

## Appendix 14.4 TRICS

**TRIP RATE for Land Use 04 - EDUCATION/D - NURSERY**

MULTI-MODAL TOTAL PEOPLE

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

| Time Range           | No. Da   | Ave. GFA   | Arrivals     |          | Departures |              | No. Days | Ave. GFA   | TripRate      |
|----------------------|----------|------------|--------------|----------|------------|--------------|----------|------------|---------------|
|                      |          |            | Trip Rate    | No. Days | Trip Rate  | No. Days     |          |            |               |
| 07:00 - 08:00        | 3        | 362        | 2.857        | 3        | 362        | 1.198        | 3        | 362        | 4.055         |
| <b>08:00 - 09:00</b> | <b>3</b> | <b>362</b> | <b>7.097</b> | <b>3</b> | <b>362</b> | <b>4.516</b> | <b>3</b> | <b>362</b> | <b>11.613</b> |
| 09:00 - 10:00        | 3        | 362        | 1.935        | 3        | 362        | 1.014        | 3        | 362        | 2.949         |
| 10:00 - 11:00        | 3        | 362        | 0.553        | 3        | 362        | 0.461        | 3        | 362        | 1.014         |
| 11:00 - 12:00        | 3        | 362        | 2.396        | 3        | 362        | 2.488        | 3        | 362        | 4.884         |
| 12:00 - 13:00        | 3        | 362        | 3.041        | 3        | 362        | 2.304        | 3        | 362        | 5.345         |
| 13:00 - 14:00        | 3        | 362        | 1.659        | 3        | 362        | 2.396        | 3        | 362        | 4.055         |
| 14:00 - 15:00        | 3        | 362        | 0.922        | 3        | 362        | 1.382        | 3        | 362        | 2.304         |
| 15:00 - 16:00        | 3        | 362        | 5.346        | 3        | 362        | 4.7          | 3        | 362        | 10.046        |
| 16:00 - 17:00        | 3        | 362        | 3.687        | 3        | 362        | 5.53         | 3        | 362        | 9.217         |
| <b>17:00 - 18:00</b> | <b>3</b> | <b>362</b> | <b>3.594</b> | <b>3</b> | <b>362</b> | <b>5.346</b> | <b>3</b> | <b>362</b> | <b>8.94</b>   |
| 18:00 - 19:00        | 3        | 362        | 0.276        | 3        | 362        | 1.751        | 3        | 362        | 2.027         |

Trip Rate Parameter:

Number of pupils

**TRIP RATE for Land Use 04 - EDUCATION/A - PRIMARY**

Calculation Factor: 1 PUPILS

Count Type: TOTAL PEOPLE

Time Range

| Time Range         | ARRIVALS |             |            | DEPARTURES   |             |            | TOTALS       |             |            |              |
|--------------------|----------|-------------|------------|--------------|-------------|------------|--------------|-------------|------------|--------------|
|                    | No. Days | Ave. PUPILS | Trip Rate  | No. Days     | Ave. PUPILS | Trip Rate  | No. Days     | Ave. PUPILS | Trip Rate  |              |
| 03:00-04:00        |          |             |            |              |             |            |              |             |            |              |
| 04:00-05:00        |          |             |            |              |             |            |              |             |            |              |
| 05:00-06:00        |          |             |            |              |             |            |              |             |            |              |
| 06:00-07:00        |          |             |            |              |             |            |              |             |            |              |
| 07:00-08:00        |          | 5           | 291        | 0.115        | 5           | 291        | 0.027        | 5           | 291        | 0.142        |
| <b>08:00-09:00</b> |          | <b>5</b>    | <b>291</b> | <b>1.15</b>  | <b>5</b>    | <b>291</b> | <b>0.338</b> | <b>5</b>    | <b>291</b> | <b>1.488</b> |
| 09:00-10:00        |          | 5           | 291        | 0.142        | 5           | 291        | 0.154        | 5           | 291        | 0.296        |
| 10:00-11:00        |          | 5           | 291        | 0.025        | 5           | 291        | 0.025        | 5           | 291        | 0.05         |
| 11:00-12:00        |          | 5           | 291        | 0.028        | 5           | 291        | 0.015        | 5           | 291        | 0.043        |
| 12:00-13:00        |          | 5           | 291        | 0.079        | 5           | 291        | 0.069        | 5           | 291        | 0.148        |
| 13:00-14:00        |          | 5           | 291        | 0.071        | 5           | 291        | 0.117        | 5           | 291        | 0.188        |
| 14:00-15:00        |          | 5           | 291        | 0.065        | 5           | 291        | 0.057        | 5           | 291        | 0.122        |
| 15:00-16:00        |          | 5           | 291        | 0.354        | 5           | 291        | 0.933        | 5           | 291        | 1.287        |
| 16:00-17:00        |          | 5           | 291        | 0.069        | 5           | 291        | 0.318        | 5           | 291        | 0.387        |
| <b>17:00-18:00</b> |          | <b>5</b>    | <b>291</b> | <b>0.043</b> | <b>5</b>    | <b>291</b> | <b>0.084</b> | <b>5</b>    | <b>291</b> | <b>0.127</b> |
| 18:00-19:00        |          | 4           | 318        | 0.061        | 4           | 318        | 0.032        | 4           | 318        | 0.093        |

**TRIP RATE for P&R From Survey**

Vehicles

Calculation factor: per space

| Time Range         | Arrivals<br>Trip Rate | Departures<br>Trip Rate | TOTALS<br>Trip Rate |
|--------------------|-----------------------|-------------------------|---------------------|
| 06:00-07:00        | 0.153                 | 0.082                   | 0.235               |
| 07:00-08:00        | 0.588                 | 0.371                   | 0.959               |
| <b>08:00-09:00</b> | <b>0.437</b>          | <b>0.251</b>            | <b>0.688</b>        |
| 09:00-10:00        | 0.167                 | 0.104                   | 0.271               |
| 10:00-11:00        | 0.080                 | 0.041                   | 0.122               |
| 11:00-12:00        | 0.084                 | 0.065                   | 0.149               |
| 12:00-13:00        | 0.084                 | 0.088                   | 0.173               |
| 13:00-14:00        | 0.114                 | 0.118                   | 0.231               |
| 14:00-15:00        | 0.061                 | 0.090                   | 0.151               |
| 15:00-16:00        | 0.112                 | 0.116                   | 0.227               |
| 16:00-17:00        | 0.194                 | 0.247                   | 0.441               |
| <b>17:00-18:00</b> | <b>0.222</b>          | <b>0.361</b>            | <b>0.582</b>        |
| 18:00-19:00        | 0.188                 | 0.363                   | 0.551               |

**TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED**

MULTI-MODAL TOTAL PEOPLE

Calculation factor: 1 TOTBED

BOLD print indicates peak (busiest) period

| Time Range           | Arrivals |            |              | Departures |            |              | TripRate     |
|----------------------|----------|------------|--------------|------------|------------|--------------|--------------|
|                      | No. Da   | Ave. GFA   | Trip Rate    | No. Days   | Ave. GFA   | Trip Rate    |              |
| 07:00 - 08:00        | 8        | 271        | 0.033        | 8          | 271        | 0.14         | 0.173        |
| <b>08:00 - 09:00</b> | <b>8</b> | <b>271</b> | <b>0.049</b> | <b>8</b>   | <b>271</b> | <b>0.226</b> | <b>0.275</b> |
| 09:00 - 10:00        | 8        | 271        | 0.042        | 8          | 271        | 0.081        | 0.123        |
| 10:00 - 11:00        | 8        | 271        | 0.035        | 8          | 271        | 0.05         | 0.085        |
| 11:00 - 12:00        | 8        | 271        | 0.037        | 8          | 271        | 0.039        | 0.076        |
| 12:00 - 13:00        | 8        | 271        | 0.043        | 8          | 271        | 0.054        | 0.097        |
| 13:00 - 14:00        | 8        | 271        | 0.055        | 8          | 271        | 0.051        | 0.106        |
| 14:00 - 15:00        | 8        | 271        | 0.06         | 8          | 271        | 0.064        | 0.124        |
| 15:00 - 16:00        | 8        | 271        | 0.075        | 8          | 271        | 0.053        | 0.128        |
| 16:00 - 17:00        | 8        | 271        | 0.088        | 8          | 271        | 0.05         | 0.138        |
| <b>17:00 - 18:00</b> | <b>8</b> | <b>271</b> | <b>0.163</b> | <b>8</b>   | <b>271</b> | <b>0.066</b> | <b>0.229</b> |
| 18:00 - 19:00        | 8        | 271        | 0.187        | 8          | 271        | 0.083        | 0.27         |

**TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED**

MULTI-MODAL TOTAL PEOPLE

Calculation factor: 1 TOTBED

BOLD print indicates peak (busiest) period

| Time Range           | Arrivals  |            |              | Departures |            |              | No. Days  | Ave. GFA   | TripRate     |
|----------------------|-----------|------------|--------------|------------|------------|--------------|-----------|------------|--------------|
|                      | No. Da    | Ave. GFA   | Trip Rate    | No. Days   | Ave. GFA   | Trip Rate    |           |            |              |
| 07:00 - 08:00        | 35        | 290        | 0.031        | 35         | 290        | 0.133        | 35        | 290        | 0.164        |
| <b>08:00 - 09:00</b> | <b>35</b> | <b>290</b> | <b>0.073</b> | <b>35</b>  | <b>290</b> | <b>0.269</b> | <b>35</b> | <b>290</b> | <b>0.342</b> |
| 09:00 - 10:00        | 35        | 290        | 0.075        | 35         | 290        | 0.116        | 35        | 290        | 0.191        |
| 10:00 - 11:00        | 35        | 290        | 0.068        | 35         | 290        | 0.089        | 35        | 290        | 0.157        |
| 11:00 - 12:00        | 35        | 290        | 0.072        | 35         | 290        | 0.088        | 35        | 290        | 0.16         |
| 12:00 - 13:00        | 35        | 290        | 0.1          | 35         | 290        | 0.091        | 35        | 290        | 0.191        |
| 13:00 - 14:00        | 35        | 290        | 0.104        | 35         | 290        | 0.106        | 35        | 290        | 0.21         |
| 14:00 - 15:00        | 35        | 290        | 0.117        | 35         | 290        | 0.107        | 35        | 290        | 0.224        |
| 15:00 - 16:00        | 35        | 290        | 0.173        | 35         | 290        | 0.1          | 35        | 290        | 0.273        |
| 16:00 - 17:00        | 35        | 290        | 0.192        | 35         | 290        | 0.106        | 35        | 290        | 0.298        |
| <b>17:00 - 18:00</b> | <b>35</b> | <b>290</b> | <b>0.227</b> | <b>35</b>  | <b>290</b> | <b>0.115</b> | <b>35</b> | <b>290</b> | <b>0.342</b> |
| 18:00 - 19:00        | 35        | 290        | 0.171        | 35         | 290        | 0.124        | 35        | 290        | 0.295        |

TRIP RATE for Land Use 01 - RETAIL/I - SHOPPING CENTRE - LOCAL SHOPS

Calculation Factor: 100 sqm

Count Type: TOTAL PEOPLE

| Time Range  | No. Days | Ave. GFA | ARRIVALS  |                     | No. Days | Ave. GFA | DEPARTURES |                     | No. Days | Ave. GFA | TOTALS    |                     |         |
|-------------|----------|----------|-----------|---------------------|----------|----------|------------|---------------------|----------|----------|-----------|---------------------|---------|
|             |          |          | Trip Rate | Estimated Trip Rate |          |          | Trip Rate  | Estimated Trip Rate |          |          | Trip Rate | Estimated Trip Rate |         |
| 00:00-01:00 |          |          |           |                     |          |          |            |                     |          |          |           |                     |         |
| 01:00-02:00 |          |          |           |                     |          |          |            |                     |          |          |           |                     |         |
| 02:00-03:00 |          |          |           |                     |          |          |            |                     |          |          |           |                     |         |
| 03:00-04:00 |          |          |           |                     |          |          |            |                     |          |          |           |                     |         |
| 04:00-05:00 |          |          |           |                     |          |          |            |                     |          |          |           |                     |         |
| 05:00-06:00 |          |          |           |                     |          |          |            |                     |          |          |           |                     |         |
| 06:00-07:00 |          | 1        | 540       | 6.667               | 160      | 1        | 540        | 5.926               | 142.222  | 1        | 540       | 12.593              | 302.222 |
| 07:00-08:00 |          | 12       | 868       | 7.362               | 176.677  | 12       | 868        | 6.258               | 150.187  | 12       | 868       | 13.62               | 326.864 |
| 08:00-09:00 |          | 12       | 868       | 12.007              | 288.166  | 12       | 868        | 11.988              | 287.705  | 12       | 868       | 23.995              | 575.871 |
| 09:00-10:00 |          | 12       | 868       | 12.66               | 303.83   | 12       | 868        | 10.894              | 261.445  | 12       | 868       | 23.554              | 565.275 |
| 10:00-11:00 |          | 12       | 868       | 12.679              | 304.29   | 12       | 868        | 11.681              | 280.334  | 12       | 868       | 24.36               | 584.624 |
| 11:00-12:00 |          | 12       | 868       | 13.264              | 318.341  | 12       | 868        | 13.312              | 319.493  | 12       | 868       | 26.576              | 637.834 |
| 12:00-13:00 |          | 12       | 868       | 17.468              | 419.234  | 12       | 868        | 16.585              | 398.042  | 12       | 868       | 34.053              | 817.276 |
| 13:00-14:00 |          | 12       | 868       | 15.673              | 376.159  | 12       | 868        | 15.913              | 381.918  | 12       | 868       | 31.586              | 758.077 |
| 14:00-15:00 |          | 12       | 868       | 14.646              | 351.512  | 12       | 868        | 15.328              | 367.866  | 12       | 868       | 29.974              | 719.378 |
| 15:00-16:00 |          | 12       | 868       | 16.95               | 406.795  | 12       | 868        | 17.43               | 418.313  | 12       | 868       | 34.38               | 825.108 |
| 16:00-17:00 |          | 12       | 868       | 14.368              | 344.832  | 12       | 868        | 13.792              | 331.011  | 12       | 868       | 28.16               | 675.843 |
| 17:00-18:00 |          | 12       | 868       | 13.178              | 316.268  | 12       | 868        | 14.435              | 346.444  | 12       | 868       | 27.613              | 662.712 |
| 18:00-19:00 |          | 12       | 868       | 13.475              | 323.409  | 12       | 868        | 13.821              | 331.702  | 12       | 868       | 27.296              | 655.111 |
| 19:00-20:00 |          | 10       | 979       | 11.967              | 287.196  | 10       | 979        | 12.508              | 300.184  | 10       | 979       | 24.475              | 587.38  |
| 20:00-21:00 |          | 10       | 979       | 10.282              | 246.763  | 10       | 979        | 10.854              | 260.486  | 10       | 979       | 21.136              | 507.249 |
| 21:00-22:00 |          | 10       | 979       | 8.178               | 196.283  | 10       | 979        | 8.597               | 206.33   | 10       | 979       | 16.775              | 402.613 |