

Road User Behaviour Surveys

Contents

| | | <u>Tables</u> | | | | | | | | <u>Page</u> |
|---------|---|---------------|---|---|---|---|---|---|---|-------------|
| Table 1 | Seatbelt Wearing Rates for Front Seat Adults. | . | . | . | . | . | . | . | . | 166 |
| Table 2 | Seatbelt Wearing Rates for Rear Seat Adults . | . | . | . | . | . | . | . | . | 166 |
| Table 3 | Child Restraints in Cars | . | . | . | . | . | . | . | . | 167 |
| Table 4 | Cycle Helmet Wearing Rates | . | . | . | . | . | . | . | . | 167 |
| Table 5 | Mean Open Road Speeds | . | . | . | . | . | . | . | . | 168 |
| Table 6 | 85th Percentile Open Road Speeds | . | . | . | . | . | . | . | . | 168 |
| Table 7 | Mean Urban Speeds | . | . | . | . | . | . | . | . | 169 |
| Table 8 | 85th Percentile Urban Speeds | . | . | . | . | . | . | . | . | 169 |

Table 1 – Safety Belt Wearing Rates for Front Seat Adults

In the survey carried out in March and April 2004 about 94,600 adult front seat drivers and passengers were surveyed at 274 sites around the country. Note that this survey was expanded from 114 sites in 2002 to 274 in 2003, so from 2003 results are not strictly comparable with those from earlier surveys.

| Region | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|--------------------|------|------|------|------|------|------|------|
| Northland | 84 | 87 | 83 | 88 | 93 | 90 | 93 |
| Auckland | 97 | 93 | 94 | 94 | 91 | 95 | 96 |
| Waikato | 88 | 87 | 90 | 93 | 94 | 93 | 94 |
| Bay of Plenty | 83 | 90 | 92 | 94 | 95 | 93 | 95 |
| Gisborne | 91 | 93 | 97 | 94 | 95 | 96 | 92 |
| Hawkes Bay | 81 | 79 | 81 | 82 | 90 | 90 | 91 |
| Taranaki | 96 | 98 | 92 | 93 | 96 | 93 | 92 |
| Manawatu-Wanganui | 84 | 83 | 87 | 88 | 88 | 88 | 92 |
| Wellington | 88 | 95 | 89 | 94 | 93 | 91 | 94 |
| Nelson-Marlborough | 89 | 89 | 90 | 94 | 95 | 96 | 96 |
| West Coast | 73 | 77 | 82 | 94 | 90 | 90 | 93 |
| Canterbury | 91 | 90 | 92 | 92 | 93 | 92 | 94 |
| Otago | 93 | 93 | 94 | 95 | 95 | 92 | 94 |
| Southland | 88 | 92 | 95 | 93 | 87 | 93 | 96 |
| New Zealand | 88 | 89 | 90 | 92 | 92 | 92 | 94 |

Table 2 – Safety Belt Wearing Rates for Rear Seat Adults

In the survey carried out in November/December 2004 rear seat passengers in more than 10,000 cars were observed at 139 sites around the country.

| Region | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|--------------------|------|------|------|------|------|------|------|
| Northland | 64 | 76 | 88 | 72 | 84 | 87 | 89 |
| Auckland | 62 | 57 | 84 | 84 | 84 | 82 | 90 |
| Waikato | 71 | 75 | 78 | 80 | 78 | 82 | 85 |
| Bay of Plenty | 46 | 73 | 66 | 53 | 79 | 70 | 78 |
| Gisborne | 38 | 39 | 53 | 55 | 54 | 69 | 59 |
| Hawkes Bay | 53 | 64 | 47 | 52 | 81 | 76 | 87 |
| Taranaki | 64 | 71 | 66 | 65 | 81 | 83 | 81 |
| Manawatu-Wanganui | 67 | 60 | 83 | 73 | 79 | 85 | 85 |
| Wellington | 77 | 85 | 78 | 71 | 77 | 82 | 87 |
| Nelson-Marlborough | 51 | 74 | 85 | 82 | 77 | 90 | 93 |
| West Coast | 59 | 61 | 75 | 82 | 79 | 78 | 85 |
| Canterbury | 49 | 58 | 76 | 58 | 76 | 82 | 88 |
| Otago | 68 | 71 | 87 | 85 | 88 | 79 | 78 |
| Southland | 54 | 64 | 74 | 76 | 67\$ | 88 | 74 |
| New Zealand | 62 | 67 | 76 | 70 | 80 | 81 | 86 |

Table 3 - Child Restraints in Cars

In the survey carried out in September and October 2004, children aged under 5 years in more than 5000 cars were observed at 110 sites around the country. The table shows the percentage restrained in approved child restraints. In the 2004 survey 48% were restrained in child seats, 28% in booster seats, 11% in infant seats and less than 1% in child harnesses. A further 8% were restrained by adult safety belts. The remaining 5% were not restrained, including 1% who were held on the knee of other passengers

| Region | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|--------------------|------|------|------|------|------|------|------|
| Northland | 60 | 61 | 70 | 69 | 85 | 84 | 95 |
| Auckland | 73 | 70 | 75 | 77 | 83 | 82 | 81 |
| Waikato | 75 | 80 | 78 | 81 | 88 | 90 | 87 |
| Bay of Plenty | 68 | 75 | 79 | 78 | 87 | 78 | 81 |
| Gisborne | n/a | 47 | 68 | 79 | 69 | 76 | 88 |
| Hawkes Bay | 62 | 74 | 67 | 90 | 94 | 83 | 92 |
| Taranaki | 75 | 82 | 77 | 78 | 95 | 91 | 94 |
| Manawatu-Wanganui | 78 | 71 | 83 | 81 | 84 | 89 | 94 |
| Wellington | 81 | 81 | 81 | 84 | 82 | 90 | 89 |
| Nelson-Marlborough | 78 | 65 | 73 | 79 | 94 | 92 | 93 |
| West Coast | 95 | 80 | 82 | 83 | 92 | 92 | 92 |
| Canterbury | 90 | 87 | 88 | 94 | 91 | 93 | 93 |
| Otago | 91 | 89 | 87 | 97 | 97 | 90 | 95 |
| Southland | 87 | 84 | 88 | 76 | 81 | 88 | 83 |
| New Zealand | 76 | 75 | 79 | 82 | 86 | 86 | 87 |

Table 4 - Cycle Helmet Wearing Rates

In the survey carried out in February and March 2004 more than 7000 cyclists of primary and intermediate school age, secondary school age and adults were surveyed at 58 sites around the country.

| Region | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|--------------------|------|------|------|------|------|------|------|
| Northland | 96 | 75 | 89 | 85 | 81 | 69 | 85 |
| Auckland | 83 | 82 | 91 | 86 | 79 | 76 | 85 |
| Waikato | 93 | 93 | 91 | 96 | 92 | 93 | 91 |
| Bay of Plenty | 93 | 94 | 91 | 93 | 87 | 87 | 84 |
| Gisborne | 98 | 96 | 96 | 96 | 92 | 96 | 92 |
| Hawkes Bay | 89 | 91 | 85 | 91 | 84 | 85 | 95 |
| Taranaki | 97 | 96 | 95 | 95 | 90 | 86 | 92 |
| Manawatu-Wanganui | 97 | 96 | 95 | 95 | 87 | 92 | 93 |
| Wellington | 97 | 96 | 96 | 96 | 92 | 91 | 94 |
| Nelson-Marlborough | 98 | 96 | 96 | 97 | 96 | 95 | 95 |
| West Coast | 97 | 97 | 84 | 90 | 62 | 87 | 95 |
| Canterbury | 97 | 98 | 97 | 97 | 92 | 89 | 94 |
| Otago | 95 | 94 | 92 | 91 | 85 | 91 | 98 |
| Southland | 97 | 98 | 96 | 97 | 93 | 92 | 95 |
| New Zealand | 95 | 95 | 93 | 94 | 89 | 89 | 92 |

Open Road Car Speeds

In the survey of open road speeds of cars carried out in July/August 2004 over 12,000 cars were surveyed at 61 sites around the country.

Table 5 - Mean Open Road Speeds (km/h)

| Region | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|--------------------|-------|-------|-------|-------|-------|-------|-----------|
| Northland | 99.0 | 99.1 | 98.2 | 96.3 | 96.3 | 95.7 | 96.5 |
| Auckland | 102.5 | 101.0 | 101.9 | 102.2 | 100.5 | 98.5 | 97.0 |
| Waikato | 102.6 | 101.0 | 100.2 | 99.4 | 97.2 | 97.0 | 97.0 |
| Bay of Plenty | 100.2 | 100.7 | 100.2 | 96.7 | 96.4 | 95.1 | 96.4 |
| Gisborne | 97.0 | 97.5 | 97.5 | 100.1 | 99.6 | 97.7 | 97.3 |
| Hawkes Bay | 104.1 | 103.9 | 103.5 | 101.8 | 101.4 | 100.0 | 99.0 |
| Taranaki | 100.7 | 99.9 | 100.5 | 99.6 | 98.5 | 97.7 | 98.1 |
| Manawatu-Wanganui | 105.6 | 105.8 | 105.5 | 103.6 | 102.8 | 100.8 | 101.1 |
| Wellington | 99.3 | 99.1 | 97.9 | 98.7 | 96.2 | 97.4 | 96.2 |
| Nelson-Marlborough | 98.8 | 98.2 | - | - | - | - | *see note |
| West Coast | 101.8 | 101.0 | - | - | - | - | *see note |
| Canterbury | 105.2 | 104.6 | 105.3 | 102.5 | 101.5 | 100.0 | 99.3 |
| Otago | 101.8 | 101.2 | 101.3 | 99.1 | 99.3 | 97.4 | 97.9 |
| Southland | 101.8 | 102.6 | 101.1 | 101.7 | 99.7 | 99.2 | 98.3 |
| New Zealand | 102.2 | 101.8 | 101.4 | 100.2 | 99.1 | 98.0 | 97.8 |

Table 6 - 85th Percentile Open Road Speeds (km/h)

| Region | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|--------------------|------|------|------|------|------|------|-----------|
| Northland | 112 | 110 | 109 | 105 | 105 | 105 | 105 |
| Auckland | 117 | 116 | 116 | 116 | 113 | 112 | 110 |
| Waikato | 112 | 110 | 108 | 107 | 104 | 103 | 103 |
| Bay of Plenty | 112 | 113 | 112 | 109 | 107 | 105 | 107 |
| Gisborne | 110 | 110 | 110 | 111 | 110 | 108 | 108 |
| Hawkes Bay | 114 | 113 | 112 | 111 | 108 | 106 | 106 |
| Taranaki | 111 | 110 | 111 | 109 | 108 | 105 | 105 |
| Manawatu-Wanganui | 116 | 116 | 115 | 112 | 110 | 107 | 108 |
| Wellington | 110 | 109 | 107 | 108 | 105 | 106 | 104 |
| Nelson-Marlborough | 110 | 109 | - | - | - | - | *see note |
| West Coast | 112 | 112 | - | - | - | - | *see note |
| Canterbury | 116 | 114 | 113 | 110 | 108 | 106 | 105 |
| Otago | 111 | 110 | 110 | 107 | 107 | 105 | 105 |
| Southland | 111 | 112 | 110 | 109 | 107 | 107 | 104 |
| New Zealand | 113 | 112 | 111 | 109 | 107 | 105 | 105 |

85th percentile speed means 15% of the vehicles surveyed were travelling faster than this speed.

* Note: Two or fewer sites in this area - this is inadequate to provide regional estimates.
For Tasman police district mean speed = 94.4 km/h and 85th percentile = 103 km/h

Urban Car Speeds

In the survey of urban speeds of cars carried out in July/August 2004 about 16,700 cars were surveyed at 64 sites around the country.

Table 7 - Mean Urban Speeds (km/h)

| Region | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|--------------------|------|------|------|------|------|------|------|
| Northland | 55.6 | 55.1 | 54.2 | 54.5 | 53.0 | 53.1 | 51.8 |
| Auckland | 57.9 | 58.2 | 57.7 | 57.5 | 56.3 | 55.9 | 54.5 |
| Waikato | 57.3 | 57.6 | 56.7 | 55.8 | 55.2 | 55.8 | 54.4 |
| Bay of Plenty | 56.7 | 57.3 | 57.5 | 50.8 | 50.5 | 49.5 | 49.6 |
| Gisborne | 50.0 | 51.0 | 51.1 | 57.6 | 57.0 | 56.6 | 56.0 |
| Hawkes Bay | 56.6 | 56.1 | 55.4 | 54.6 | 54.3 | 53.7 | 53.3 |
| Taranaki | 53.8 | 53.2 | 51.9 | 51.9 | 51.6 | 51.2 | 50.3 |
| Manawatu-Wanganui | 55.8 | 56.0 | 54.2 | 54.8 | 53.7 | 51.9 | 51.5 |
| Wellington | 54.9 | 53.6 | 53.7 | 53.2 | 52.3 | 51.5 | 50.8 |
| Nelson-Marlborough | 54.4 | 53.4 | 53.2 | 52.1 | 51.9 | 50.1 | 50.4 |
| West Coast | | | | | | | |
| Canterbury | 54.4 | 54.0 | 54.2 | 54.8 | 53.8 | 53.2 | 52.1 |
| Otago | 54.2 | 55.4 | 53.1 | 54.0 | 53.2 | 52.7 | 52.3 |
| Southland | 55.9 | 55.4 | 55.9 | 56.1 | 54.6 | 54.2 | 54.4 |
| New Zealand | 55.9 | 55.8 | 55.3 | 55.2 | 54.3 | 53.7 | 52.9 |

Table 8 - 85th Percentile Urban Speeds (km/h)

| Region | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|--------------------|------|------|------|------|------|------|------|
| Northland | 61.5 | 62.0 | 60.0 | 61.0 | 59.0 | 58.5 | 57.0 |
| Auckland | 65.0 | 65.0 | 64.0 | 63.0 | 62.0 | 61.0 | 59.5 |
| Waikato | 64.0 | 64.5 | 63.0 | 61.5 | 61.0 | 61.5 | 60.0 |
| Bay of Plenty | 63.5 | 63.5 | 64.5 | 57.0 | 56.5 | 55.5 | 55.0 |
| Gisborne | 57.5 | 58.0 | 57.5 | 64.0 | 63.5 | 63.5 | 62.5 |
| Hawkes Bay | 64.0 | 62.5 | 62.5 | 60.0 | 60.5 | 59.0 | 58.5 |
| Taranaki | 59.0 | 58.5 | 57.5 | 57.5 | 56.5 | 56.5 | 55.0 |
| Manawatu-Wanganui | 62.5 | 62.0 | 60.5 | 60.5 | 59.5 | 57.0 | 56.5 |
| Wellington | 60.0 | 59.0 | 59.0 | 58.0 | 57.0 | 56.0 | 55.0 |
| Nelson-Marlborough | 60.0 | 60.0 | 59.0 | 57.5 | 57.0 | 55.5 | 55.0 |
| West Coast | | | | | | | |
| Canterbury | 60.0 | 60.0 | 60.0 | 61.0 | 59.0 | 59.0 | 58.0 |
| Otago | 60.0 | 61.0 | 59.0 | 59.0 | 58.0 | 58.0 | 57.0 |
| Southland | 62.0 | 61.0 | 62.0 | 62.0 | 60.5 | 59.0 | 60.0 |
| New Zealand | 63.0 | 62.5 | 62.0 | 61.5 | 60.5 | 59.5 | 58.0 |

85th percentile speed means 15% of the vehicles surveyed were travelling faster than this speed.

