

B. Supplementary Guidelines Document One

ARTA Guidance Note for Assessing Trip & Traffic Generation 2007

1.	Other Transport Assessment Guidelines.....	1
2.	Traffic Impact Assessment.....	1
3.	Trip Rate Information	1
3.1	Publications	1
3.2	Databases.....	1
4.	Accident Analysis	2
5.	Traffic Flows	2
6.	Traffic Growth Rates	2
7.	Design Guidelines	2
8.	Passenger Transport Services.....	3

1. Other Transport Assessment Guidelines

The ITA Guidelines have taken cognisance of a number of guidelines developed around the world. These include:

- > “Guide to Transport Assessment for Development Proposals in Scotland” (2002), by the Scottish Executive; www.scotland.gov.uk
- > “Transport Assessment Guidelines for Developments: Version for Trial and Evaluation” (2006), by the Department of Planning and Infrastructure on behalf of the Western Australian Planning Commission; www.wapc.wa.gov.au
- > “Guidance on Transport Assessment” (2007), by Department of Transport (England and Wales), www.dft.gov.uk

2. Traffic Impact Assessment

The ITA Guidelines seek to ensure that the scope of “traditional” Traffic Impact Assessments (TIA’s) is broadened to include consideration of all transportation effects of a development proposal. However, the issues assessed within TIAs still need to be assessed within ITAs.

There is no acknowledged guideline for undertaking TIAs within New Zealand. However, the reader is referred to the “Guidelines for Traffic Impact Assessment” developed by the Institution of Highways and Transportation in the U.K, in 1994, where more detail is required than that provided within the ITA Guidelines.

3. Trip Rate Information

The following are acknowledged sources of trip rate information:

3.1 Publications

- > “Guide to Traffic Generating Developments” (Version 2.2, 2002), by the Roads and Traffic Authority of New South Wales
- > “Trip Generation” (Seventh Edition, 2003), by the Institute of Transportation Engineers
- > “Trips and Parking related to Land Use” (Volumes One and Two; Transfund New Zealand Research Reports 209 and 210, 2001), by Transfund New Zealand.

3.2 Databases

- > Database maintained by The New Zealand Trip Rate and Parking Database Bureau. This contains the information included within Transfund Research Report 210 (see above), plus additional information
- > Trip Rate Information Computer System (known as the TRICS database).

These publications and databases provide information on trip rates in New Zealand, Australia, UK and USA. All should be used with care, particularly those relating to sites outside New Zealand, as trip rates will differ between developments with similar land uses for a variety of reasons (such as size and location of catchment, the extent of passenger transport facilities, the location of competing developments, and so on).

The TRICS database provides some information on trips by all modes, rather than trips by motorised vehicles.

4. Accident Analysis

Records of reported accidents can be obtained from Land Transport New Zealand's Crash Analysis System.

5. Traffic Flows

Many territorial authorities include details of recent traffic counts on their web site.

Existing flows on state highways are available from the Transit New Zealand website. In particular, the reader is referred to the following documents:

- > State Highway Traffic Volumes: 2002-2006.

In addition, Transit prepares a document setting out details on flows on state highways in the Auckland region, each year (not available on the website). The most recent document is:

- > Auckland Region Traffic Data 2005.

6. Traffic Growth Rates

"Default" growth rates are set out in the Land Transport New Zealand Economic Evaluation Manual (updated October 2006). These rates should be used with caution and should not be assumed necessarily to be the rates that need to be accommodated up to a future design year.

7. Design Guidelines

The following design guidelines are relevant:

- > "Planning Policy Manual" (1999, plus 2005 Supplement), by Transit New Zealand
- > Austroads Guide to Traffic Engineering Practice series – some of the more relevant ones are:
 - Part 5: Intersections at Grade
 - Part 7: Traffic Signals
 - Part 11: Parking

- Part 13: Pedestrians
 - Part 14: Bicycles.
- > “Manual of Traffic Signs and Markings” (MOTSAM) prepared by Transit NZ – detailing signage and marking standards for New Zealand
 - > “Road and Traffic Standards” series produced by Land Transport Safety Authority – available online at <http://www.landtransport.govt.nz/roads/rts/index.html>. These standards/ guidelines cover a wide range of topics including:
 - > Guidelines for facilities for blind and vision impaired pedestrians
 - > Guidelines for visibility at driveway; and
 - > Guidelines for flush medians.
 - > “NZS 4404:2004 Land Development and Subdivision Engineering” (2004) by Standards New Zealand
 - > “Fundamentals of Planning and Design for Cycling” prepared by Transfund NZ (2004)
 - > “New Zealand Supplement to the Austroads Guide to Traffic Engineering Practice Part 14: Bicycles” prepared by Transit NZ (2005).

8. Passenger Transport Services

Passenger transport service design is the responsibility of ARTA, although it is undertaken in consultation with local councils and operators. Up-to-date service information is found on the MAXX website www.maxx.co.nz which should be included as part of the transport assessment. The web-site provides information on mode options (i.e. rail, bus, ferry), frequency and route design – all of which should be used when assessing the accessibility of passenger transport services in relation to a development proposal. Information is also provided on walking distance and time from particular addresses to passenger transport services. This information is also vital to a development proposal.