27	28	29	30	29	30	31	26	27	28	29	30	24	25	26	27	28	29	30	24	25	26	27	28	29	30

Days on which traffic data was collected.

Annual Volume Report

Displays AADT history with hourly, daily and weekly patterns by Stream in addition to annual data for AADT figures with 1 year, 5 year and 10 year growth rates.

Annual Average Daily Traffic (AADT)

Annual Average Daily Traffic (AADT) is the number of vehicles passing a point on a road in a 24 hour period, averaged over a calendar year.

AADT History

Displays the years when traffic data was collected at this count site.

Area

For administration purposes the Department of Transport and Main Roads has divided Queensland into 12 Districts. The Area field in TSDM reports displays the District Name and Number.

District Name	District
Central West District	401
Darling Downs District	402
Far North District	403
Fitzroy District	404
Mackay/Whitsunday District	405
Metropolitan District	406
North Coast District	407
North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

Avg Week Day

Average daily traffic volume during the week days, Monday to Friday.

Avg Weekend Day

Average daily traffic volume during the weekend, Saturday and Sunday.

Calendar

Days on which traffic data was collected are highlighted in green.

Gazettal Direction

The Gazettal Direction is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

- G Traffic flowing in Gazettal Direction
- A Traffic flowing against Gazettal Direction
- B The combined traffic flow in both Directions

Growth Percentage

Represents the increase or decrease in AADT, using a exponential fit over the previous 1, 5 or 10 year period.

Hour, Day & Week Averages

The amount of traffic on the road network will vary depending on the time of day, the day of the week and the week of the year. The ebb and flow of traffic travelling through a site over a period of time forms a pattern. The Hour, Day and Week Averages are then used in the calculation of AADT.

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazettal Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Site

The unique identifier and description of the physical location of a traffic counting device. Sites are located at a Through Distance along a Road Section.

Stream

The lane in which the traffic is travelling in. This report provides data for the combined flow of traffic in both directions.

Thru Dist or TDist

The distance from the beginning of the Road Section, in kilometres.

Type

There are two types of traffic counting sites, Permanent and Coverage. Permanent means the traffic counting device is in place 24/7. Coverage means the traffic counting device is in place for a specified period of time.

Year

Is the current year for the report. Where an AADT Year record is missing a traffic count has not been conducted, for that year.

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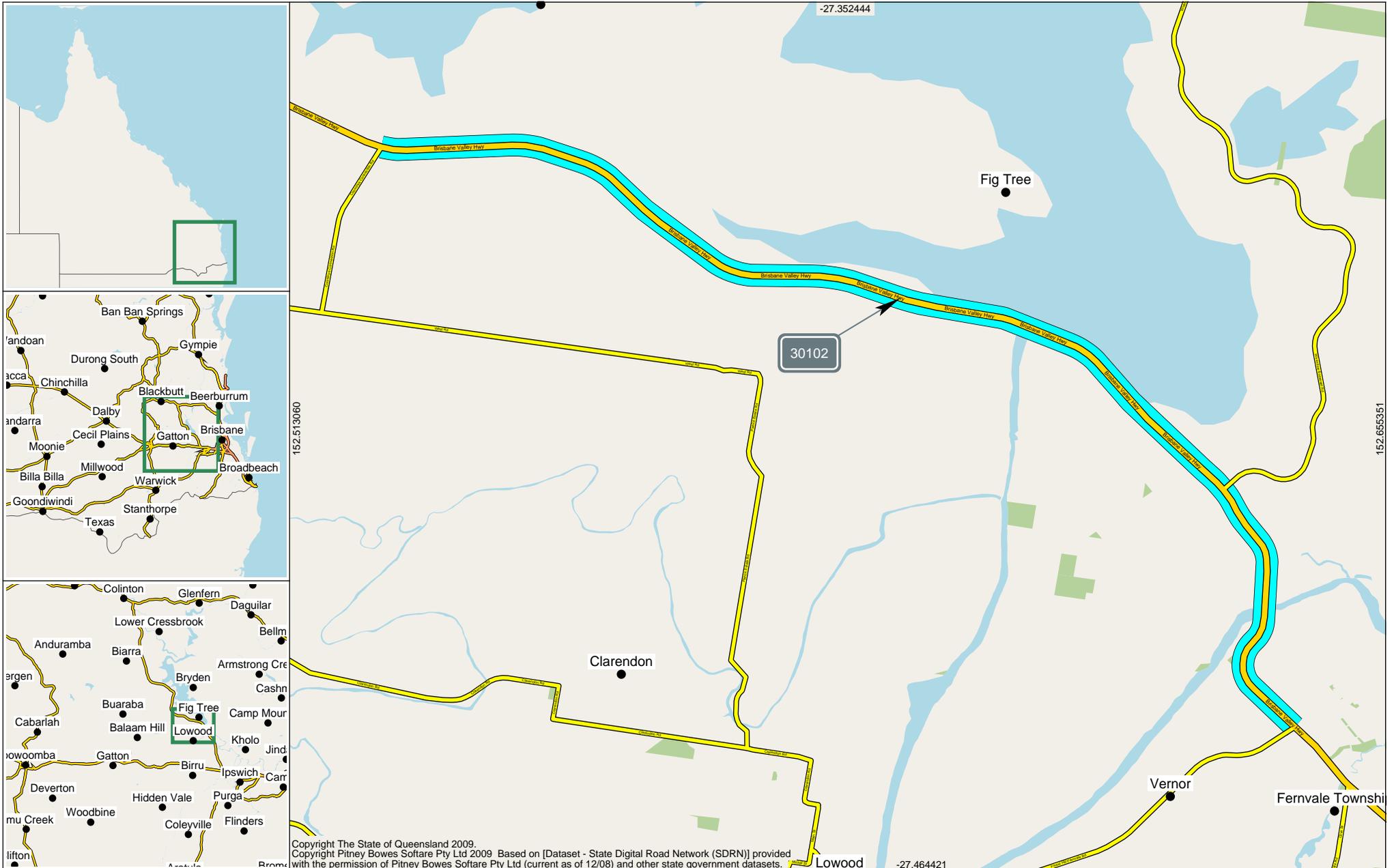
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AADT Segment Report

Area 407 - North Coast District
Road Segment from 16.290km to 32.670km

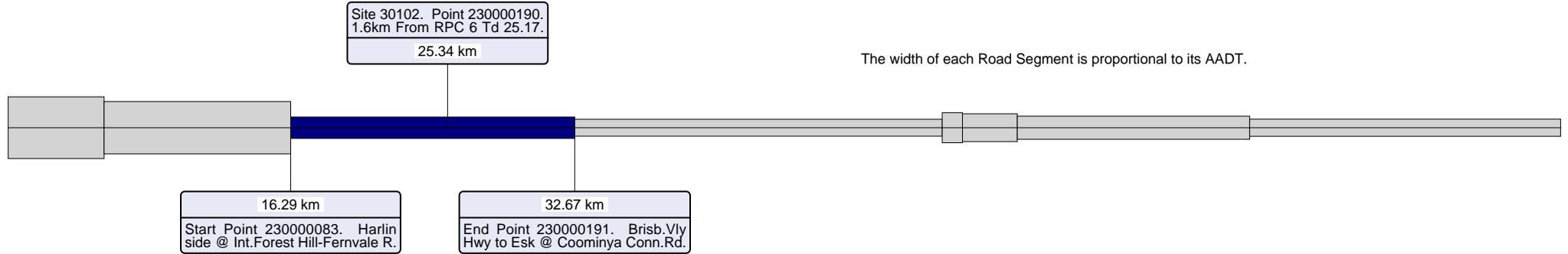
Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)
Segment Site 30102 Traffic Year 2018 Data Collection Year 2018



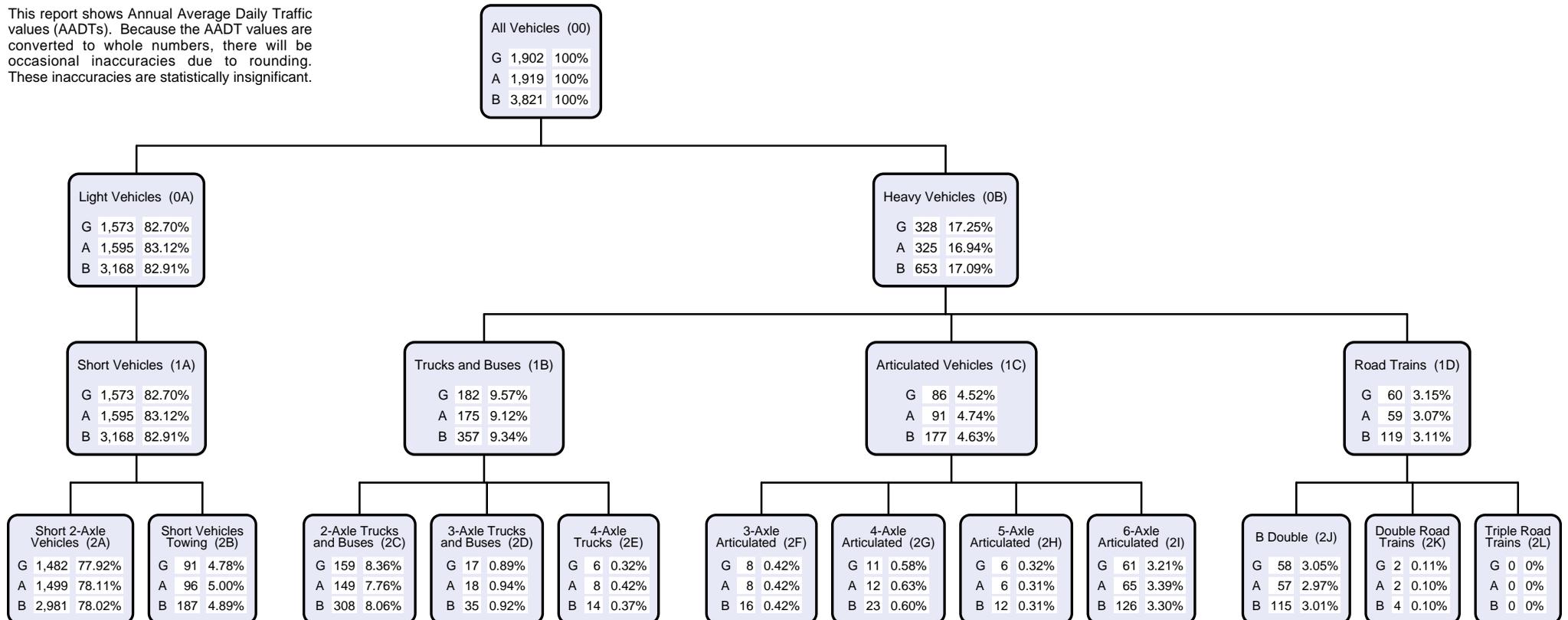
AADT Segment Report

Area 407 - North Coast District
Road Segment from 16.290km to 32.670km

Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)
Segment Site 30102 Traffic Year 2018 Data Collection Year 2018



This report shows Annual Average Daily Traffic values (AADTs). Because the AADT values are converted to whole numbers, there will be occasional inaccuracies due to rounding. These inaccuracies are statistically insignificant.



AADT Segment Annual Volume Report

Provides summary data for the selected AADT Segment of a Road Section. Summary data is presented as both directional information and a combined bi-directional figure. The data is then broken down by Traffic Class, when available. The report also includes maps displaying the location of both the AADT Segment and the traffic count site.

Annual Average Daily Traffic (AADT)

Annual Average Daily Traffic (AADT) is the number of vehicles passing a point on a road in a 24 hour period, averaged over a calendar year.

AADT Segments

The State declared road network is broken into Road Sections and then further broken down into AADT Segments. An AADT Segment is a sub-section of the declared road network where traffic volume is similar along the entire AADT Segment.

Area

For administration purposes the Department of Transport and Main Roads has divided Queensland into 12 Districts. The Area field in TSDM reports displays the District Name and Number.

District Name	District
Central West District	401
Darling Downs District	402
Far North District	403
Fitzroy District	404
Mackay/Whitsunday District	405
Metropolitan District	406
North Coast District	407
North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

AADT Values

AADT values are displayed by direction of travel as:

- G Traffic flow in gazettal direction
- A Traffic flow against gazettal direction
- B Traffic flow in both directions

Data Collection Year

Is the most recent year that data was collected at the data collection site.

Please Note:

Due to location and/or departmental policy, some sites are not counted every year.

Gazettal Direction

Is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

Maps

Display the selected location from a range of viewing levels, the start and end position details for the AADT Segment and the location of the traffic count site.

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazettal Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Segment Site

Is the unique identifier for the traffic count site representing the traffic flow within the AADT Segment.

Site

The physical location of a traffic counting device. Sites are located at a specified Through Distance along a Road Section.

Site Description

The description of the physical location of the traffic counting device.

Start and End Point

The unique identifier for the Through Distance along a Road Section.

Vehicle Class

Traffic is categorised as per the Austroads Vehicle Classification scheme. Traffic classes are in the following hierarchical format:

Volume or All Vehicles

00 = 0A + 0B

Light Vehicles

0A = 1A

1A = 2A + 2B

Heavy Vehicles

0B = 1B + 1C + 1D

1B = 2C + 2D + 2E

1C = 2F + 2G + 2H + 2I

1D = 2J + 2K + 2L

The following classes are the categories for which data can be captured:

Volume

00 All vehicles

2-Bin

0A Light vehicles

0B Heavy vehicles

4-Bin

1A Short vehicles

1B Truck or bus

1C Articulated vehicles

1D Road train

12-Bin

2A Short 2 axle vehicles

2B Short vehicles towing

2C 2 axle truck or bus

2D 3 axle truck or bus

2E 4 axle truck

2F 3 axle articulated vehicle

2G 4 axle articulated vehicle

2H 5 axle articulated vehicle

2I 6 axle articulated vehicle

2J B double

2K Double road train

2L Triple road train

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Annual Volume Report

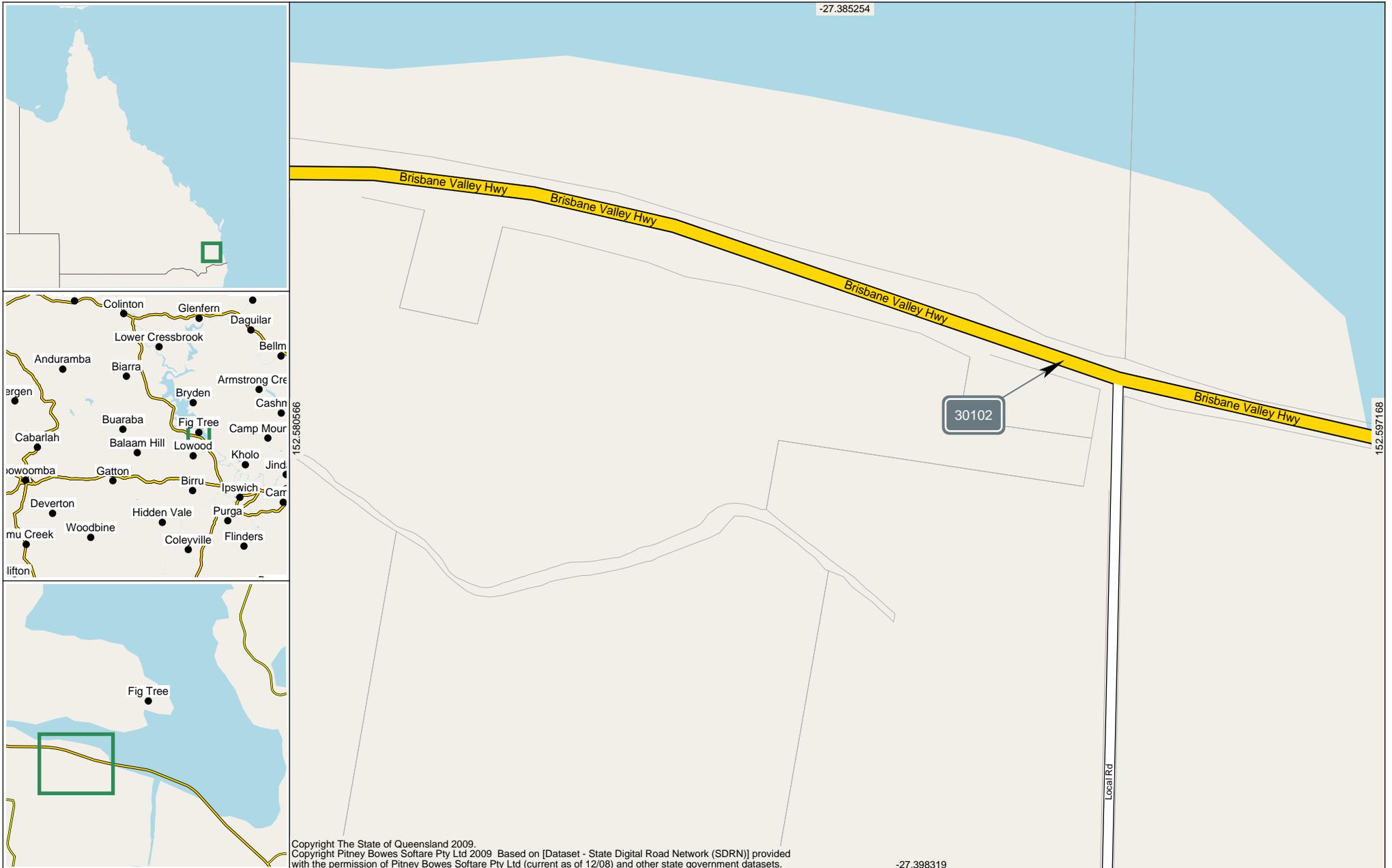
Area 407 - North Coast District

Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)

Site 30102 - 42A - 400m North of Wivenhoe Info Centre

TDist 25.340km

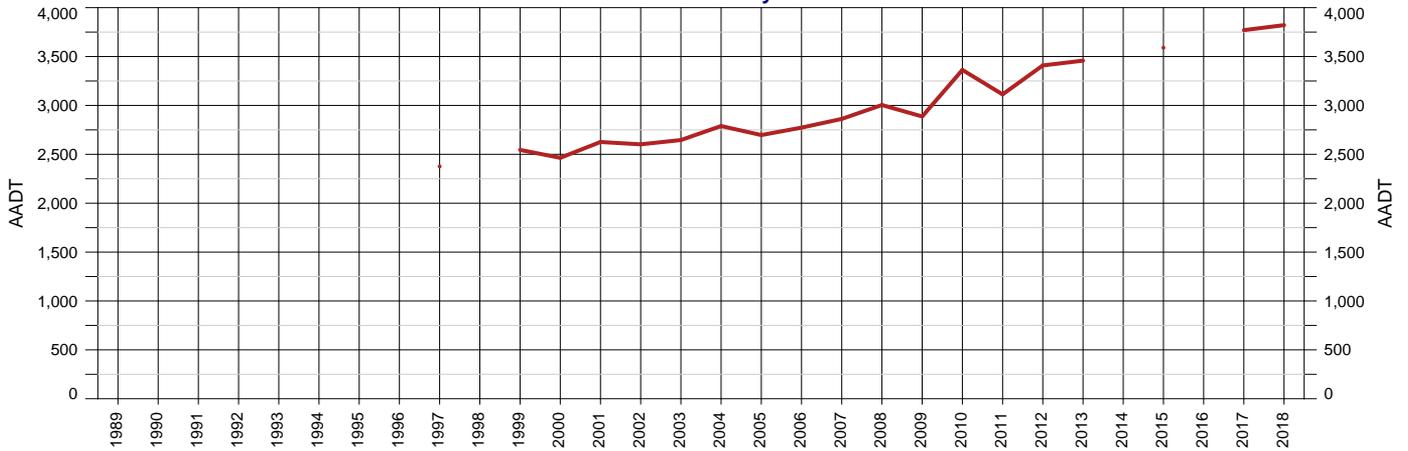
Speed Limit 100



Area 407 - North Coast District
 Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)
 Site 30102 - 42A - 400m North of Wivenhoe Info Centre
 Thru Dist 25.34
 Type C - Coverage
 Stream TB - Bi-directional traffic flow

Year 2018
 AADT 3,821
 Avg Week Day 3,782
 Avg Weekend Day 3,935
 Growth last Year 1.35%
 Growth last 5 Yrs 2.02%
 Growth last 10 Yrs 2.43%

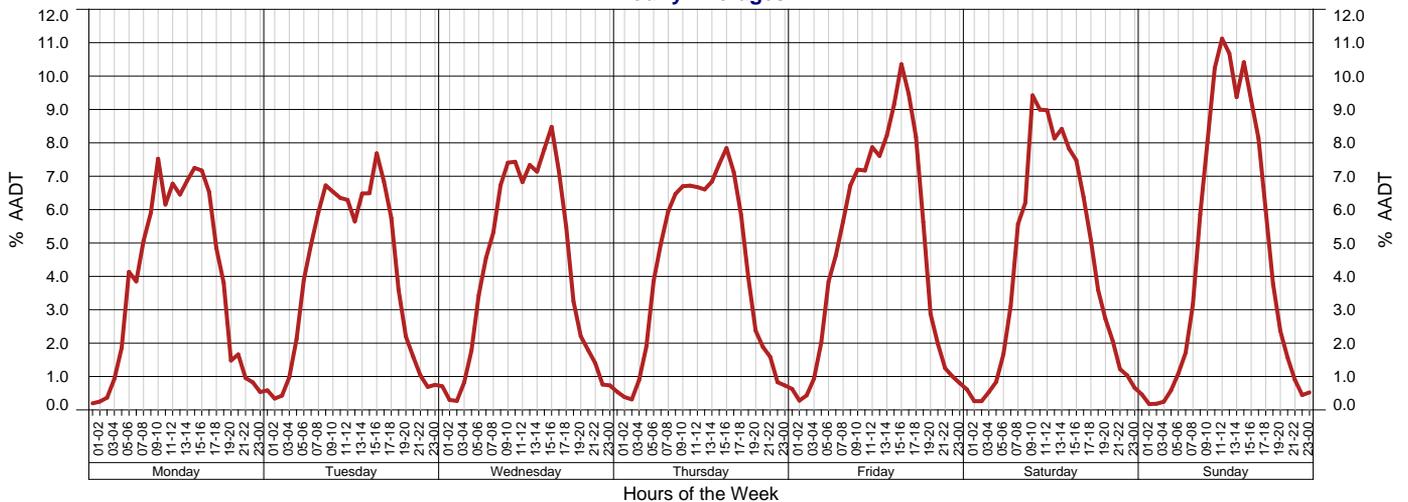
AADT History

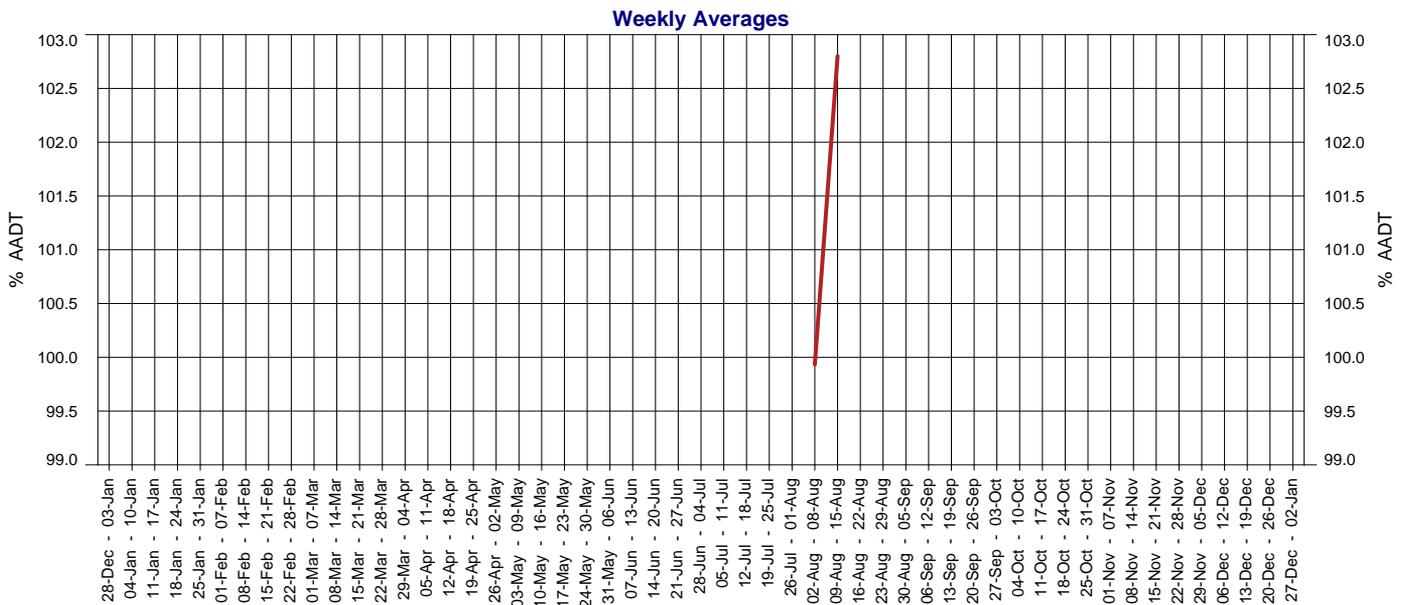
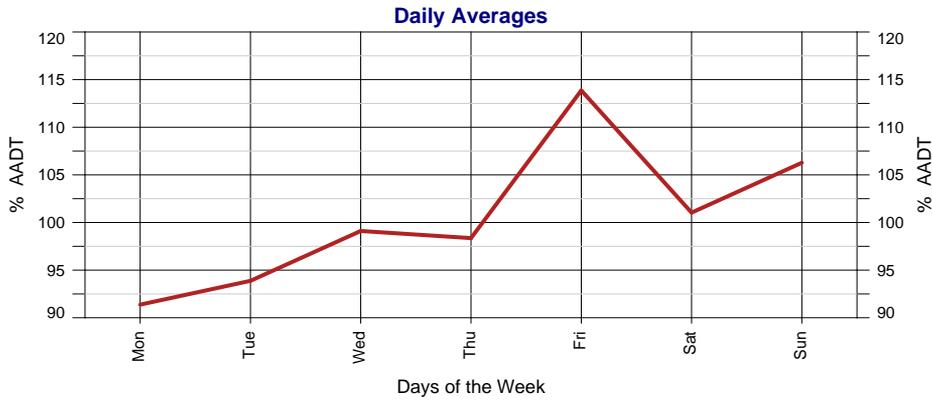


Year	AADT	1-Year Growth	5-Year Growth	10-Year Growth
2018	3,821	1.35%	2.02%	2.43%
2017	3,770		2.13%	2.66%
2016				
2015	3,590		2.11%	2.82%
2014				
2013	3,458	1.44%	3.20%	2.90%
2012	3,409	9.51%	3.70%	3.02%
2011	3,113	-7.43%	2.01%	1.92%
2010	3,363	16.49%	5.10%	3.41%
2009	2,887	-3.89%	0.99%	1.37%
2008	3,004	4.96%	2.70%	
2007	2,862	3.21%	1.87%	1.79%
2006	2,773	2.82%	1.25%	
2005	2,697	-3.30%	1.23%	
2004	2,789	5.40%	2.44%	

Year	AADT	1-Year Growth	5-Year Growth	10-Year Growth
2003	2,646	1.69%		
2002	2,602	-0.91%	1.60%	
2001	2,626	6.57%		
2000	2,464	-3.18%		
1999	2,545			
1998				
1997	2,376			
1996				
1995				
1994				
1993				
1992				
1991				
1990				
1989				

Hourly Averages





2018 Calendar

January							February							March							April						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7	5	6	7	8	9	10	11	5	6	7	8	9	10	11	30	31					1
8	9	10	11	12	13	14	12	13	14	15	16	17	18	12	13	14	15	16	17	18	2	3	4	5	6	7	8
15	16	17	18	19	20	21	19	20	21	22	23	24	25	19	20	21	22	23	24	25	9	10	11	12	13	14	15
22	23	24	25	26	27	28	26	27	28					26	27	28	29	30	31	16	17	18	19	20	21	22	
29	30	31																			23	24	25	26	27	28	29
May							June							July							August						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
	1	2	3	4	5	6				1	2	3		30	31					1			1	2	3	4	5
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
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21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
28	29	30	31				25	26	27	28	29	30	23	24	25	26	27	28	29	27	28	29	30	31			
September							October							November							December						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
					1	2	1	2	3	4	5	6	7				1	2	3	4	31						
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23
24	25	26	27	28	29	30	29	30	31					26	27	28	29	30	24	25	26	27	28	29	30		

Days on which traffic data was collected.

Annual Volume Report

Displays AADT history with hourly, daily and weekly patterns by Stream in addition to annual data for AADT figures with 1 year, 5 year and 10 year growth rates.

Annual Average Daily Traffic (AADT)

Annual Average Daily Traffic (AADT) is the number of vehicles passing a point on a road in a 24 hour period, averaged over a calendar year.

AADT History

Displays the years when traffic data was collected at this count site.

Area

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North Coast District	407
North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

Avg Week Day

Average daily traffic volume during the week days, Monday to Friday.

Avg Weekend Day

Average daily traffic volume during the weekend, Saturday and Sunday.

Calendar

Days on which traffic data was collected are highlighted in green.

Gazettal Direction

The Gazettal Direction is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

- G Traffic flowing in Gazettal Direction
- A Traffic flowing against Gazettal Direction
- B The combined traffic flow in both Directions

Growth Percentage

Represents the increase or decrease in AADT, using a exponential fit over the previous 1, 5 or 10 year period.

Hour, Day & Week Averages

The amount of traffic on the road network will vary depending on the time of day, the day of the week and the week of the year. The ebb and flow of traffic travelling through a site over a period of time forms a pattern. The Hour, Day and Week Averages are then used in the calculation of AADT.

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazettal Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Site

The unique identifier and description of the physical location of a traffic counting device. Sites are located at a Through Distance along a Road Section.

Stream

The lane in which the traffic is travelling in. This report provides data for the combined flow of traffic in both directions.

Thru Dist or TDist

The distance from the beginning of the Road Section, in kilometres.

Type

There are two types of traffic counting sites, Permanent and Coverage. Permanent means the traffic counting device is in place 24/7. Coverage means the traffic counting device is in place for a specified period of time.

Year

Is the current year for the report. Where an AADT Year record is missing a traffic count has not been conducted, for that year.

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AADT Segment Report

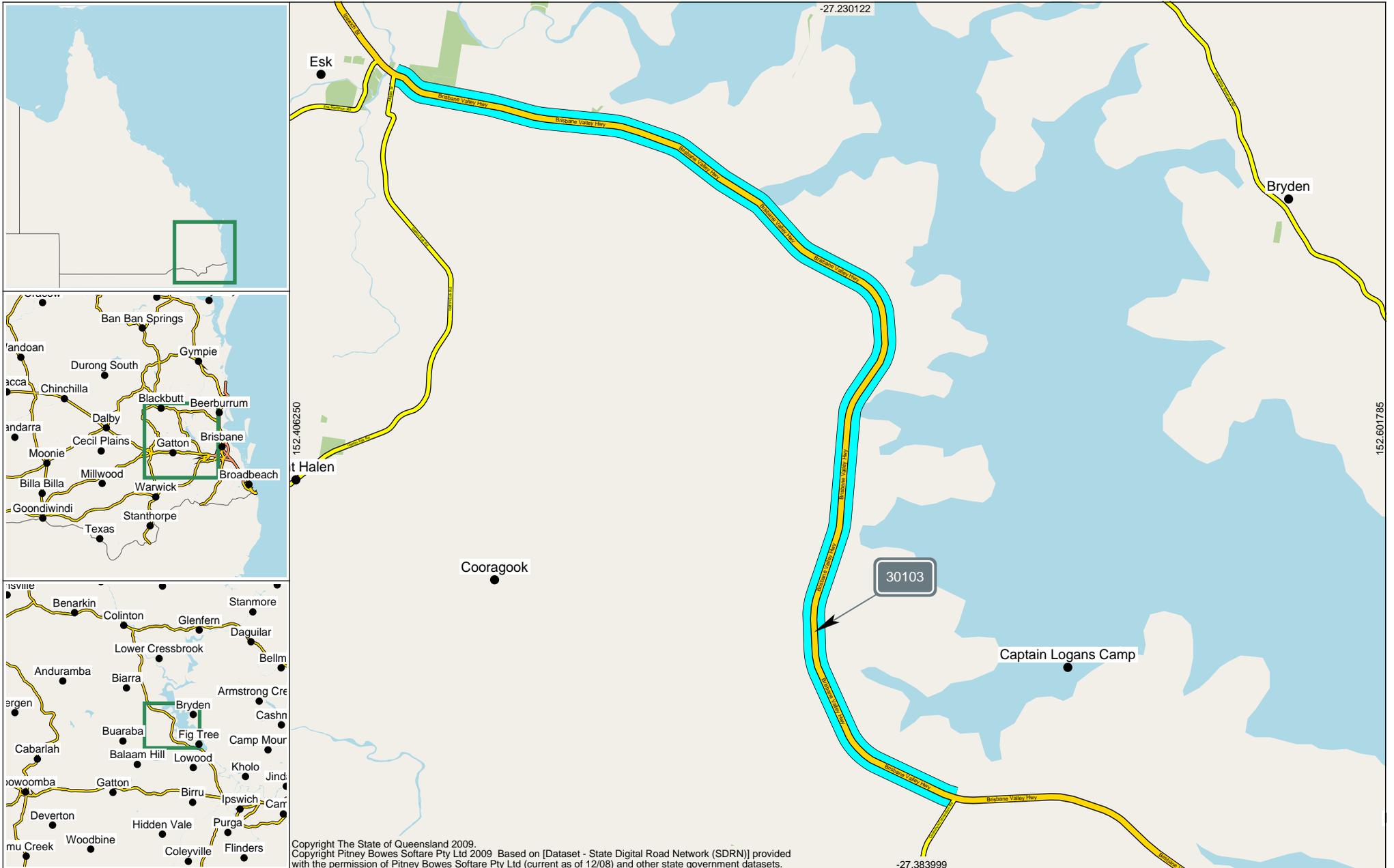
Area 407 - North Coast District
Road Segment from 32.670km to 53.860km

Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)

Segment Site 30103

Traffic Year 2018

Data Collection Year 2018

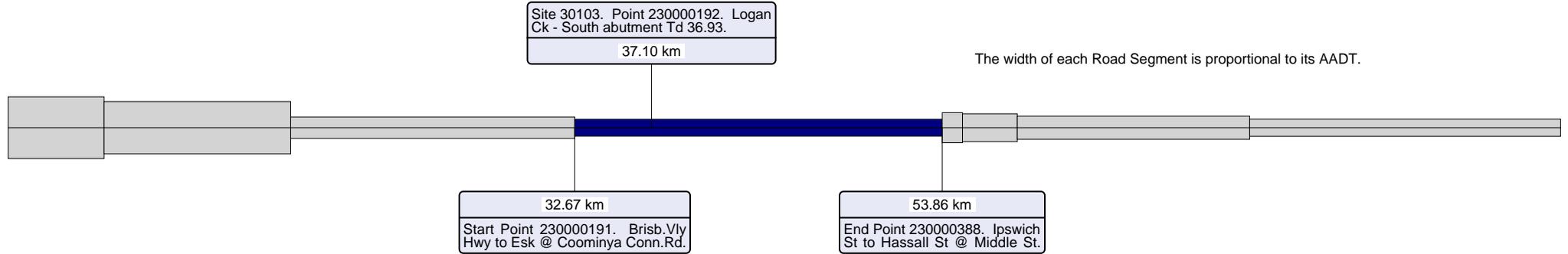


AADT Segment Report

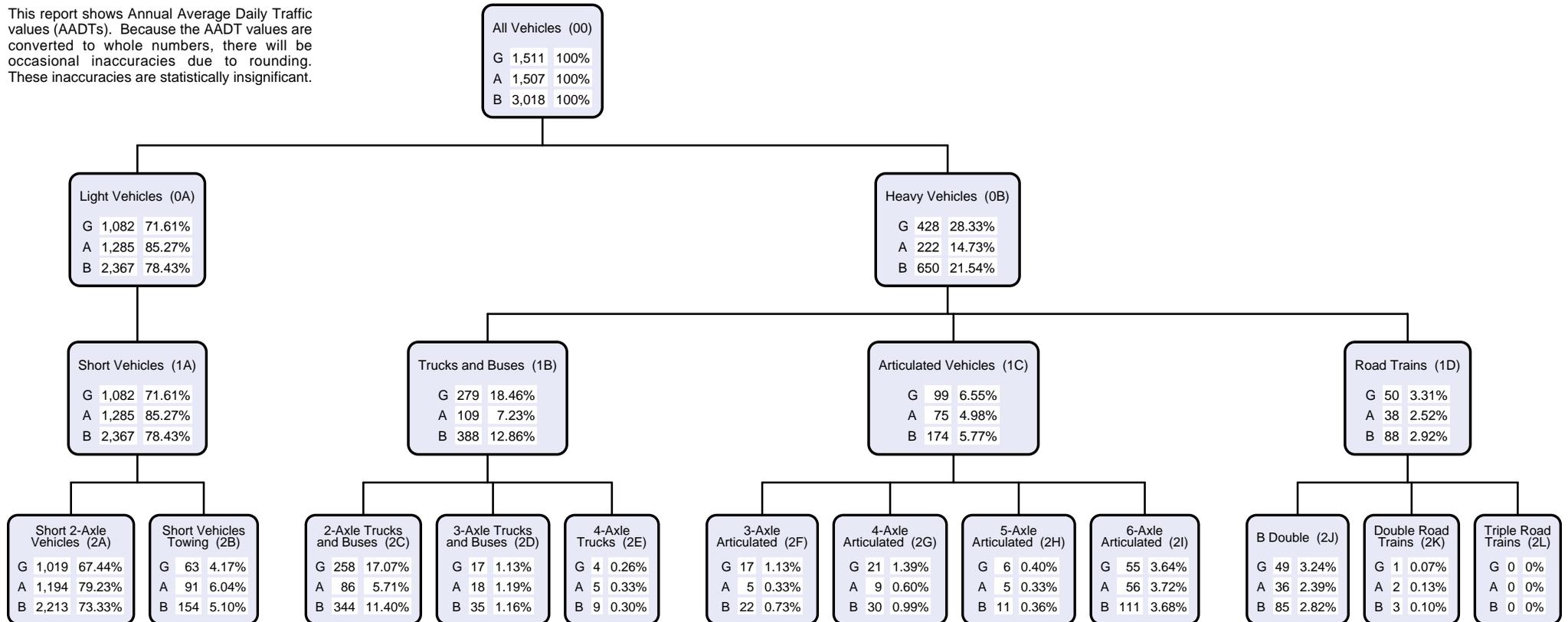
Area 407 - North Coast District
Road Segment from 32.670km to 53.860km

Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)
Segment Site 30103 Traffic Year 2018

Data Collection Year 2018



This report shows Annual Average Daily Traffic values (AADTs). Because the AADT values are converted to whole numbers, there will be occasional inaccuracies due to rounding. These inaccuracies are statistically insignificant.



AADT Segment Annual Volume Report

Provides summary data for the selected AADT Segment of a Road Section. Summary data is presented as both directional information and a combined bi-directional figure. The data is then broken down by Traffic Class, when available. The report also includes maps displaying the location of both the AADT Segment and the traffic count site.

Annual Average Daily Traffic (AADT)

Annual Average Daily Traffic (AADT) is the number of vehicles passing a point on a road in a 24 hour period, averaged over a calendar year.

AADT Segments

The State declared road network is broken into Road Sections and then further broken down into AADT Segments. An AADT Segment is a sub-section of the declared road network where traffic volume is similar along the entire AADT Segment.

Area

For administration purposes the Department of Transport and Main Roads has divided Queensland into 12 Districts. The Area field in TSDM reports displays the District Name and Number.

District Name	District
Central West District	401
Darling Downs District	402
Far North District	403
Fitzroy District	404
Mackay/Whitsunday District	405
Metropolitan District	406
North Coast District	407
North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

AADT Values

AADT values are displayed by direction of travel as:

- G Traffic flow in gazettal direction
- A Traffic flow against gazettal direction
- B Traffic flow in both directions

Data Collection Year

Is the most recent year that data was collected at the data collection site.

Please Note:

Due to location and/or departmental policy, some sites are not counted every year.

Gazettal Direction

Is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

Maps

Display the selected location from a range of viewing levels, the start and end position details for the AADT Segment and the location of the traffic count site.

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazettal Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Segment Site

Is the unique identifier for the traffic count site representing the traffic flow within the AADT Segment.

Site

The physical location of a traffic counting device. Sites are located at a specified Through Distance along a Road Section.

Site Description

The description of the physical location of the traffic counting device.

Start and End Point

The unique identifier for the Through Distance along a Road Section.

Vehicle Class

Traffic is categorised as per the Austroads Vehicle Classification scheme. Traffic classes are in the following hierarchical format:

Volume or All Vehicles

00 = 0A + 0B

Light Vehicles

0A = 1A

1A = 2A + 2B

Heavy Vehicles

0B = 1B + 1C + 1D

1B = 2C + 2D + 2E

1C = 2F + 2G + 2H + 2I

1D = 2J + 2K + 2L

The following classes are the categories for which data can be captured:

Volume

00 All vehicles

2-Bin

0A Light vehicles

0B Heavy vehicles

4-Bin

1A Short vehicles

1B Truck or bus

1C Articulated vehicles

1D Road train

12-Bin

2A Short 2 axle vehicles

2B Short vehicles towing

2C 2 axle truck or bus

2D 3 axle truck or bus

2E 4 axle truck

2F 3 axle articulated vehicle

2G 4 axle articulated vehicle

2H 5 axle articulated vehicle

2I 6 axle articulated vehicle

2J B double

2K Double road train

2L Triple road train

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Annual Volume Report

Area 407 - North Coast District

Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)

Site 30103 - 42A - 550m South of Sterleys Rd

TDist 37.100km

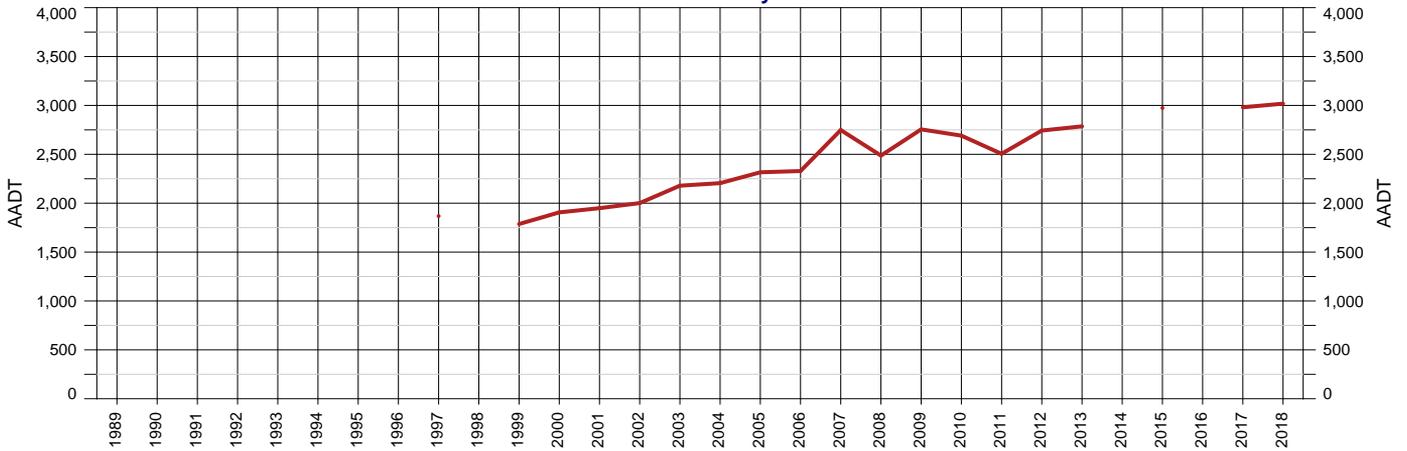
Speed Limit 100



Area 407 - North Coast District
 Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)
 Site 30103 - 42A - 550m South of Sterleys Rd
 Thru Dist 37.1
 Type C - Coverage
 Stream TB - Bi-directional traffic flow

Year 2018
 AADT 3,018
 Avg Week Day 2,957
 Avg Weekend Day 3,229
 Growth last Year 1.24%
 Growth last 5 Yrs 1.31%
 Growth last 10 Yrs 1.66%

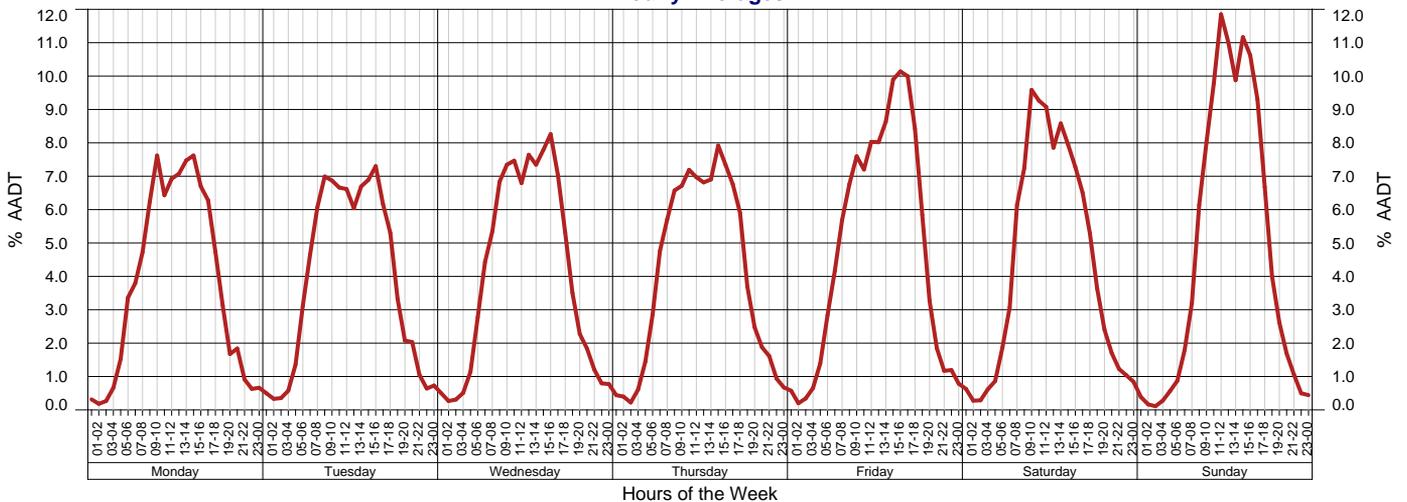
AADT History

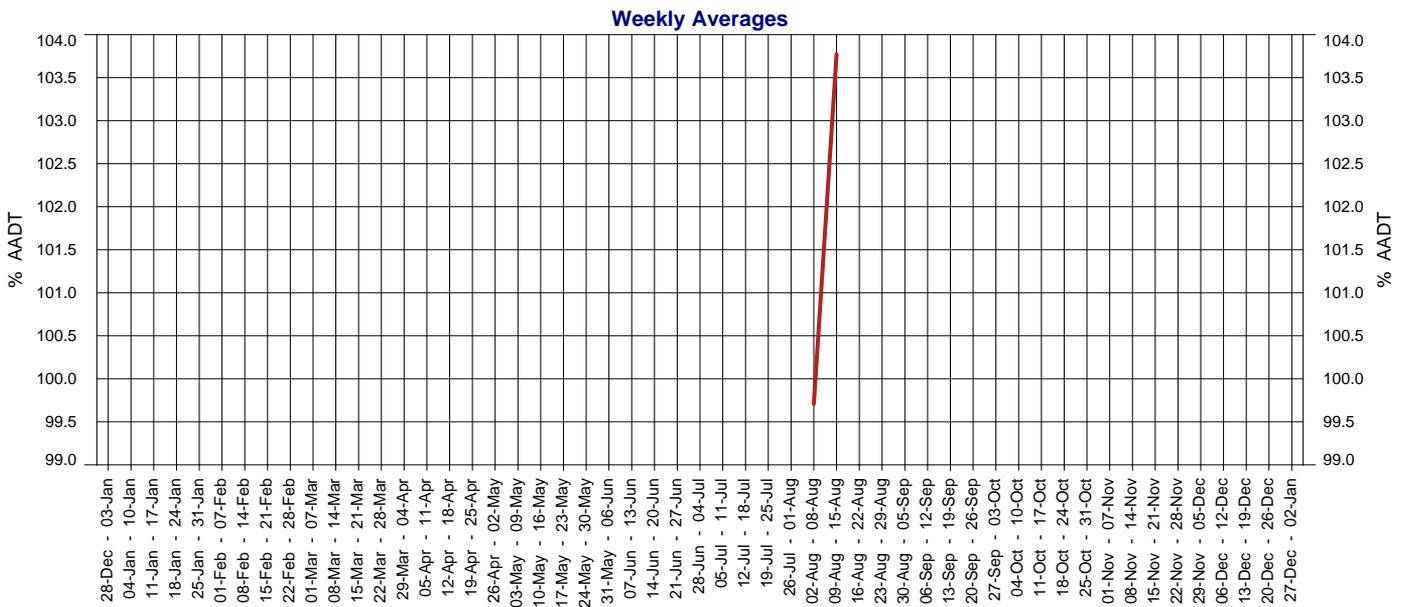
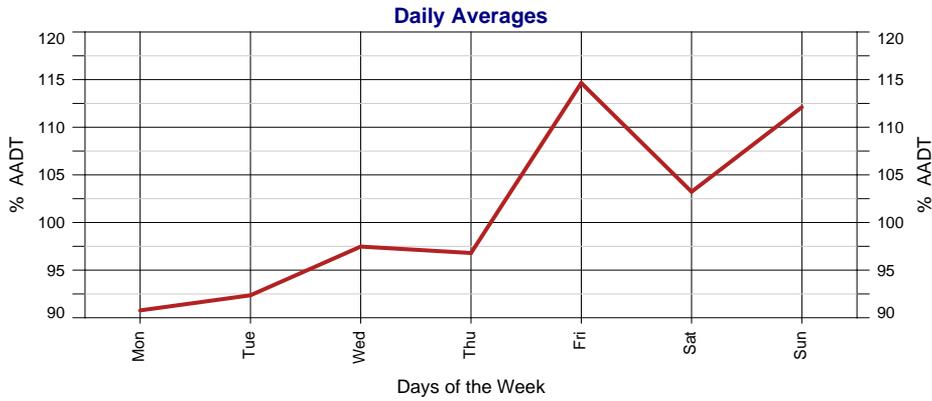


Year	AADT	1-Year Growth	5-Year Growth	10-Year Growth
2018	3,018	1.24%	1.31%	1.66%
2017	2,981		1.55%	1.48%
2016				
2015	2,974		2.93%	2.27%
2014				
2013	2,786	1.57%	1.73%	2.19%
2012	2,743	9.50%	0.91%	2.53%
2011	2,505	-6.91%	-0.45%	1.77%
2010	2,691	-2.32%	2.58%	3.38%
2009	2,755	10.78%	4.50%	4.37%
2008	2,487	-9.50%	2.56%	
2007	2,748	17.99%	6.92%	5.27%
2006	2,329	0.56%	3.35%	
2005	2,316	5.03%	4.22%	
2004	2,205	1.19%	4.10%	

Year	AADT	1-Year Growth	5-Year Growth	10-Year Growth
2003	2,179	8.90%		
2002	2,001	2.67%	2.09%	
2001	1,949	2.26%		
2000	1,906	6.66%		
1999	1,787			
1998				
1997	1,868			
1996				
1995				
1994				
1993				
1992				
1991				
1990				
1989				

Hourly Averages





2018 Calendar

January							February							March							April							
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	
1	2	3	4	5	6	7	5	6	7	8	9	10	11	5	6	7	8	9	10	11	30	31					1	
8	9	10	11	12	13	14	12	13	14	15	16	17	18	12	13	14	15	16	17	18	2	3	4	5	6	7	8	
15	16	17	18	19	20	21	19	20	21	22	23	24	25	19	20	21	22	23	24	25	9	10	11	12	13	14	15	
22	23	24	25	26	27	28	26	27	28					26	27	28	29	30	31	16	17	18	19	20	21	22		
29	30	31																			23	24	25	26	27	28	29	
May							June							July							August							
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	
	1	2	3	4	5	6					1	2	3	30	31					1				1	2	3	4	5
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28	29	30	31				25	26	27	28	29	30	23	24	25	26	27	28	29	27	28	29	30	31				
September							October							November							December							
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	
					1	2	1	2	3	4	5	6	7				1	2	3	4	31							
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	
24	25	26	27	28	29	30	29	30	31					26	27	28	29	30	24	25	26	27	28	29	30			

Days on which traffic data was collected.

Annual Volume Report

Displays AADT history with hourly, daily and weekly patterns by Stream in addition to annual data for AADT figures with 1 year, 5 year and 10 year growth rates.

Annual Average Daily Traffic (AADT)

Annual Average Daily Traffic (AADT) is the number of vehicles passing a point on a road in a 24 hour period, averaged over a calendar year.

AADT History

Displays the years when traffic data was collected at this count site.

Area

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North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

Avg Week Day

Average daily traffic volume during the week days, Monday to Friday.

Avg Weekend Day

Average daily traffic volume during the weekend, Saturday and Sunday.

Calendar

Days on which traffic data was collected are highlighted in green.

Gazettal Direction

The Gazettal Direction is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

- G Traffic flowing in Gazettal Direction
- A Traffic flowing against Gazettal Direction
- B The combined traffic flow in both Directions

Growth Percentage

Represents the increase or decrease in AADT, using a exponential fit over the previous 1, 5 or 10 year period.

Hour, Day & Week Averages

The amount of traffic on the road network will vary depending on the time of day, the day of the week and the week of the year. The ebb and flow of traffic travelling through a site over a period of time forms a pattern. The Hour, Day and Week Averages are then used in the calculation of AADT.

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazettal Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Site

The unique identifier and description of the physical location of a traffic counting device. Sites are located at a Through Distance along a Road Section.

Stream

The lane in which the traffic is travelling in. This report provides data for the combined flow of traffic in both directions.

Thru Dist or TDist

The distance from the beginning of the Road Section, in kilometres.

Type

There are two types of traffic counting sites, Permanent and Coverage. Permanent means the traffic counting device is in place 24/7. Coverage means the traffic counting device is in place for a specified period of time.

Year

Is the current year for the report. Where an AADT Year record is missing a traffic count has not been conducted, for that year.

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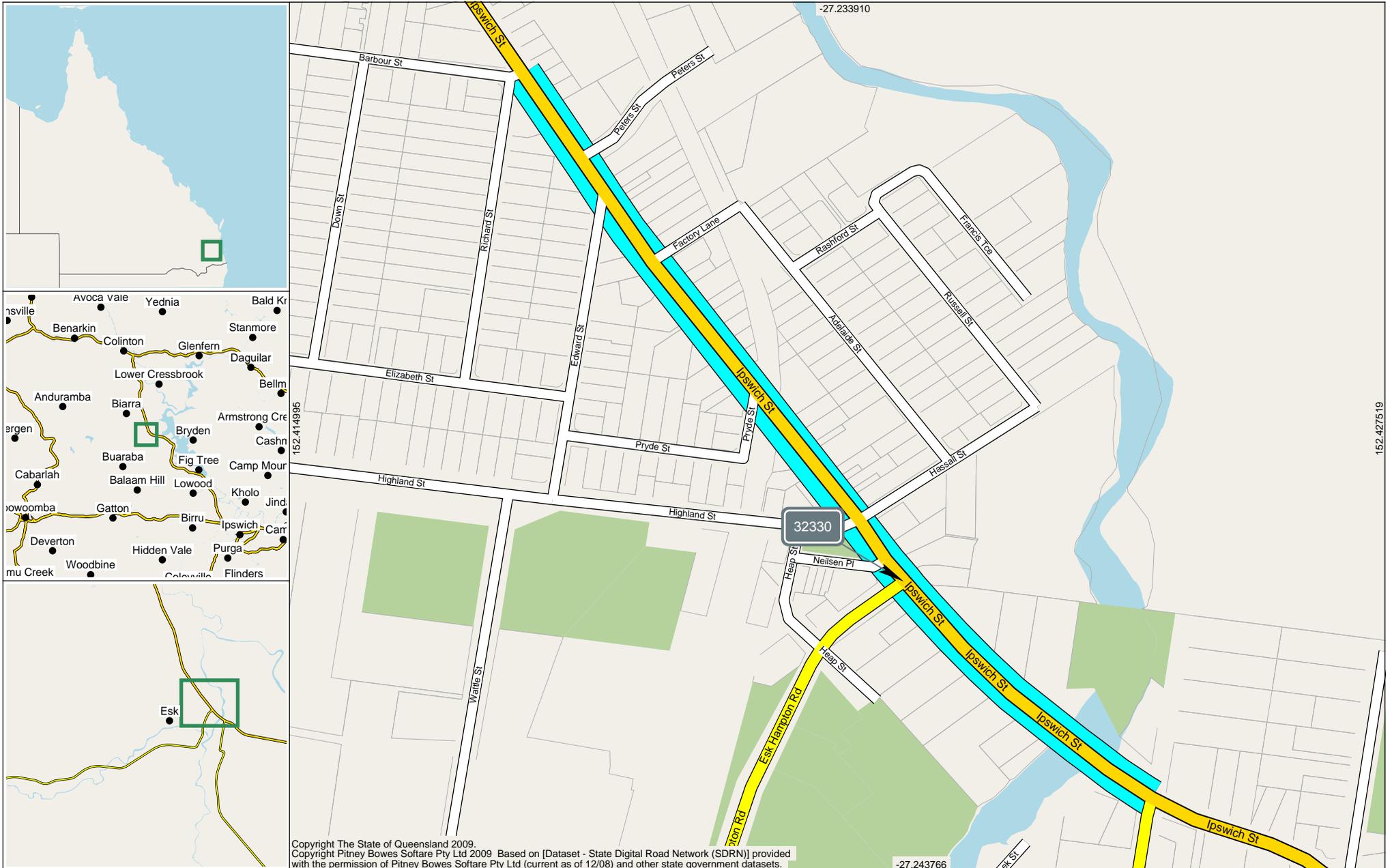
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AADT Segment Report

Area 407 - North Coast District
Road Segment from 53.860km to 55.030km

Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)
Segment Site 32330 Traffic Year 2018 Data Collection Year 2018

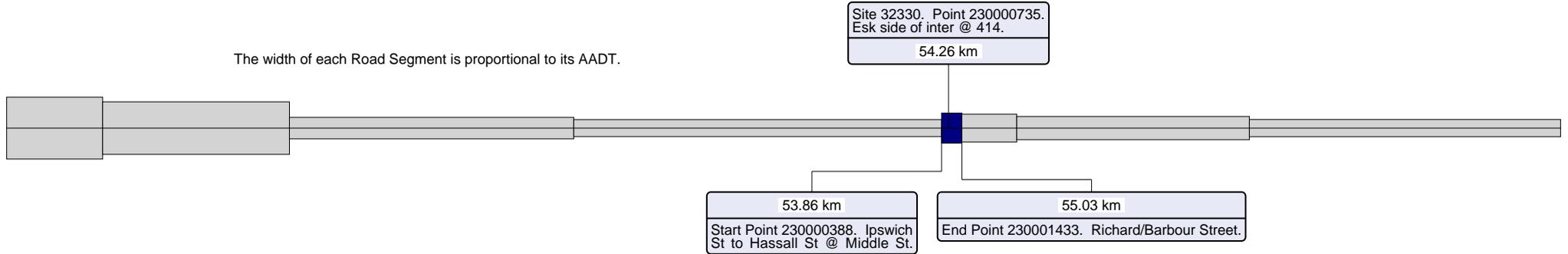


AADT Segment Report

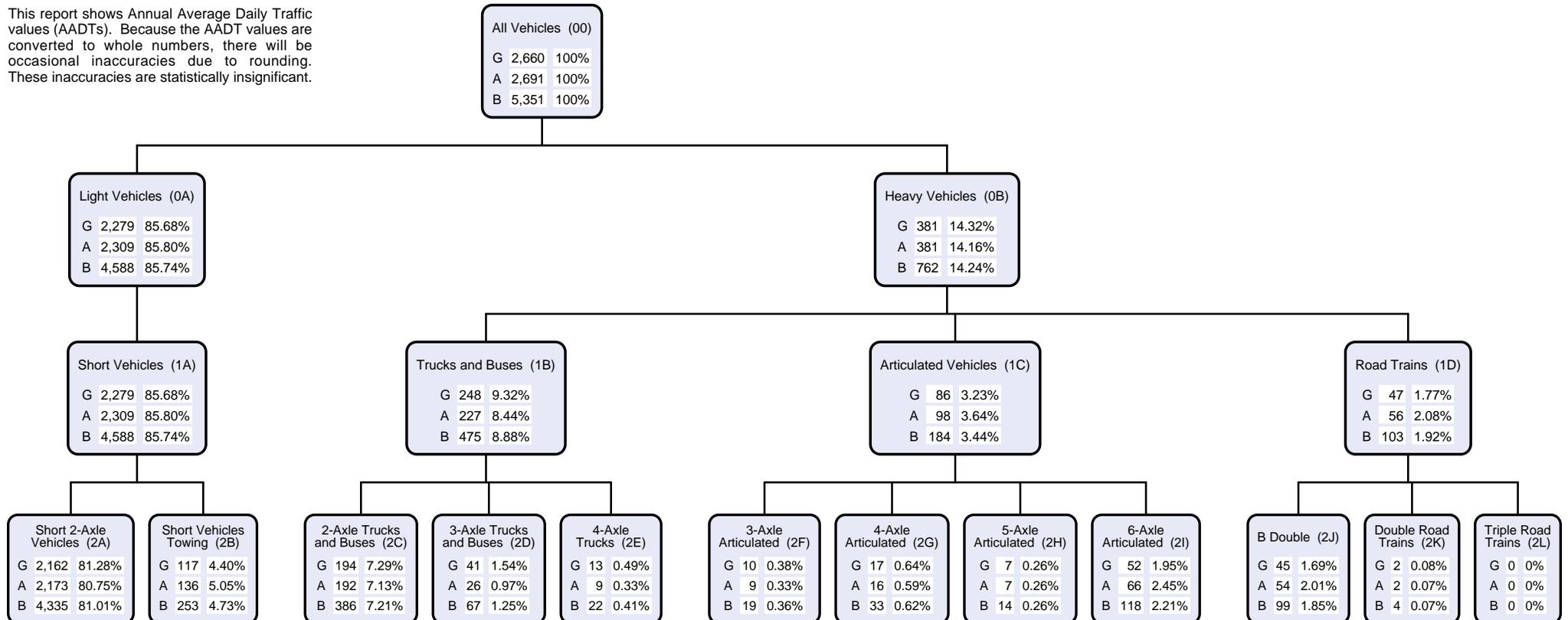
Area 407 - North Coast District
Road Segment from 53.860km to 55.030km

Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)
Segment Site 32330 Traffic Year 2018 Data Collection Year 2018

The width of each Road Segment is proportional to its AADT.



This report shows Annual Average Daily Traffic values (AADTs). Because the AADT values are converted to whole numbers, there will be occasional inaccuracies due to rounding. These inaccuracies are statistically insignificant.



AADT Segment Annual Volume Report

Provides summary data for the selected AADT Segment of a Road Section. Summary data is presented as both directional information and a combined bi-directional figure. The data is then broken down by Traffic Class, when available. The report also includes maps displaying the location of both the AADT Segment and the traffic count site.

Annual Average Daily Traffic (AADT)

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AADT Segments

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North Coast District	407
North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

AADT Values

AADT values are displayed by direction of travel as:

- G Traffic flow in gazettal direction
- A Traffic flow against gazettal direction
- B Traffic flow in both directions

Data Collection Year

Is the most recent year that data was collected at the data collection site.

Please Note:

Due to location and/or departmental policy, some sites are not counted every year.

Gazettal Direction

Is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

Maps

Display the selected location from a range of viewing levels, the start and end position details for the AADT Segment and the location of the traffic count site.

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazettal Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Segment Site

Is the unique identifier for the traffic count site representing the traffic flow within the AADT Segment.

Site

The physical location of a traffic counting device. Sites are located at a specified Through Distance along a Road Section.

Site Description

The description of the physical location of the traffic counting device.

Start and End Point

The unique identifier for the Through Distance along a Road Section.

Vehicle Class

Traffic is categorised as per the Austroads Vehicle Classification scheme. Traffic classes are in the following hierarchical format:

Volume or All Vehicles

00 = 0A + 0B

Light Vehicles

0A = 1A

1A = 2A + 2B

Heavy Vehicles

0B = 1B + 1C + 1D

1B = 2C + 2D + 2E

1C = 2F + 2G + 2H + 2I

1D = 2J + 2K + 2L

The following classes are the categories for which data can be captured:

Volume

00 All vehicles

2-Bin

0A Light vehicles

0B Heavy vehicles

4-Bin

1A Short vehicles

1B Truck or bus

1C Articulated vehicles

1D Road train

12-Bin

2A Short 2 axle vehicles

2B Short vehicles towing

2C 2 axle truck or bus

2D 3 axle truck or bus

2E 4 axle truck

2F 3 axle articulated vehicle

2G 4 axle articulated vehicle

2H 5 axle articulated vehicle

2I 6 axle articulated vehicle

2J B double

2K Double road train

2L Triple road train

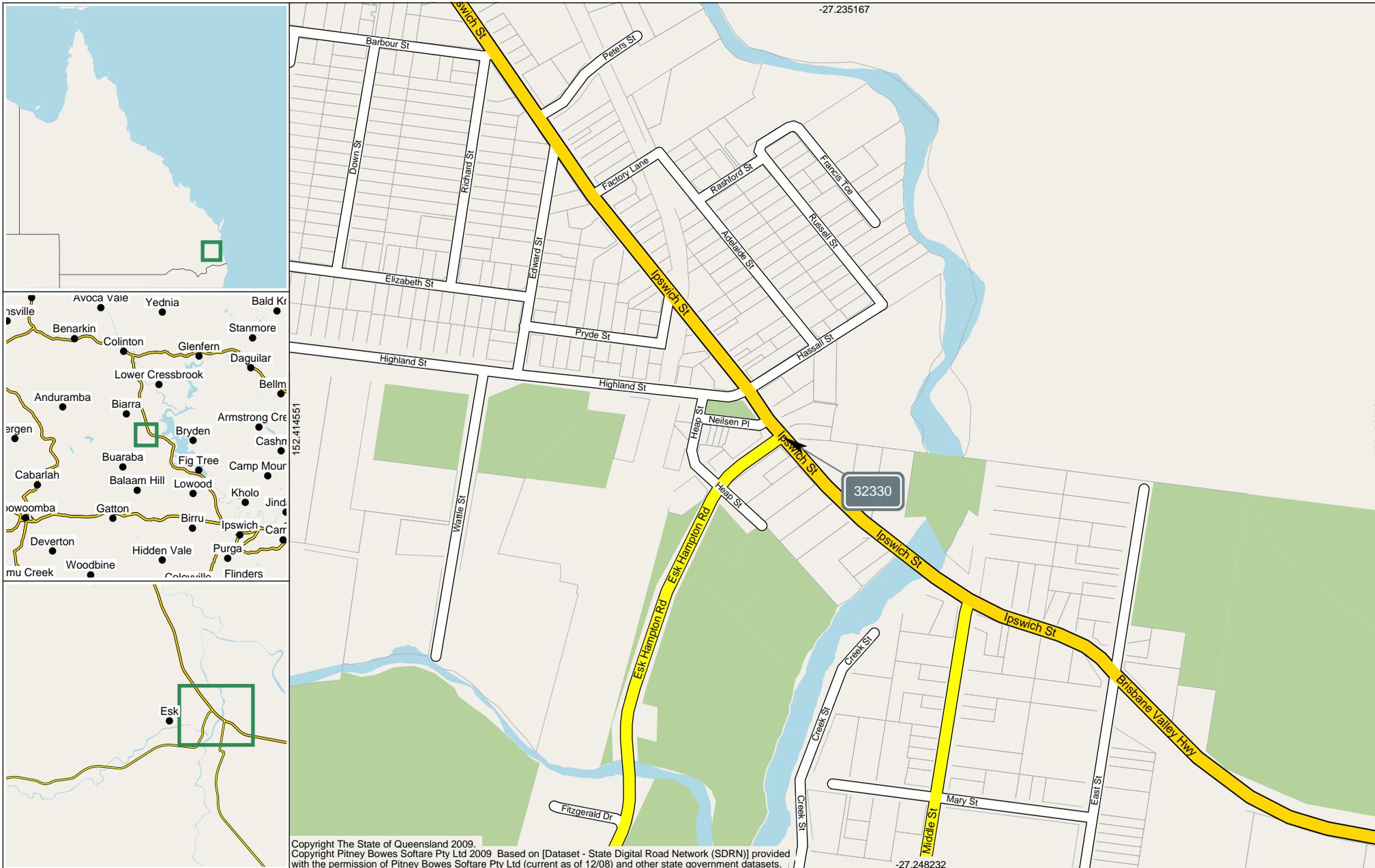
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Area 407 - North Coast District
 Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)
 Site 32330 - 42A - 190m South of Middle Street
 Thru Dist 54.26
 Type C - Coverage
 Stream TB - Bi-directional traffic flow

Year 2018
 AADT 5,351
 Avg Week Day 5,297
 Avg Weekend Day 5,243
 Growth last Year 4.39%
 Growth last 5 Yrs
 Growth last 10 Yrs

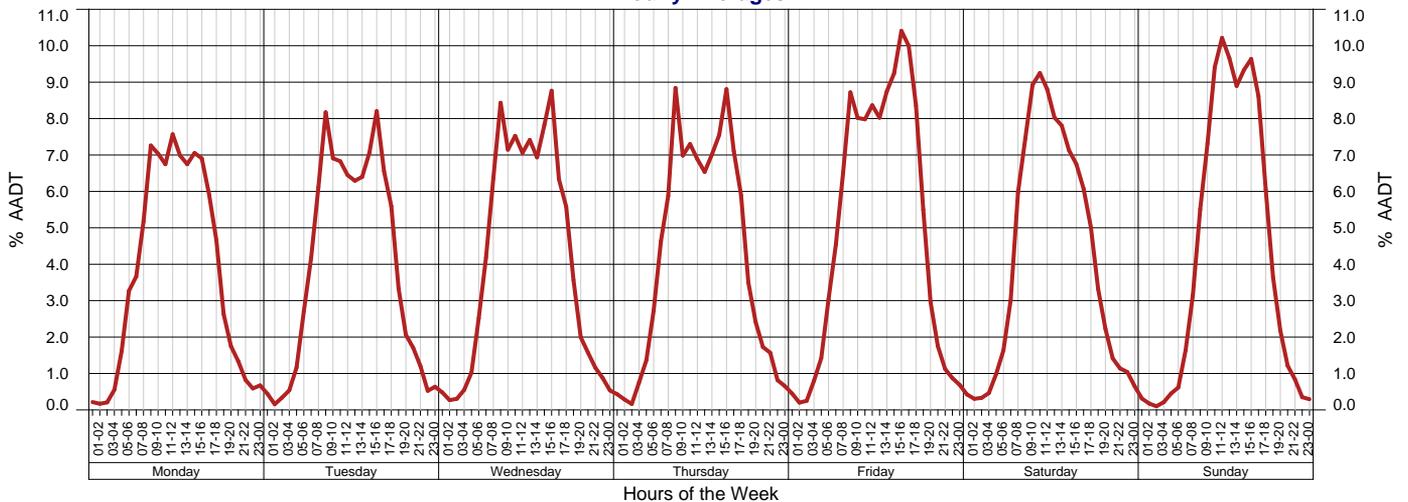
AADT History

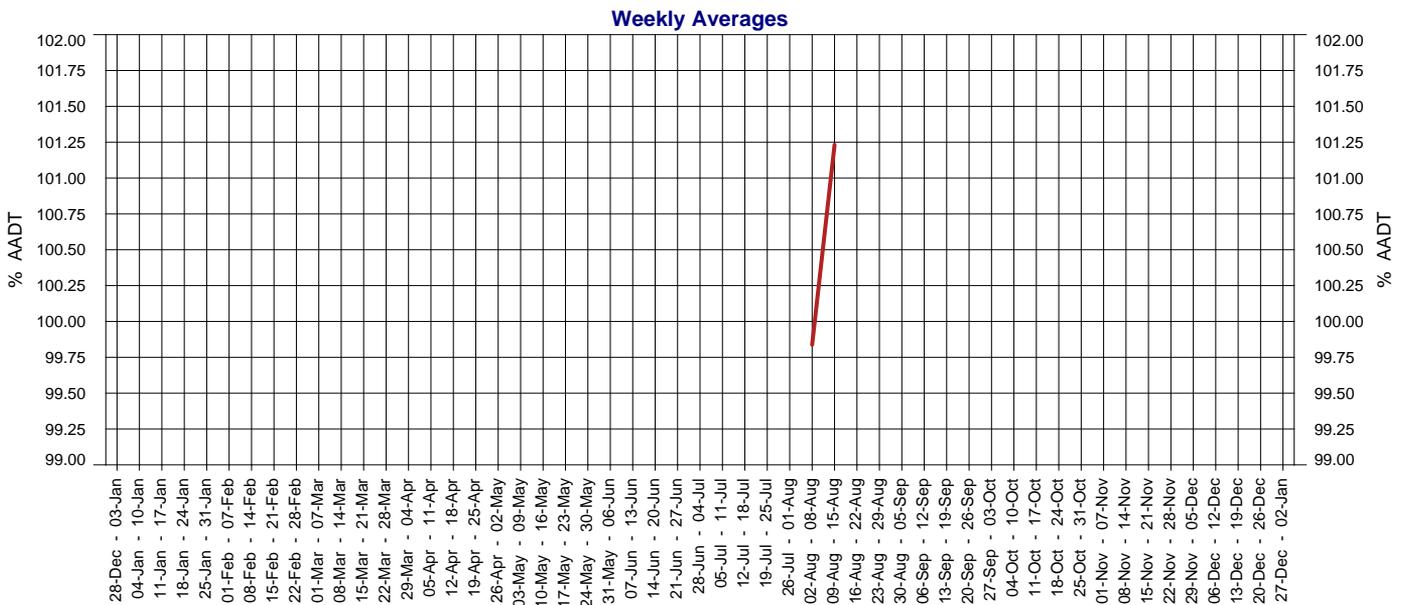
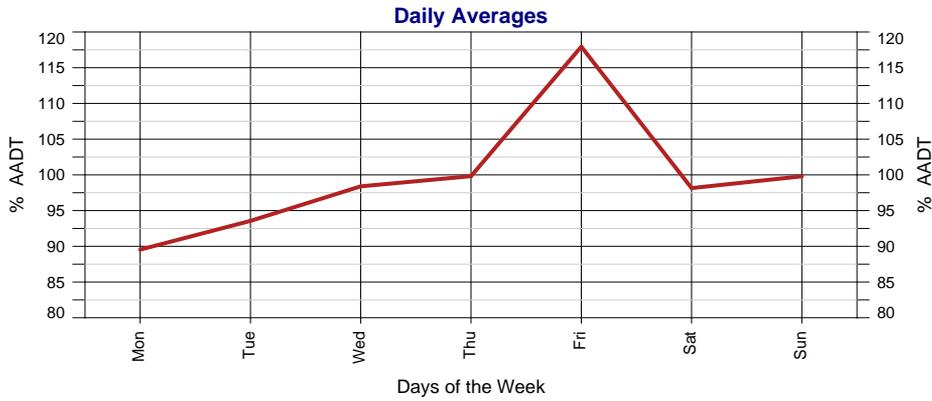


Year	AADT	1-Year Growth	5-Year Growth	10-Year Growth
2018	5,351	4.39%		
2017	5,126		1.34%	
2016				
2015	4,782			
2014				
2013				
2012	4,878	-8.12%		2.51%
2011	5,309			3.57%
2010				
2009				
2008				
2007				
2006				
2005				
2004				

Year	AADT	1-Year Growth	5-Year Growth	10-Year Growth
2003	3,760	-3.49%		
2002	3,896	-0.41%		
2001	3,912	0.67%		
2000	3,886			
1999				
1998				
1997				
1996				
1995				
1994				
1993				
1992				
1991				
1990				
1989				

Hourly Averages





2018 Calendar

January							February							March							April							
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	
1	2	3	4	5	6	7	5	6	7	8	9	10	11	5	6	7	8	9	10	11	30	31					1	
8	9	10	11	12	13	14	12	13	14	15	16	17	18	12	13	14	15	16	17	18	2	3	4	5	6	7	8	
15	16	17	18	19	20	21	19	20	21	22	23	24	25	19	20	21	22	23	24	25	9	10	11	12	13	14	15	
22	23	24	25	26	27	28	26	27	28					26	27	28	29	30	31	16	17	18	19	20	21	22		
29	30	31																			23	24	25	26	27	28	29	
May							June							July							August							
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	
	1	2	3	4	5	6					1	2	3	30	31					1				1	2	3	4	5
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19	
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	
28	29	30	31				25	26	27	28	29	30	23	24	25	26	27	28	29	27	28	29	30	31				
September							October							November							December							
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	
					1	2	1	2	3	4	5	6	7				1	2	3	4	31							
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	
24	25	26	27	28	29	30	29	30	31					26	27	28	29	30	24	25	26	27	28	29	30			

Days on which traffic data was collected.

Annual Volume Report

Displays AADT history with hourly, daily and weekly patterns by Stream in addition to annual data for AADT figures with 1 year, 5 year and 10 year growth rates.

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AADT History

Displays the years when traffic data was collected at this count site.

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North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

Avg Week Day

Average daily traffic volume during the week days, Monday to Friday.

Avg Weekend Day

Average daily traffic volume during the weekend, Saturday and Sunday.

Calendar

Days on which traffic data was collected are highlighted in green.

Gazettal Direction

The Gazettal Direction is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

- G Traffic flowing in Gazettal Direction
- A Traffic flowing against Gazettal Direction
- B The combined traffic flow in both Directions

Growth Percentage

Represents the increase or decrease in AADT, using a exponential fit over the previous 1, 5 or 10 year period.

Hour, Day & Week Averages

The amount of traffic on the road network will vary depending on the time of day, the day of the week and the week of the year. The ebb and flow of traffic travelling through a site over a period of time forms a pattern. The Hour, Day and Week Averages are then used in the calculation of AADT.

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The unique identifier and description of the physical location of a traffic counting device. Sites are located at a Through Distance along a Road Section.

Stream

The lane in which the traffic is travelling in. This report provides data for the combined flow of traffic in both directions.

Thru Dist or TDist

The distance from the beginning of the Road Section, in kilometres.

Type

There are two types of traffic counting sites, Permanent and Coverage. Permanent means the traffic counting device is in place 24/7. Coverage means the traffic counting device is in place for a specified period of time.

Year

Is the current year for the report. Where an AADT Year record is missing a traffic count has not been conducted, for that year.

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AADT Segment Report

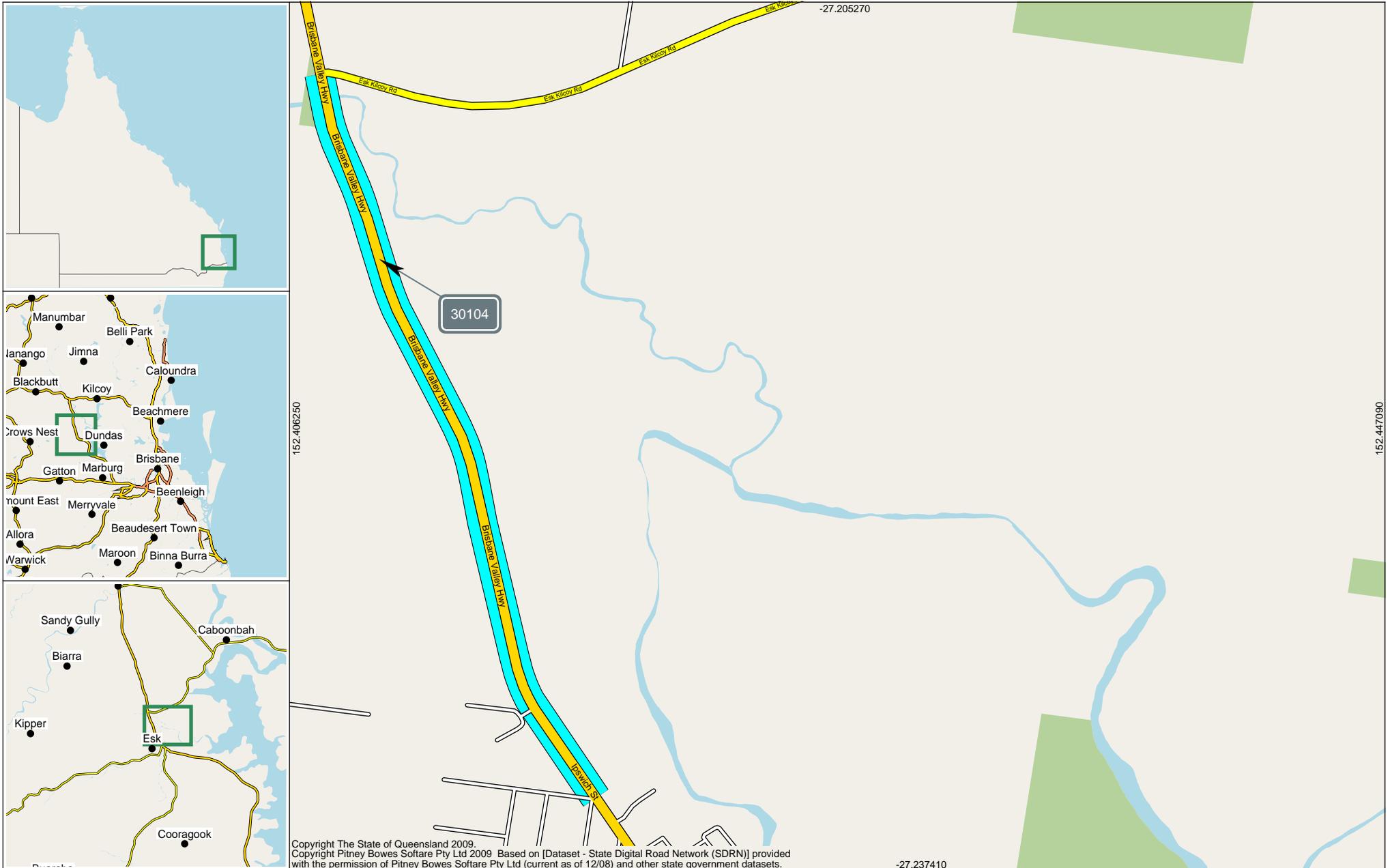
Area 407 - North Coast District
Road Segment from 55.030km to 58.190km

Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)

Segment Site 30104

Traffic Year 2018

Data Collection Year 2018

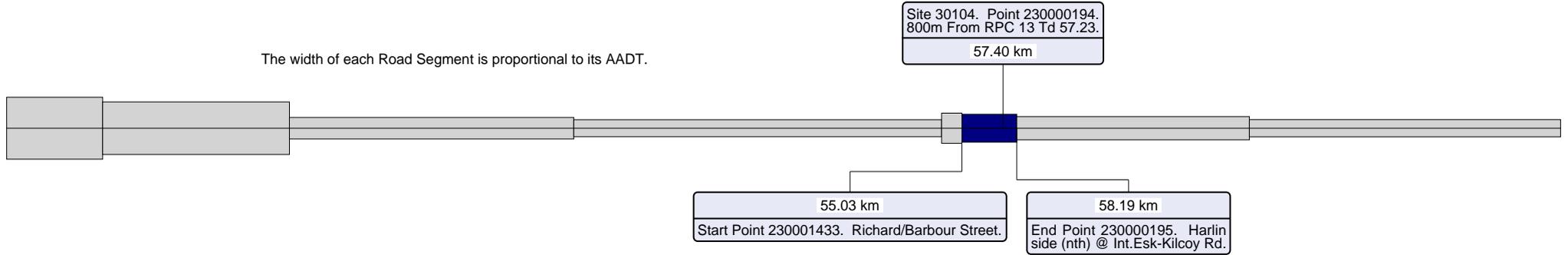


AADT Segment Report

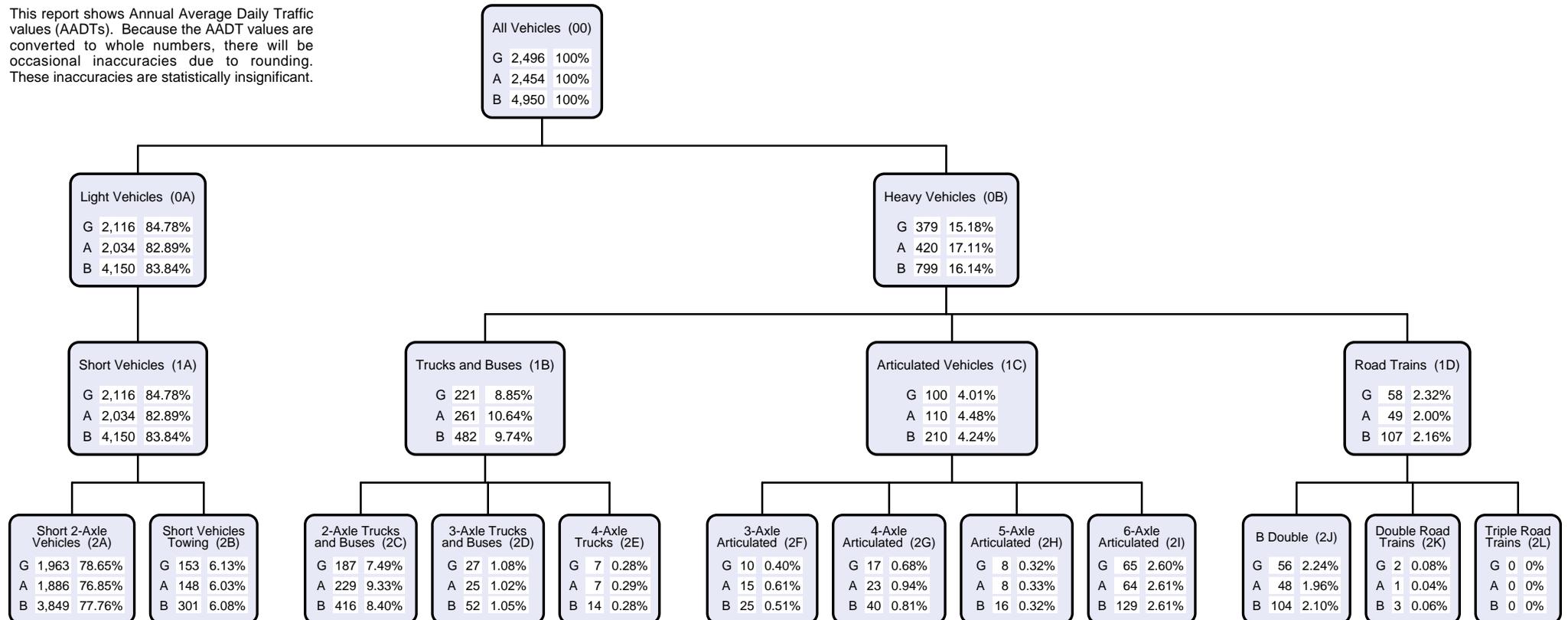
Area 407 - North Coast District
Road Segment from 55.030km to 58.190km

Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)
Segment Site 30104 Traffic Year 2018 Data Collection Year 2018

The width of each Road Segment is proportional to its AADT.



This report shows Annual Average Daily Traffic values (AADTs). Because the AADT values are converted to whole numbers, there will be occasional inaccuracies due to rounding. These inaccuracies are statistically insignificant.



AADT Segment Annual Volume Report

Provides summary data for the selected AADT Segment of a Road Section. Summary data is presented as both directional information and a combined bi-directional figure. The data is then broken down by Traffic Class, when available. The report also includes maps displaying the location of both the AADT Segment and the traffic count site.

Annual Average Daily Traffic (AADT)

Annual Average Daily Traffic (AADT) is the number of vehicles passing a point on a road in a 24 hour period, averaged over a calendar year.

AADT Segments

The State declared road network is broken into Road Sections and then further broken down into AADT Segments. An AADT Segment is a sub-section of the declared road network where traffic volume is similar along the entire AADT Segment.

Area

For administration purposes the Department of Transport and Main Roads has divided Queensland into 12 Districts. The Area field in TSDM reports displays the District Name and Number.

District Name	District
Central West District	401
Darling Downs District	402
Far North District	403
Fitzroy District	404
Mackay/Whitsunday District	405
Metropolitan District	406
North Coast District	407
North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

AADT Values

AADT values are displayed by direction of travel as:

- G Traffic flow in gazettal direction
- A Traffic flow against gazettal direction
- B Traffic flow in both directions

Data Collection Year

Is the most recent year that data was collected at the data collection site.

Please Note:

Due to location and/or departmental policy, some sites are not counted every year.

Gazettal Direction

Is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

Maps

Display the selected location from a range of viewing levels, the start and end position details for the AADT Segment and the location of the traffic count site.

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazettal Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Segment Site

Is the unique identifier for the traffic count site representing the traffic flow within the AADT Segment.

Site

The physical location of a traffic counting device. Sites are located at a specified Through Distance along a Road Section.

Site Description

The description of the physical location of the traffic counting device.

Start and End Point

The unique identifier for the Through Distance along a Road Section.

Vehicle Class

Traffic is categorised as per the Austroads Vehicle Classification scheme. Traffic classes are in the following hierarchical format:

Volume or All Vehicles

00 = 0A + 0B

Light Vehicles

0A = 1A

1A = 2A + 2B

Heavy Vehicles

0B = 1B + 1C + 1D

1B = 2C + 2D + 2E

1C = 2F + 2G + 2H + 2I

1D = 2J + 2K + 2L

The following classes are the categories for which data can be captured:

Volume

00 All vehicles

2-Bin

0A Light vehicles

0B Heavy vehicles

4-Bin

1A Short vehicles

1B Truck or bus

1C Articulated vehicles

1D Road train

12-Bin

2A Short 2 axle vehicles

2B Short vehicles towing

2C 2 axle truck or bus

2D 3 axle truck or bus

2E 4 axle truck

2F 3 axle articulated vehicle

2G 4 axle articulated vehicle

2H 5 axle articulated vehicle

2I 6 axle articulated vehicle

2J B double

2K Double road train

2L Triple road train

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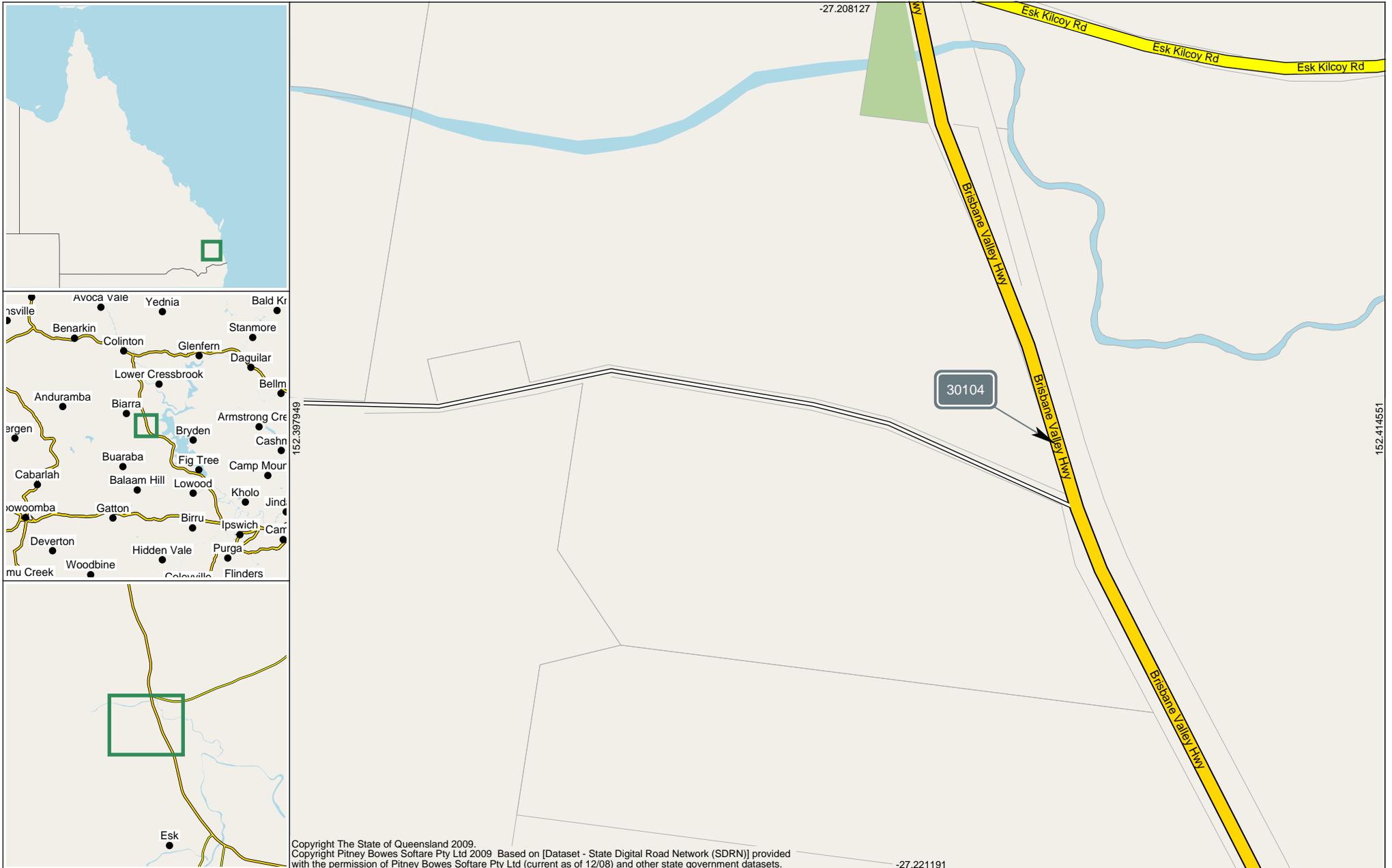
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Annual Volume Report

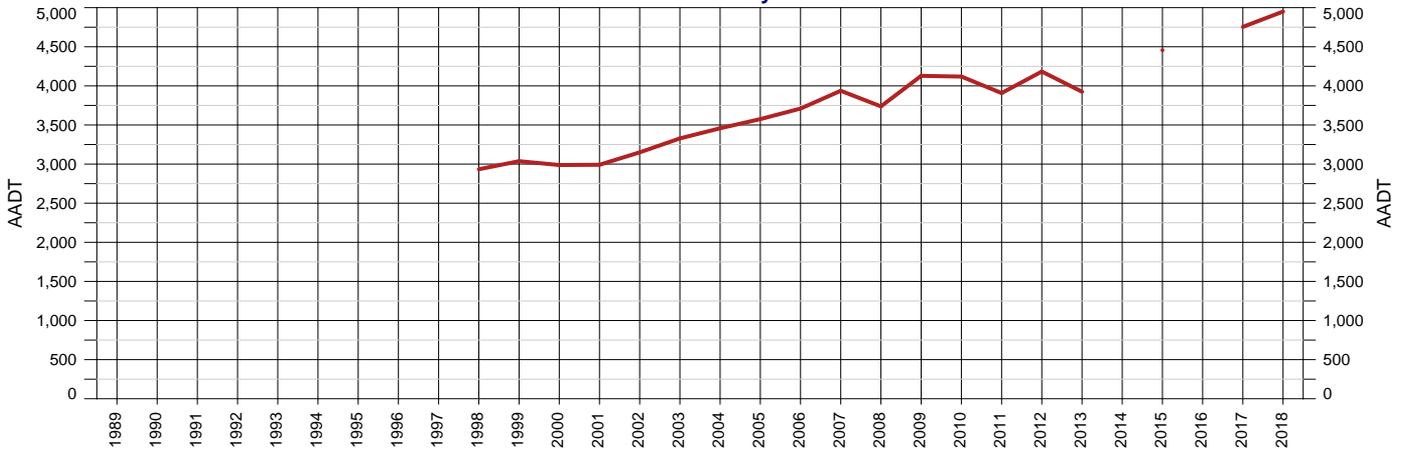
Area 407 - North Coast District Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)
Site 30104 - 42A - 240m South of Esk - Crows Nest Rd TDist 57.400km Speed Limit 100



Area 407 - North Coast District
 Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)
 Site 30104 - 42A - 240m South of Esk - Crows Nest Rd
 Thru Dist 57.4
 Type C - Coverage
 Stream TB - Bi-directional traffic flow

Year 2018
 AADT 4,950
 Avg Week Day 4,653
 Avg Weekend Day 5,197
 Growth last Year 4.12%
 Growth last 5 Yrs 4.43%
 Growth last 10 Yrs 2.80%

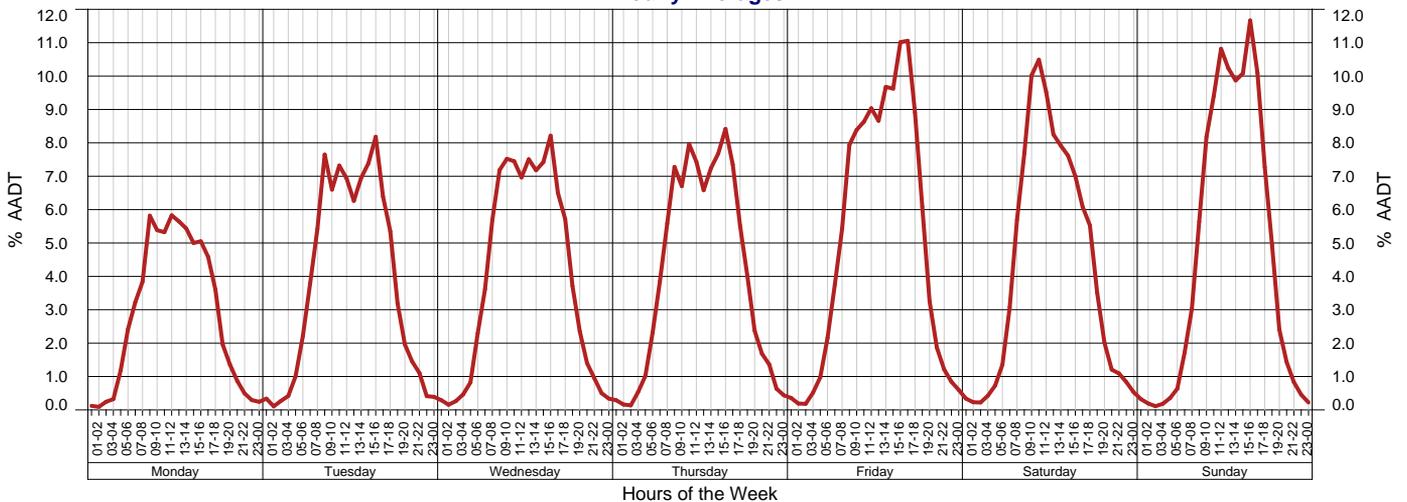
AADT History

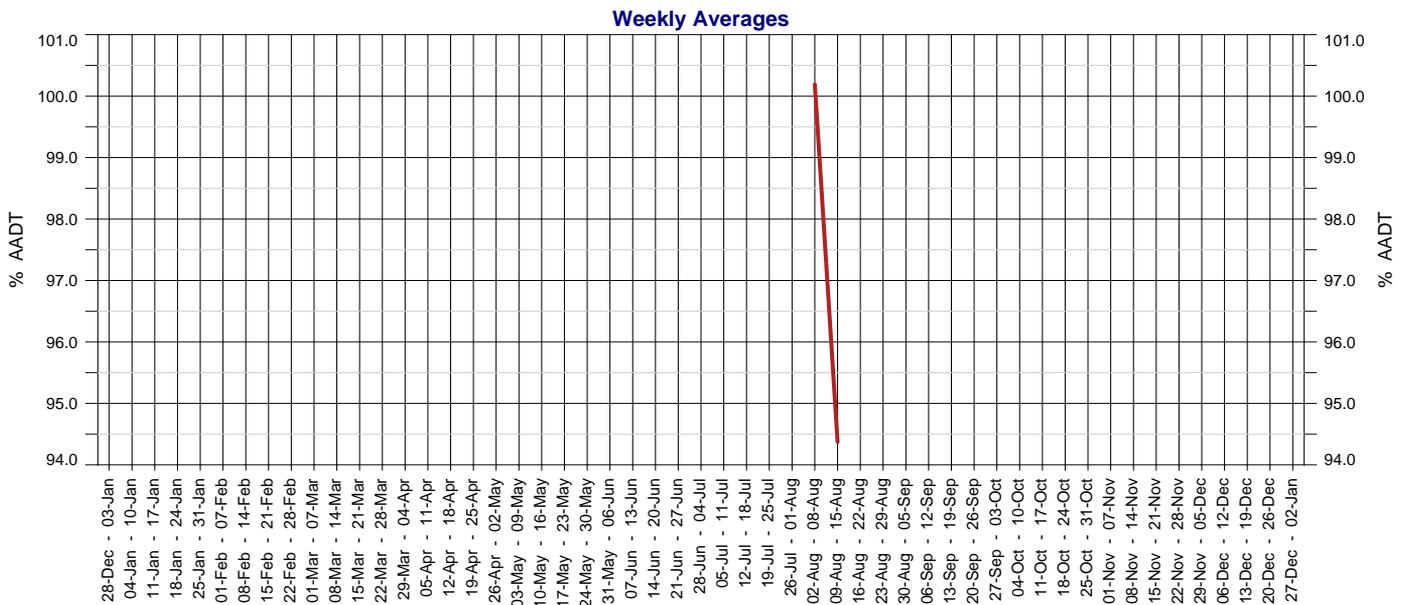
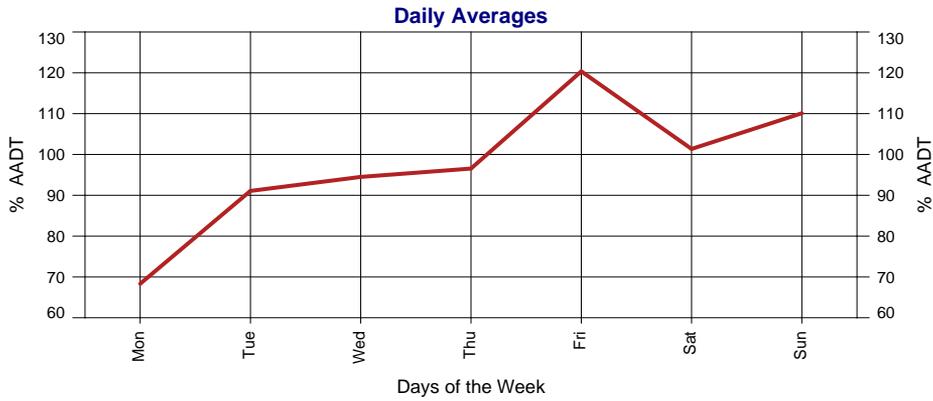


Year	AADT	1-Year Growth	5-Year Growth	10-Year Growth
2018	4,950	4.12%	4.43%	2.80%
2017	4,754		3.47%	2.40%
2016				
2015	4,456		2.55%	2.08%
2014				
2013	3,925	-6.17%	-0.29%	0.98%
2012	4,183	7.04%	1.63%	2.40%
2011	3,908	-5.12%	0.37%	1.97%
2010	4,119	-0.22%	2.68%	3.23%
2009	4,128	10.43%	3.66%	3.63%
2008	3,738	-5.05%	1.81%	2.54%
2007	3,937	6.12%	4.51%	
2006	3,710	3.78%	4.15%	
2005	3,575	3.38%	4.02%	
2004	3,458	3.91%	3.50%	

Year	AADT	1-Year Growth	5-Year Growth	10-Year Growth
2003	3,328	5.65%	2.93%	
2002	3,150	5.32%		
2001	2,991	0.10%		
2000	2,988	-1.61%		
1999	3,037	3.51%		
1998	2,934			
1997				
1996				
1995				
1994				
1993				
1992				
1991				
1990				
1989				

Hourly Averages





2018 Calendar

January							February							March							April						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7	5	6	7	8	9	10	11	5	6	7	8	9	10	11	30	31					1
8	9	10	11	12	13	14	12	13	14	15	16	17	18	12	13	14	15	16	17	18	2	3	4	5	6	7	8
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22	23	24	25	26	27	28	26	27	28					26	27	28	29	30	31	16	17	18	19	20	21	22	
29	30	31																			23	24	25	26	27	28	29
May							June							July							August						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
	1	2	3	4	5	6				1	2	3		30	31					1			1	2	3	4	5
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28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30	31		
September							October							November							December						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
					1	2	1	2	3	4	5	6	7				1	2	3	4	31						
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23
24	25	26	27	28	29	30	29	30	31					26	27	28	29	30			24	25	26	27	28	29	30

Days on which traffic data was collected.

Annual Volume Report

Displays AADT history with hourly, daily and weekly patterns by Stream in addition to annual data for AADT figures with 1 year, 5 year and 10 year growth rates.

Annual Average Daily Traffic (AADT)

Annual Average Daily Traffic (AADT) is the number of vehicles passing a point on a road in a 24 hour period, averaged over a calendar year.

AADT History

Displays the years when traffic data was collected at this count site.

Area

For administration purposes the Department of Transport and Main Roads has divided Queensland into 12 Districts. The Area field in TSDM reports displays the District Name and Number.

District Name	District
Central West District	401
Darling Downs District	402
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North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

Avg Week Day

Average daily traffic volume during the week days, Monday to Friday.

Avg Weekend Day

Average daily traffic volume during the weekend, Saturday and Sunday.

Calendar

Days on which traffic data was collected are highlighted in green.

Gazettal Direction

The Gazettal Direction is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

- G Traffic flowing in Gazettal Direction
- A Traffic flowing against Gazettal Direction
- B The combined traffic flow in both Directions

Growth Percentage

Represents the increase or decrease in AADT, using a exponential fit over the previous 1, 5 or 10 year period.

Hour, Day & Week Averages

The amount of traffic on the road network will vary depending on the time of day, the day of the week and the week of the year. The ebb and flow of traffic travelling through a site over a period of time forms a pattern. The Hour, Day and Week Averages are then used in the calculation of AADT.

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazettal Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Site

The unique identifier and description of the physical location of a traffic counting device. Sites are located at a Through Distance along a Road Section.

Stream

The lane in which the traffic is travelling in. This report provides data for the combined flow of traffic in both directions.

Thru Dist or TDist

The distance from the beginning of the Road Section, in kilometres.

Type

There are two types of traffic counting sites, Permanent and Coverage. Permanent means the traffic counting device is in place 24/7. Coverage means the traffic counting device is in place for a specified period of time.

Year

Is the current year for the report. Where an AADT Year record is missing a traffic count has not been conducted, for that year.

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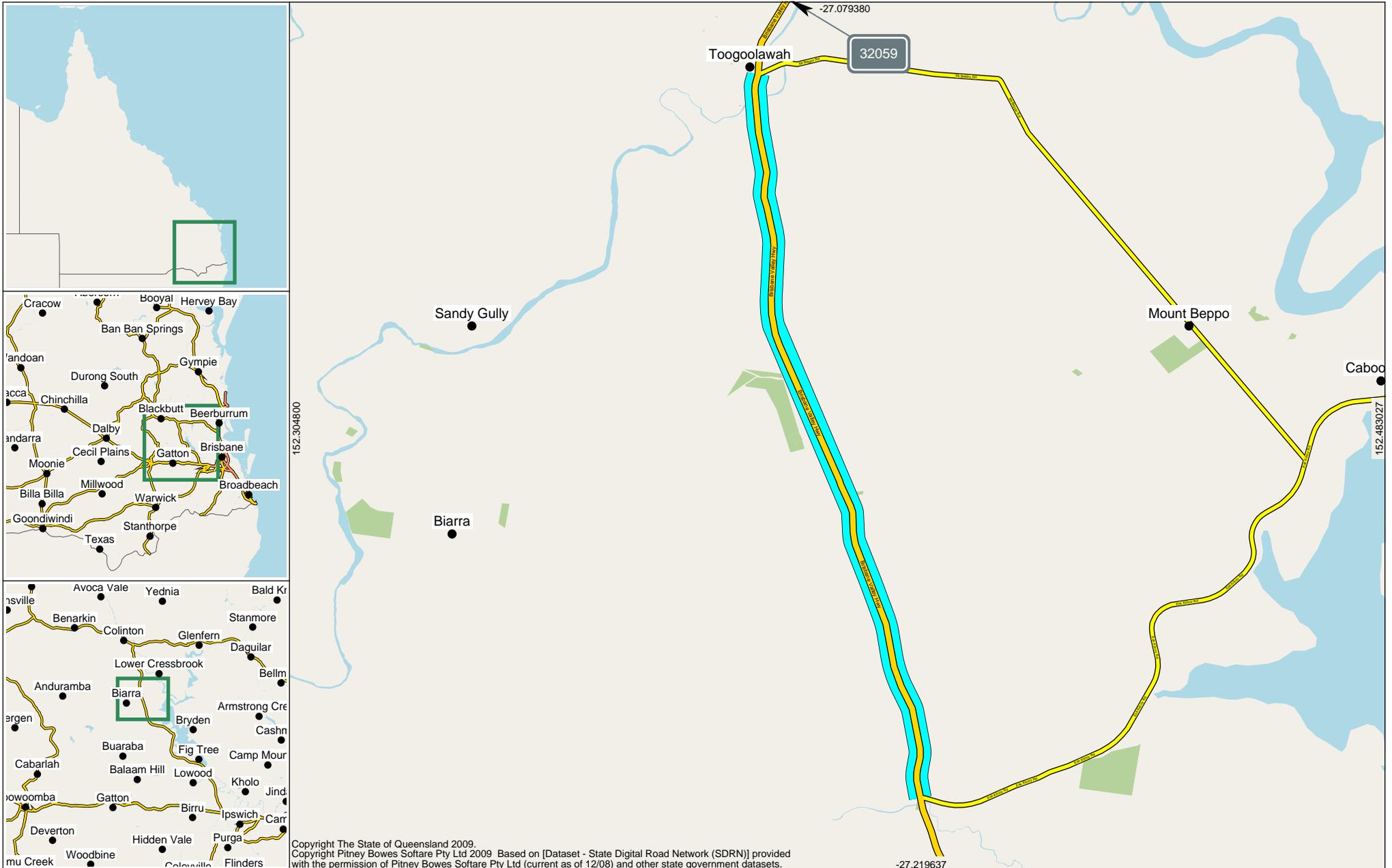
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AADT Segment Report

Area 407 - North Coast District
Road Segment from 58.190km to 71.590km

Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)
Segment Site 32059 Traffic Year 2018 Data Collection Year 2018



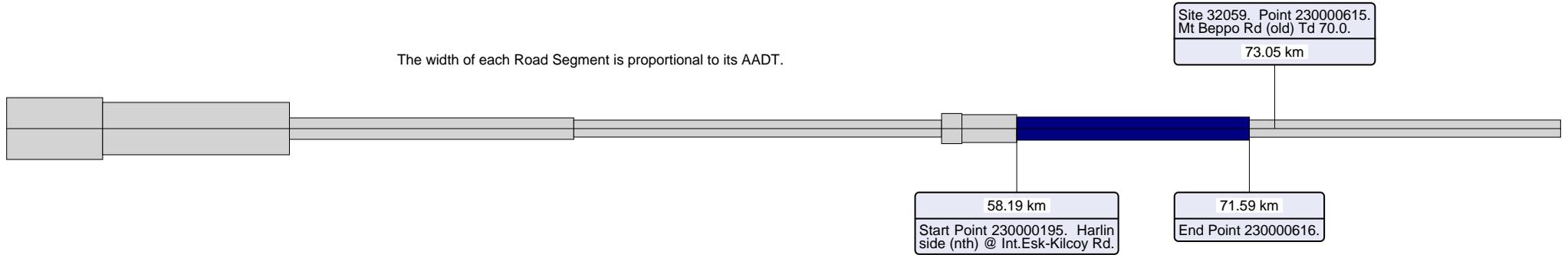
AADT Segment Report

Area 407 - North Coast District
Road Segment from 58.190km to 71.590km

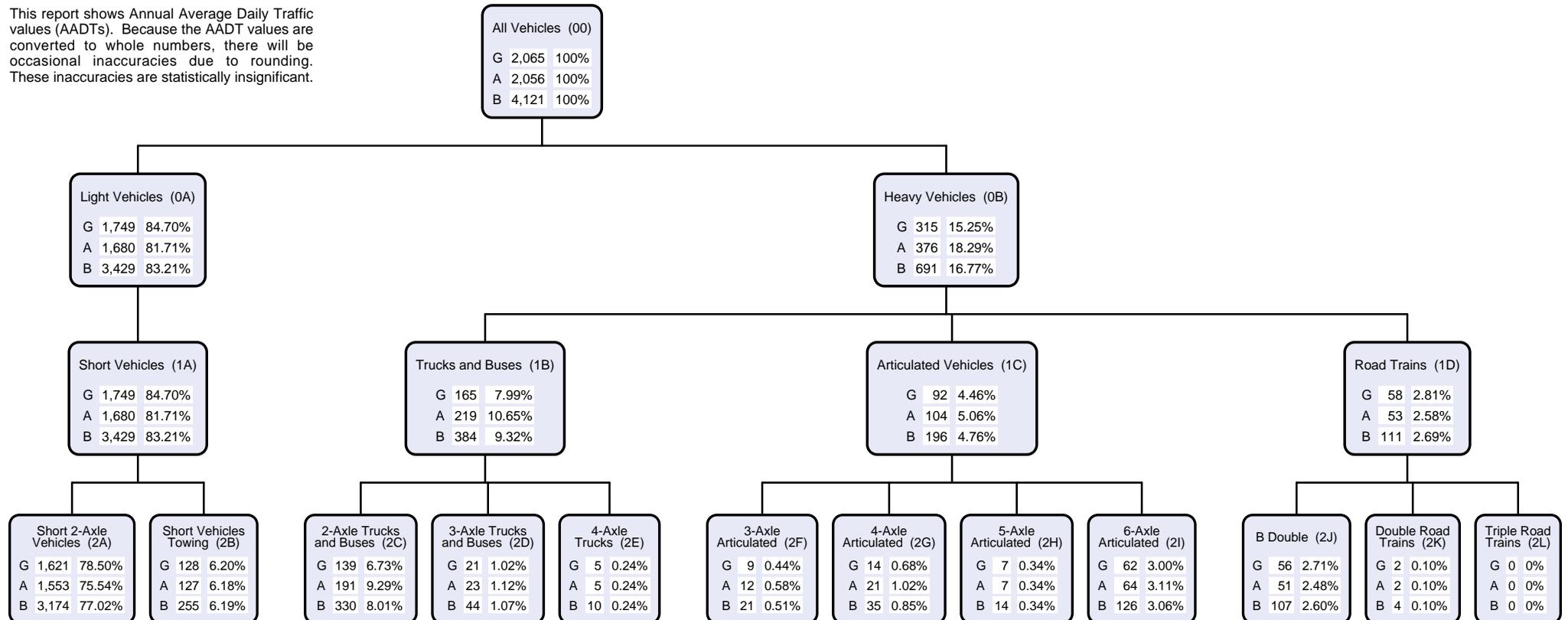
Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)
Segment Site 32059 Traffic Year 2018

Data Collection Year 2018

The width of each Road Segment is proportional to its AADT.



This report shows Annual Average Daily Traffic values (AADTs). Because the AADT values are converted to whole numbers, there will be occasional inaccuracies due to rounding. These inaccuracies are statistically insignificant.



AADT Segment Annual Volume Report

Provides summary data for the selected AADT Segment of a Road Section. Summary data is presented as both directional information and a combined bi-directional figure. The data is then broken down by Traffic Class, when available. The report also includes maps displaying the location of both the AADT Segment and the traffic count site.

Annual Average Daily Traffic (AADT)

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Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

AADT Values

AADT values are displayed by direction of travel as:

- G Traffic flow in gazettal direction
- A Traffic flow against gazettal direction
- B Traffic flow in both directions

Data Collection Year

Is the most recent year that data was collected at the data collection site.

Please Note:

Due to location and/or departmental policy, some sites are not counted every year.

Gazettal Direction

Is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

Maps

Display the selected location from a range of viewing levels, the start and end position details for the AADT Segment and the location of the traffic count site.

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazettal Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Segment Site

Is the unique identifier for the traffic count site representing the traffic flow within the AADT Segment.

Site

The physical location of a traffic counting device. Sites are located at a specified Through Distance along a Road Section.

Site Description

The description of the physical location of the traffic counting device.

Start and End Point

The unique identifier for the Through Distance along a Road Section.

Vehicle Class

Traffic is categorised as per the Austroads Vehicle Classification scheme. Traffic classes are in the following hierarchical format:

Volume or All Vehicles

00 = 0A + 0B

Light Vehicles

0A = 1A

1A = 2A + 2B

Heavy Vehicles

0B = 1B + 1C + 1D

1B = 2C + 2D + 2E

1C = 2F + 2G + 2H + 2I

1D = 2J + 2K + 2L

The following classes are the categories for which data can be captured:

Volume

00 All vehicles

2-Bin

0A Light vehicles

0B Heavy vehicles

4-Bin

1A Short vehicles

1B Truck or bus

1C Articulated vehicles

1D Road train

12-Bin

2A Short 2 axle vehicles

2B Short vehicles towing

2C 2 axle truck or bus

2D 3 axle truck or bus

2E 4 axle truck

2F 3 axle articulated vehicle

2G 4 axle articulated vehicle

2H 5 axle articulated vehicle

2I 6 axle articulated vehicle

2J B double

2K Double road train

2L Triple road train

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Annual Volume Report

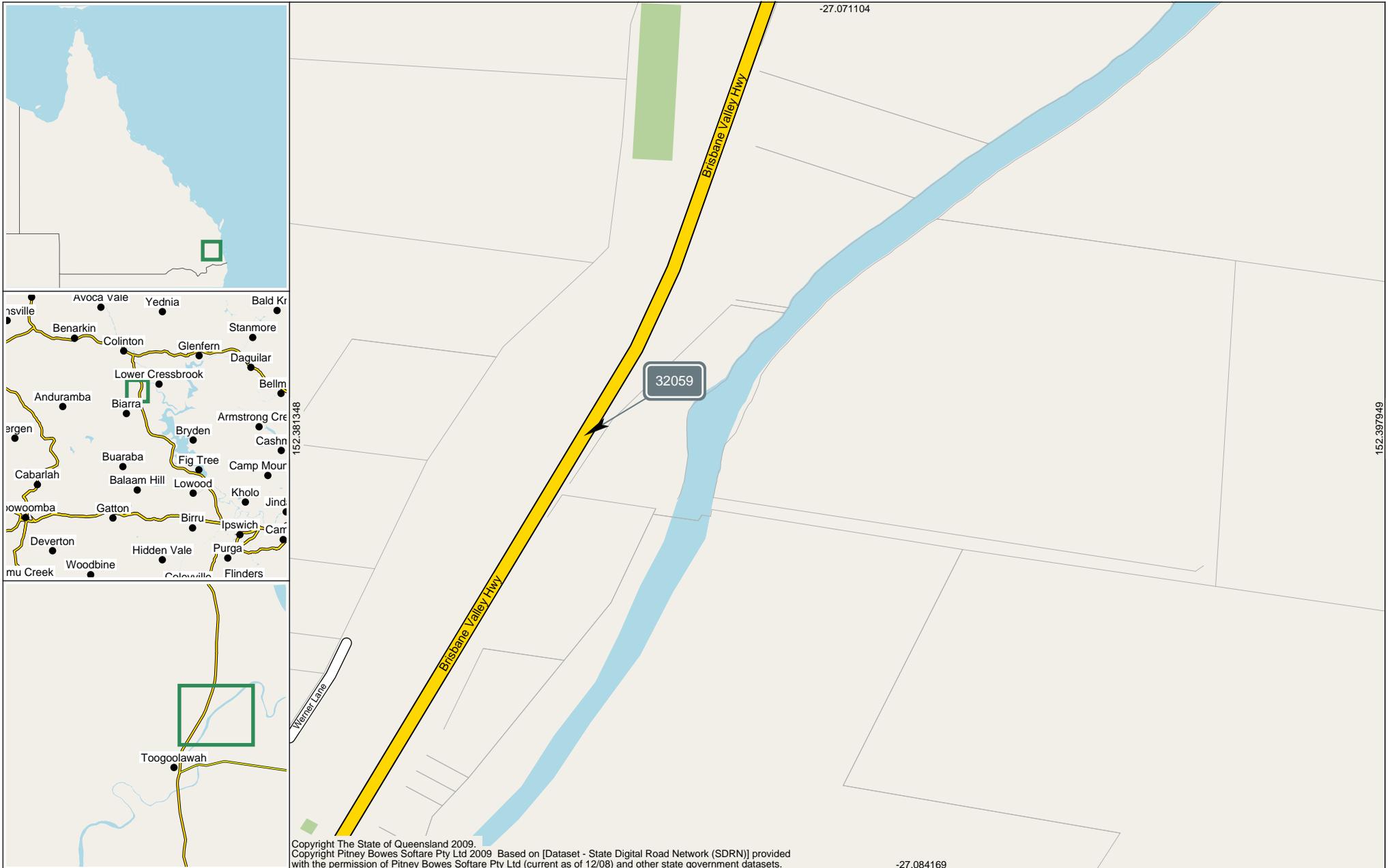
Area 407 - North Coast District

Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)

Site 32059 - 42A - 270m South of Masters Lane

TDist 73.050km

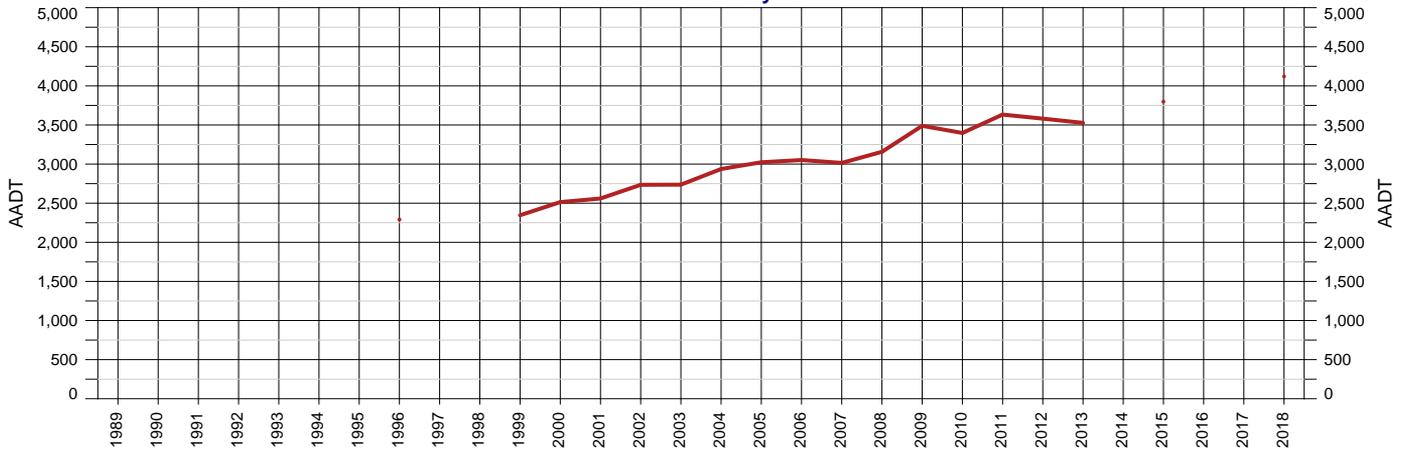
Speed Limit 100



Area 407 - North Coast District
 Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)
 Site 32059 - 42A - 270m South of Masters Lane
 Thru Dist 73.05
 Type C - Coverage
 Stream TB - Bi-directional traffic flow

Year 2018
 AADT 4,121
 Avg Week Day 4,079
 Avg Weekend Day 4,327
 Growth last Year
 Growth last 5 Yrs 3.05%
 Growth last 10 Yrs 2.35%

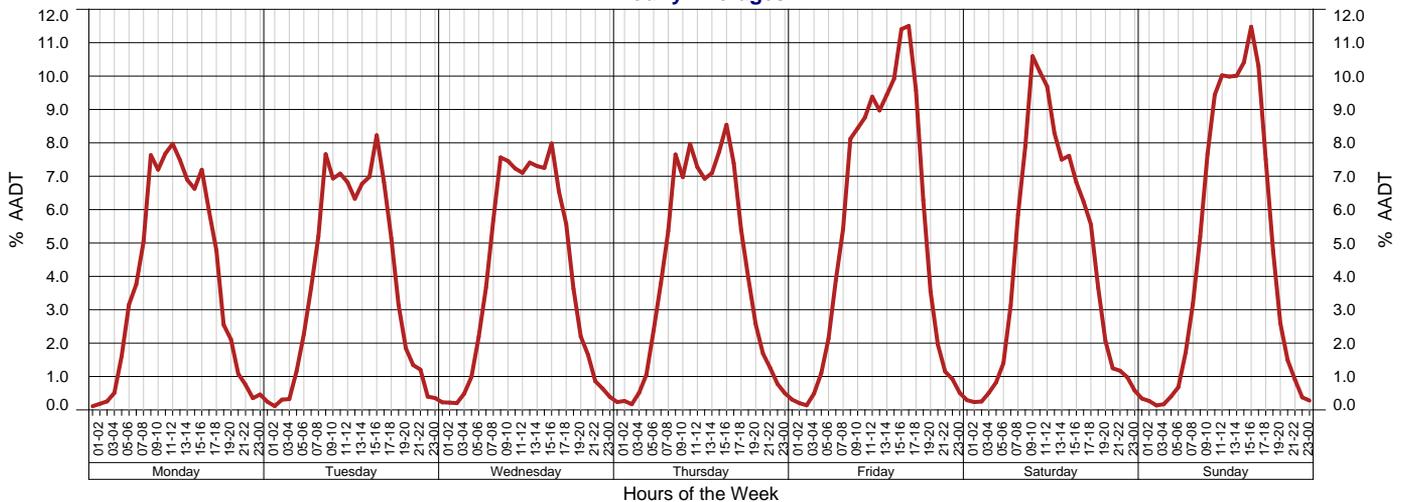
AADT History

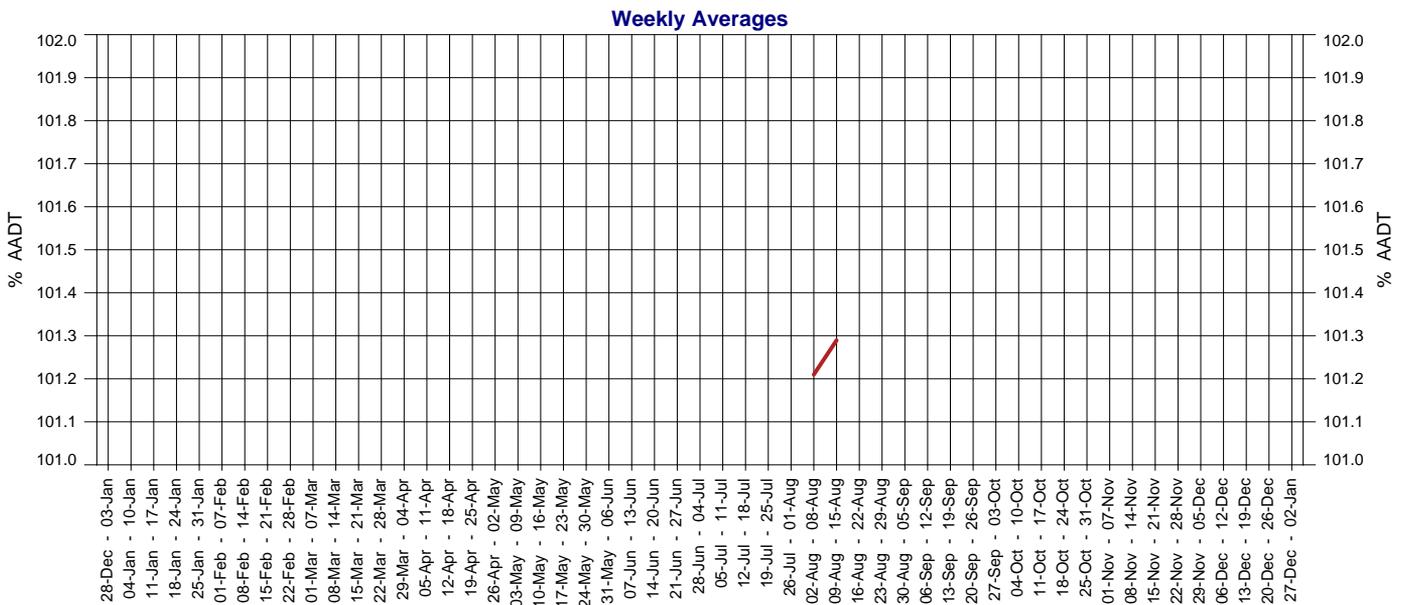
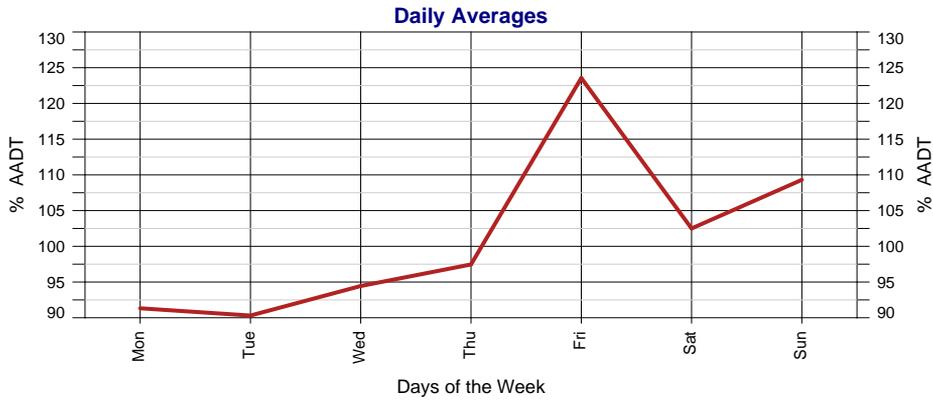


Year	AADT	1-Year Growth	5-Year Growth	10-Year Growth
2018	4,121		3.05%	2.35%
2017				
2016				
2015	3,798		1.98%	2.36%
2014				
2013	3,527	-1.51%	1.16%	2.10%
2012	3,581	-1.43%	2.83%	2.73%
2011	3,633	6.92%	4.05%	3.46%
2010	3,398	-2.61%	2.75%	2.95%
2009	3,489	10.52%	4.13%	3.91%
2008	3,157	4.71%	2.29%	
2007	3,015	-1.21%	1.72%	
2006	3,052	0.96%	3.20%	3.22%
2005	3,023	2.93%	3.92%	
2004	2,937	7.31%	4.40%	

Year	AADT	1-Year Growth	5-Year Growth	10-Year Growth
2003	2,737	0.07%		
2002	2,735	6.84%		
2001	2,560	1.83%	2.52%	
2000	2,514	7.16%		
1999	2,346			
1998				
1997				
1996	2,291			
1995				
1994				
1993				
1992				
1991				
1990				
1989				

Hourly Averages





2018 Calendar

January							February							March							April						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7	5	6	7	8	9	10	11	5	6	7	8	9	10	11	30	31					1
8	9	10	11	12	13	14	12	13	14	15	16	17	18	12	13	14	15	16	17	18	2	3	4	5	6	7	8
15	16	17	18	19	20	21	19	20	21	22	23	24	25	19	20	21	22	23	24	25	9	10	11	12	13	14	15
22	23	24	25	26	27	28	26	27	28					26	27	28	29	30	31	16	17	18	19	20	21	22	
29	30	31																			23	24	25	26	27	28	29
May							June							July							August						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
	1	2	3	4	5	6				1	2	3		30	31					1			1	2	3	4	5
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21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30	31		
September							October							November							December						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
					1	2	1	2	3	4	5	6	7				1	2	3	4	31					1	2
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
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17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23
24	25	26	27	28	29	30	29	30	31					26	27	28	29	30			24	25	26	27	28	29	30

Days on which traffic data was collected.

Annual Volume Report

Displays AADT history with hourly, daily and weekly patterns by Stream in addition to annual data for AADT figures with 1 year, 5 year and 10 year growth rates.

Annual Average Daily Traffic (AADT)

Annual Average Daily Traffic (AADT) is the number of vehicles passing a point on a road in a 24 hour period, averaged over a calendar year.

AADT History

Displays the years when traffic data was collected at this count site.

Area

For administration purposes the Department of Transport and Main Roads has divided Queensland into 12 Districts. The Area field in TSDM reports displays the District Name and Number.

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Metropolitan District	406
North Coast District	407
North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

Avg Week Day

Average daily traffic volume during the week days, Monday to Friday.

Avg Weekend Day

Average daily traffic volume during the weekend, Saturday and Sunday.

Calendar

Days on which traffic data was collected are highlighted in green.

Gazettal Direction

The Gazettal Direction is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

- G Traffic flowing in Gazettal Direction
- A Traffic flowing against Gazettal Direction
- B The combined traffic flow in both Directions

Growth Percentage

Represents the increase or decrease in AADT, using a exponential fit over the previous 1, 5 or 10 year period.

Hour, Day & Week Averages

The amount of traffic on the road network will vary depending on the time of day, the day of the week and the week of the year. The ebb and flow of traffic travelling through a site over a period of time forms a pattern. The Hour, Day and Week Averages are then used in the calculation of AADT.

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazettal Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Site

The unique identifier and description of the physical location of a traffic counting device. Sites are located at a Through Distance along a Road Section.

Stream

The lane in which the traffic is travelling in. This report provides data for the combined flow of traffic in both directions.

Thru Dist or TDist

The distance from the beginning of the Road Section, in kilometres.

Type

There are two types of traffic counting sites, Permanent and Coverage. Permanent means the traffic counting device is in place 24/7. Coverage means the traffic counting device is in place for a specified period of time.

Year

Is the current year for the report. Where an AADT Year record is missing a traffic count has not been conducted, for that year.

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AADT Segment Report

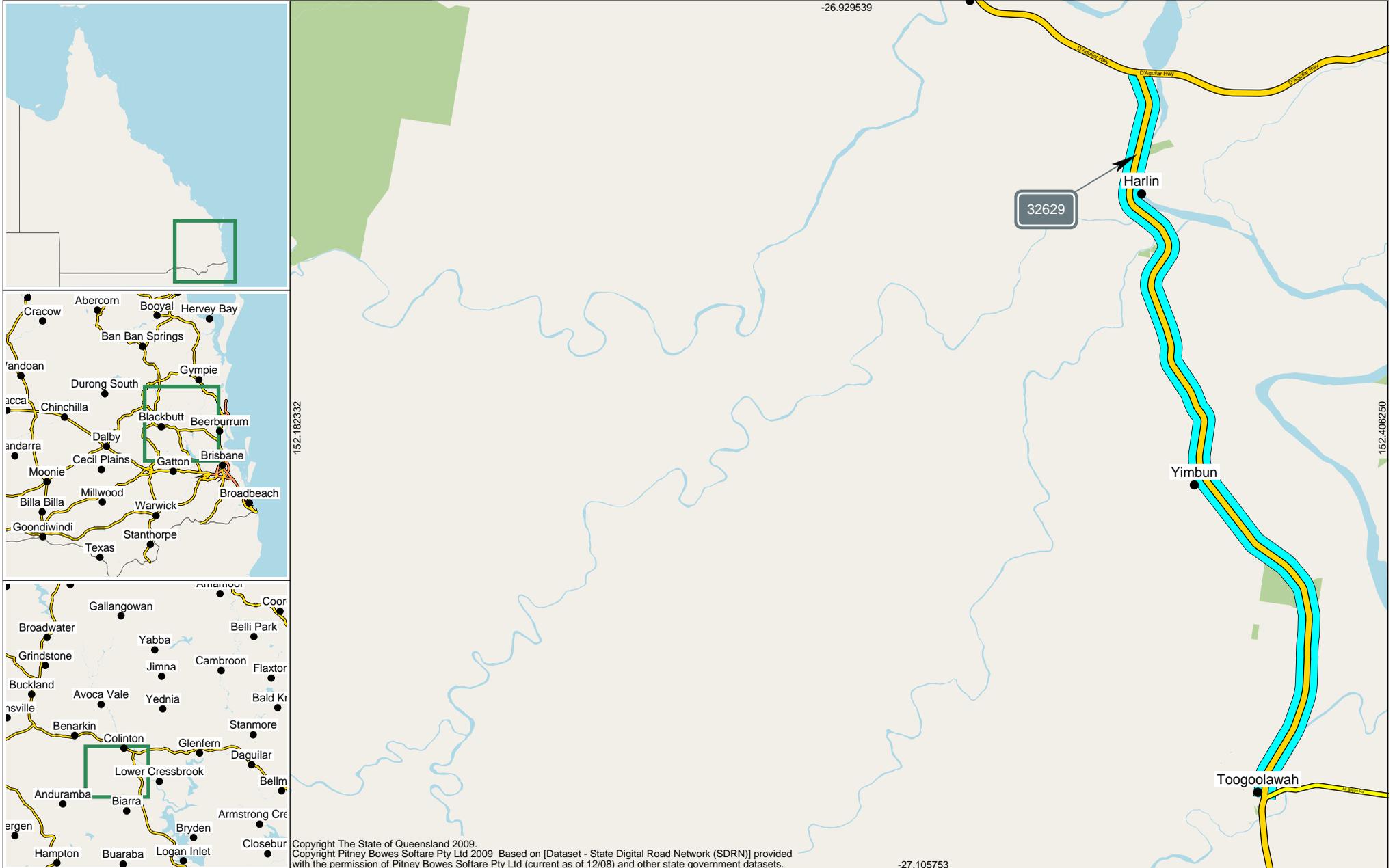
Area 407 - North Coast District
Road Segment from 71.590km to 89.520km

Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)

Segment Site 32629

Traffic Year 2018

Data Collection Year 2018



AADT Segment Report

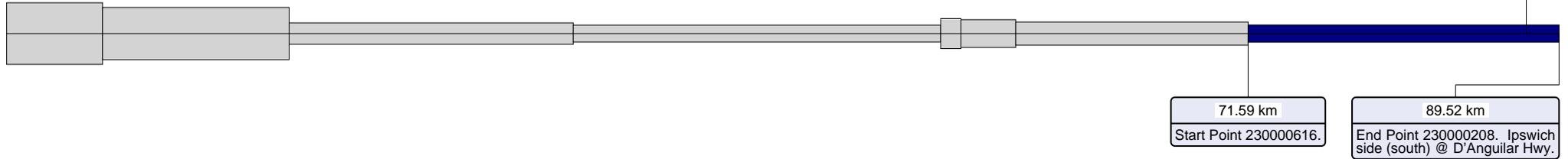
Area 407 - North Coast District
Road Segment from 71.590km to 89.520km

Road Section 42A - BRISBANE VALLEY HIGHWAY (IPSWICH-HARLIN)
Segment Site 32629 Traffic Year 2018 Data Collection Year 2018

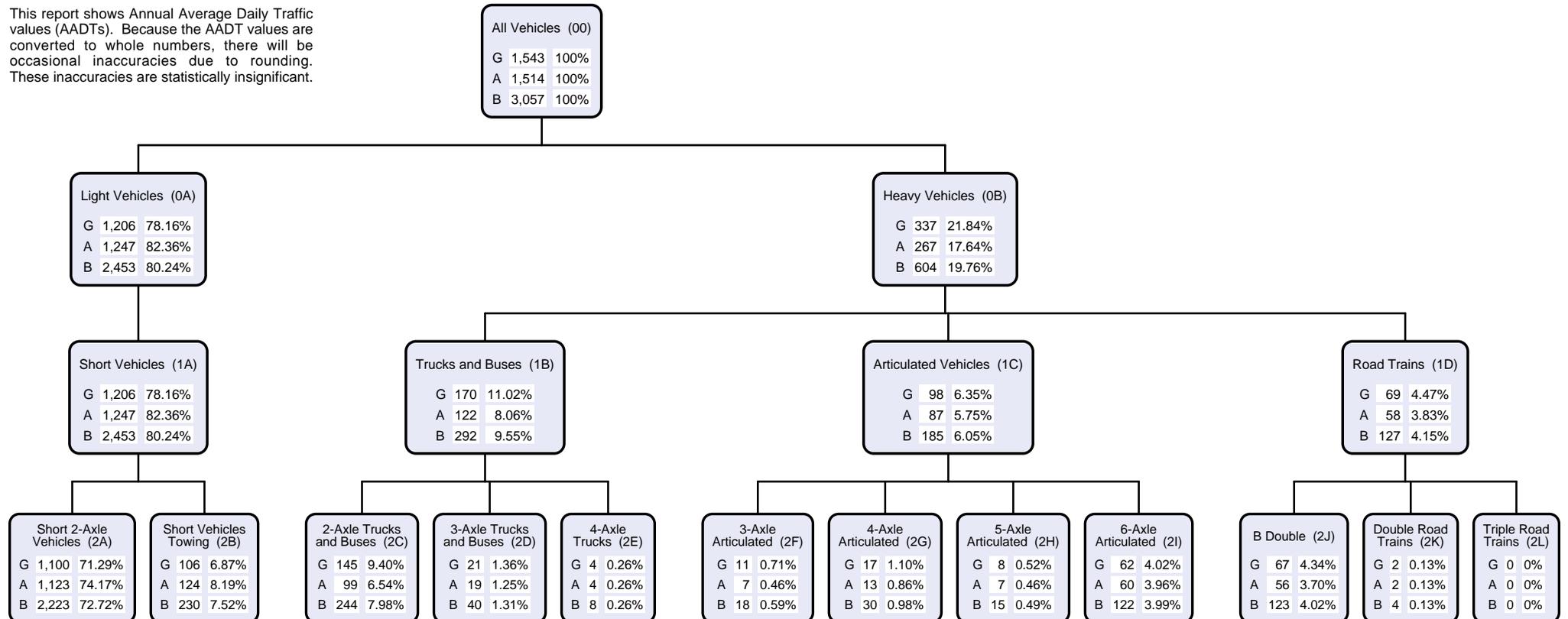
Site 32629. Point 230000908.
At Jimmy Gully Bridge 87.48Td.

87.63 km

The width of each Road Segment is proportional to its AADT.



This report shows Annual Average Daily Traffic values (AADTs). Because the AADT values are converted to whole numbers, there will be occasional inaccuracies due to rounding. These inaccuracies are statistically insignificant.



AADT Segment Annual Volume Report

Provides summary data for the selected AADT Segment of a Road Section. Summary data is presented as both directional information and a combined bi-directional figure. The data is then broken down by Traffic Class, when available. The report also includes maps displaying the location of both the AADT Segment and the traffic count site.

Annual Average Daily Traffic (AADT)

Annual Average Daily Traffic (AADT) is the number of vehicles passing a point on a road in a 24 hour period, averaged over a calendar year.

AADT Segments

The State declared road network is broken into Road Sections and then further broken down into AADT Segments. An AADT Segment is a sub-section of the declared road network where traffic volume is similar along the entire AADT Segment.

Area

For administration purposes the Department of Transport and Main Roads has divided Queensland into 12 Districts. The Area field in TSDM reports displays the District Name and Number.

District Name	District
Central West District	401
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North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

AADT Values

AADT values are displayed by direction of travel as:

- G Traffic flow in gazetted direction
- A Traffic flow against gazetted direction
- B Traffic flow in both directions

Data Collection Year

Is the most recent year that data was collected at the data collection site.

Please Note:

Due to location and/or departmental policy, some sites are not counted every year.

Gazetted Direction

Is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazetted direction is from Brisbane to Gympie.

Maps

Display the selected location from a range of viewing levels, the start and end position details for the AADT Segment and the location of the traffic count site.

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazetted Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Segment Site

Is the unique identifier for the traffic count site representing the traffic flow within the AADT Segment.

Site

The physical location of a traffic counting device. Sites are located at a specified Through Distance along a Road Section.

Site Description

The description of the physical location of the traffic counting device.

Start and End Point

The unique identifier for the Through Distance along a Road Section.

Vehicle Class

Traffic is categorised as per the Austroads Vehicle Classification scheme. Traffic classes are in the following hierarchical format:

Volume or All Vehicles

00 = 0A + 0B

Light Vehicles

0A = 1A

1A = 2A + 2B

Heavy Vehicles

0B = 1B + 1C + 1D

1B = 2C + 2D + 2E

1C = 2F + 2G + 2H + 2I

1D = 2J + 2K + 2L

The following classes are the categories for which data can be captured:

Volume

00 All vehicles

2-Bin

0A Light vehicles

0B Heavy vehicles

4-Bin

1A Short vehicles

1B Truck or bus

1C Articulated vehicles

1D Road train

12-Bin

2A Short 2 axle vehicles

2B Short vehicles towing

2C 2 axle truck or bus

2D 3 axle truck or bus

2E 4 axle truck

2F 3 axle articulated vehicle

2G 4 axle articulated vehicle

2H 5 axle articulated vehicle

2I 6 axle articulated vehicle

2J B double

2K Double road train

2L Triple road train

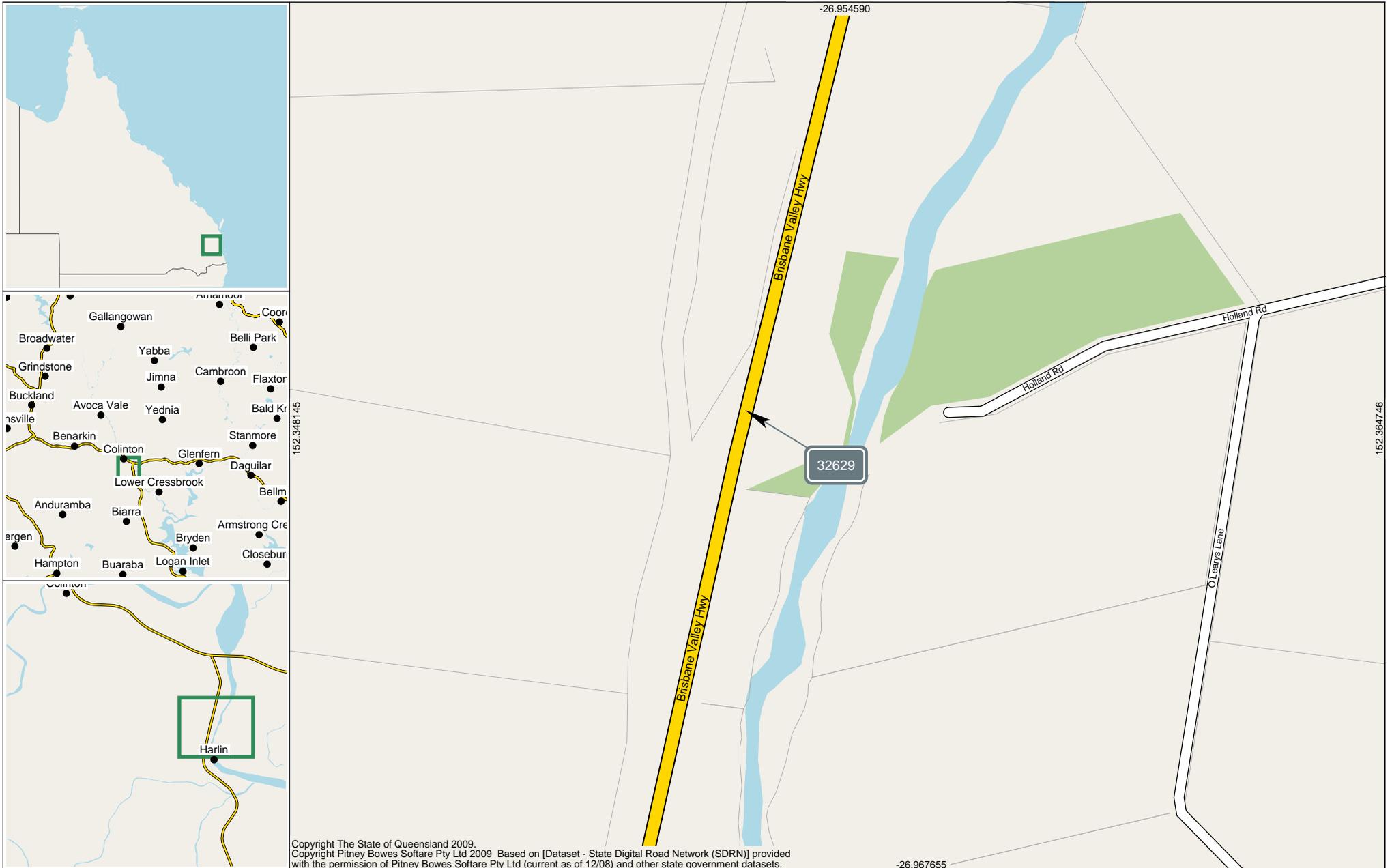
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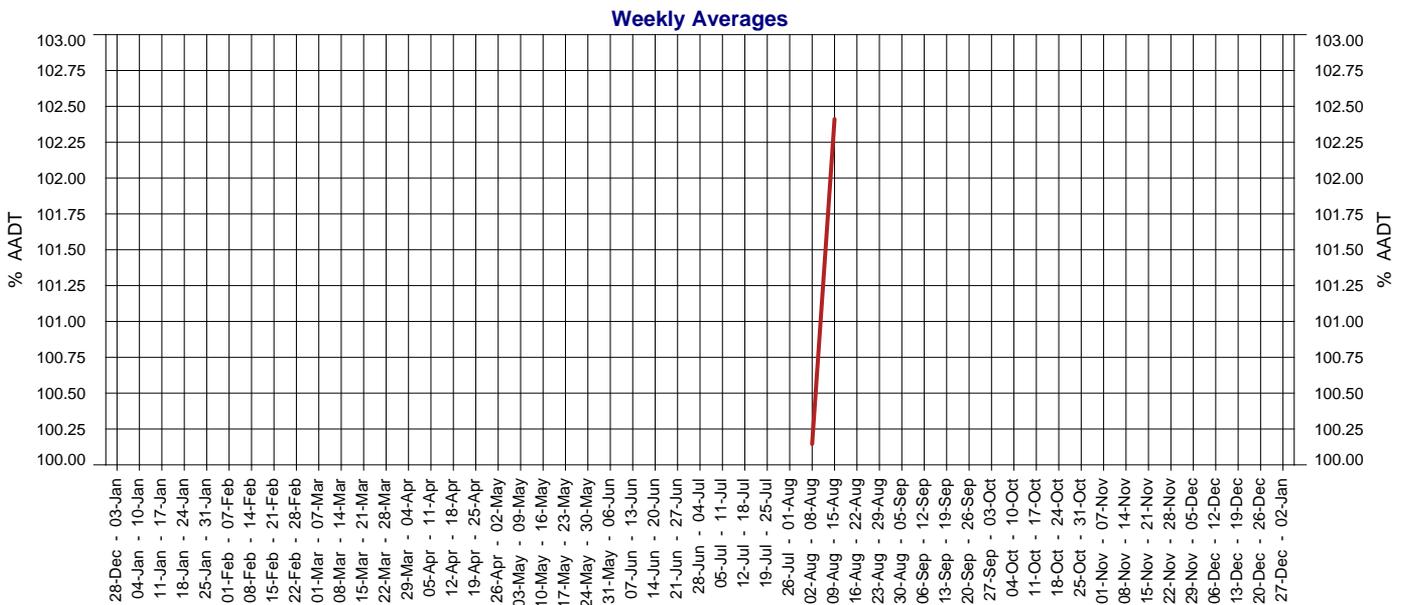
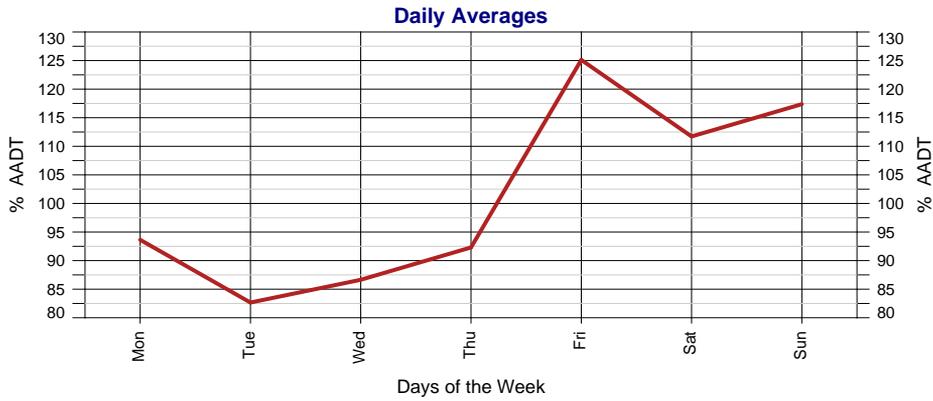
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2018 Calendar

January							February							March							April						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7	5	6	7	8	9	10	11	5	6	7	8	9	10	11	30	31					1
8	9	10	11	12	13	14	12	13	14	15	16	17	18	12	13	14	15	16	17	18	2	3	4	5	6	7	8
15	16	17	18	19	20	21	19	20	21	22	23	24	25	19	20	21	22	23	24	25	9	10	11	12	13	14	15
22	23	24	25	26	27	28	26	27	28					26	27	28	29	30	31	16	17	18	19	20	21	22	
29	30	31																			23	24	25	26	27	28	29
May							June							July							August						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
	1	2	3	4	5	6					1	2	3	30	31					1							
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
28	29	30	31				25	26	27	28	29	30	23	24	25	26	27	28	29	27	28	29	30	31			
September							October							November							December						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
					1	2	1	2	3	4	5	6	7				1	2	3	4	31						
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23
24	25	26	27	28	29	30	29	30	31					26	27	28	29	30	24	25	26	27	28	29	30		

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Appendix B – Traffic Census Locations

Chainage 5.33 Brisbane Valley Highway, Pine Mountain – 2018 DTMR Traffic census AADT = 10,987 / 9.57% Heavy Vehicles



Chainage 13.76 Brisbane Valley Highway, Fernvale – 2018 DTMR Traffic census AADT = 9,326 / 11.15% Heavy Vehicles



Chainage 25.34 Brisbane Valley Highway, Lake Wivenhoe – 2018 DTMR Traffic census AADT = 3,821 / 17.09% Heavy Vehicles



Chainage 37.10 Brisbane Valley Highway, Lake Wivenhoe – 2018 DTMR Traffic census AADT = 3,018 / 21.56% Heavy Vehicles



Chainage 54.26 Brisbane Valley Highway, Esk – 2018 DTMR Traffic census AADT = 5,351 / 14.26% Heavy Vehicles



Chainage 57.40 Brisbane Valley Highway, Esk – 2018 DTMR Traffic census AADT = 4,950 / 16.16% Heavy Vehicles



Chainage 87.63 Brisbane Valley Highway, Harlin – 2018 DTMR Traffic census AADT = 3,057 / 19.76% Heavy Vehicles



GHD

Regatta Lake Commercial, 4-6 Innovation Parkway
Kawana Business Village
T: 61 7 5413 8100 F: 61 7 5413 8199 E: bta1mail@ghd.com

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2902/[https://projectsportal.ghd.com/sites/pp14_03/srcconstructionphase/ProjectDocs/Brisbane Valley Highway_Minimum Sealed Shoulder Rev 0.docx](https://projectsportal.ghd.com/sites/pp14_03/srcconstructionphase/ProjectDocs/Brisbane%20Valley%20Highway_Minimum%20Sealed%20Shoulder%20Rev%200.docx)

Document Status

Revision	Author	Reviewer		Approved for Issue		
		Name	Signature	Name	Signature	Date
0	A Walker	P Hirst		A Walker		24/9/2019

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