Rural Schools Variable Speed Limits Trial

15 April 2013
3M Traffic Safety Innovation Award

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Rural School Road Safety Investigation

Objective: To gain a better understanding of the road safety issues faced by rural schools, and using a Safe System approach, recommend initiatives to improve road safety at rural schools.

Six School Workshops

- Whenuakite School
- Dairy Flat School
- Te Uku School
- Kai Iwi School
- Opiki School
- Pakipaki School
Main Concerns

- The road environment outside the school
- The design and operation of the school parking area
- School bus safety

Common Issues With The Road Environment

- Conspicuity
- Traffic speeds
- Overtaking
- Right turning
School Signs

Standard School Sign

Pedestrian Risk
School Signs

Standard School Sign

40km/h School Zone

Active School Warning Sign

Pedestrian Risk

School Signs

Standard School Sign

40km/h School Zone

Active School Warning Sign

Pedestrian Risk

Turning Vehicle Risk
Rural School Variable Speed Limits Trial Locations as at April 2013

- Dairy Flat School 60
- Ararimu School 60
- Puni School 60
- Te Uku School 60
- Kai Iwi School 70
- Westmere School 70
- Opiki School 60
- Whenuakite School 70
- Kaihere School 60
- Pakipaki School 60
- Loburn School 60
- Waikuku School 60
- Swannanoa School 70
- Myross Bush School 70

Te Uku School Before/After

SH23 Westbound February 2012

SH23 Westbound March 2013
Te Uku School Speed Counts
One day only results

After - State Highway 23 Te Uku School – Permanent 80km/h & Variable 60km/h Speed Limits
Before - State Highway 23 Te Uku School – Permanent 100km/h Speed Limit

After - State Highway 23 Te Uku School – Permanent 80km/h & Variable 60km/h Speed Limits

Kaihere School Before/After

SH27 Southbound November 2011

SH27 Southbound April 2013
Kaihere School

State Highway 27 Kaihere School Southbound December 2012

Before - State Highway 27 Kaihere School – Permanent 100km/h Speed Limit

After - State Highway 23 Te Uku School – Permanent 80km/h & Variable 60km/h Speed Limits
Whenuakite School

State Highway 25 Whenuakite School Northbound June 2011

Before - State Highway 25 Whenuakite School – Permanent 100km/h Speed Limit
- Tuesday 8 May 2012
- Average Trendline

After - State Highway 25 Whenuakite School – Permanent 80km/h & Variable 40km/h Speed Limits
- Tuesday 24 July 2012
- Average Trendline
# Speed Survey Results

**Te Uku School** – Speed data during school times 8:30-9:05am / 2:45-3:05pm

<table>
<thead>
<tr>
<th>Speed Limit (km/h)</th>
<th>Eastbound</th>
<th>Westbound</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average (km/h)</td>
<td>65</td>
<td>70</td>
</tr>
<tr>
<td>85th Percentile (km/h)</td>
<td>84</td>
<td>85</td>
</tr>
</tbody>
</table>

**Kaihere School** – Speed data during school times 8:25-9:00am / 2:55-3:15pm

<table>
<thead>
<tr>
<th>Speed Limit (km/h)</th>
<th>Northbound</th>
<th>Southbound</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average (km/h)</td>
<td>81</td>
<td>71</td>
</tr>
<tr>
<td>85th Percentile (km/h)</td>
<td>91</td>
<td>83</td>
</tr>
</tbody>
</table>

**Whenuakite School** – Speed data during school times 8:25-9:00am / 2:55-3:15pm

<table>
<thead>
<tr>
<th>Speed Limit (km/h)</th>
<th>Northbound</th>
<th>Southbound</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average (km/h)</td>
<td>52</td>
<td>53</td>
</tr>
<tr>
<td>85th Percentile (km/h)</td>
<td>70</td>
<td>70</td>
</tr>
</tbody>
</table>

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Thank You