

Peters, A. V. (1990). Extract from Hazard analysis of Tasman Bridge (pp. 16-20).
Hobart: Department of Roads and Transport.

Commonwealth of Australia

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6.0 COMMUNITY CHARACTERISTICS

6.1 General

Following the opening of the Tasman Bridge the Clarence Municipality growth rate continued at a faster rate than other parts of the urban area. The Municipality accounted for approximately 27 per cent of the population of urban Hobart by 1976.

The eastern shore possesses the basic characteristics of a dormitory suburb.

The hazard will impact both on the eastern and western suburbs of Hobart. However as the impact will be most significant on the eastern shore the Clarence Municipality has been chosen for analysis.

6.2 Infrastructure

The Tasman Bridge provides a significant link in the Hobart road infrastructure connection to the eastern shore. The Bowen Bridge provides a reasonable alternative crossing, however the road network and bridge capacity could not service the peak commuter demand.

The highway network services warehouse type development in Cambridge, major airport, recreational and residential community.

Despite the lessons learned from the Tasman Bridge disaster much of the Health service has been relocated to the western shore.

6.3 Population

The population base most affected by a Tasman Bridge closure would be the Clarence Municipality suburbs of Bellerive, Howrah, Mornington, Rokeby, Rosny-Montagu Bay, Tranmere and Warrane.

The other suburbs in the Clarence Municipality have been excluded on the basis that, due to their decentralisation, they are more readily accessible to alternate route options.

The 1986 population for the regions are :

<u>Region</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Bellerive	2022	2255	4277
Howrah	3780	3976	7756
Mornington	1318	1369	2687
Rokeby	1743	1856	3599
Rosny-Montagu Bay	839	945	1784
Tranmere	461	462	923
Warrane	<u>1313</u>	<u>1303</u>	<u>2616</u>
Totals	<u>11476</u>	<u>12166</u>	<u>23642</u>

6.4 Density

For the purposes of this assignment the number of people per square kilometre of area of the suburbs has been used. This has produced the following table :

<u>Region</u>	<u>Population</u>	<u>Area</u> <u>(km²)</u>	<u>Density</u> <u>Persons/km²</u>
Bellerive	4277	13.8	310
Howrah	7756	35.0	222
Mornington	2687	13.8	195
Rokeby	3599	30.0	120
Rosny-Montagu Bay	1784	10.0	178
Tranmere	923	12.5	74
Warrane	2616	8.8	297

Average Population Density - 191 persons/km²

It can be concluded that the highest population concentration is in the Bellerive and Warrane areas. These also are most likely to be affected by a Tasman Bridge closure.

6.5 Distribution

This has been taken to represent the concentration and types of schools, aged persons homes, residential accommodation and shopping centres. This distribution can be summarised as follows :

<u>Region</u>	<u>Schools</u>		<u>Major Shopping</u>	<u>Houses</u>
	<u>Primary</u>	<u>Secondary</u>	<u>Centres</u>	
Bellerive	2	1	Eastlands/Bellerive Village	1250
Howrah	1	1	Shoreline	2310
Mornington	1	-	-	681
Rokeby	2	1	-	913
Rosny-Montagu Bay	1	1	-	575
Tranmere	-	-	-	288
Warrane	1	-	-	786

A medical centre exists at Eastlands. One fully manned ambulance stationed at Clarence Medical Centre - 24 hour call. Other ambulances may be available on ad hoc basis when taken home by off-duty officers.

Fire Stations are located at Rosny Hill (permanent) - 1 appliance, 1 4x4 tanker; Rokeby (permanent) - 2 appliances, 1 4x4 tanker; and Risdon Vale (voluntary) - 1 appliance, 1 4x4 tanker.

In the event of Tasman Bridge failure relief can be provided from Moonah via the Bowen Bridge.

6.6 Mobility *Deferred*

Mobility is ~~affected~~ by the number of private vehicles per household and public transport. The assessment of the number of cars per household has been based upon the number of people over 19 and less than 70 with an average car per household of 1.5. By region this represents :

<u>Region</u>	<u>No. Population</u> <u>Older 19 years</u>	<u>Approximate</u> <u>No. Cars</u>
Bellerive	2618	3900
Howrah	4670	7000
Mornington	1343	2000
Rokeby	1791	2600
Rosny-Montagu Bay	1090	1600
Tranmere	568	850
Warrane	945	<u>1400</u>
	TOTAL	<u>19350</u>

In addition approximately 1200 bus trips are made per week day.

The passenger ferry "Emmalisa" (60 passengers) operates in a limited capacity between Bellerive and Hobart.

6.7 Ethnicity

The research approach has been restricted to an analysis of the English speaking ability within the identified region. For the purpose of this exercise "English speaking" has been defined as the main language of the birth-place.

The following population table illustrates the English and non English break-down of the population :

<u>Region</u>	<u>English Speaking</u>	<u>Non English</u>	<u>Total</u>
Bellerive	4114	163	4277
Howrah	7334	422	7756
Mornington	2602	85	2687
Rokeby	3507	92	3599
Rosny-Montagu Bay	1686	98	1789
Tranmere	878	45	923
Warrane	<u>2562</u>	<u>54</u>	<u>2616</u>
Total	<u>22683</u>	<u>959</u>	<u>23642</u>

20.

It can deduced from the above table that approximately 4.4 per cent of the population may have a language difficulty.