Waterfall Way Route Review
Casualty Crash Data Analysis

June 2014
Centre for Road Safety, TfNSW
Overview of Crash Analysis

- From Tyringham St, Dorrigo to 10m west of Pacific Highway, Raleigh was examined.

- This section of Waterfall Way is approximately 40km in length.

- Casualty crashes for the period 2009 to 2013 (as at 27 May 2013) were analysed.
Over the five years 2009 to 2013p there have been 114 casualties reported from the 81 casualty crashes on Waterfall Way.

Of the 114 casualties, one person was killed and 113 people were injured.
Location of Casualty Crashes

Waterfall Way Route Review
from Tyringham Street, Dorrigo to 10 m west of Pacific Hwy, Raleigh

Casualty Crashes 2009-2013p

Legend
- Fatal Crash
- Injury Crash
- Towaway Crash

Map produced by Centre for Road Safety, NSW (2014)
Casualty Characteristics: Who

- Of the 114 casualties, 80% were motor vehicle occupants and 16 per cent were motorcyclists.
- More than half the casualties were males (59%).
Age Groups

Casualties, Waterfall Way
(btw Tyringham St Dorrigo to 10 m west of Pacific Hwy, Raleigh), 2009 to 2013p, Age Group

- 0-16: 5%
- 17-25: 19%
- 26-39: 23%
- 40-59: 30%
- 60+: 18%
- Unknown: 5%
Casualties, Waterfall Way
(btw Tyringham St Dorrigo to 10 m west of Pacific Hwy,
Raleigh), 2009 to 2013, Gender

- Male: 59%
- Female: 39%
- Unknown: 2%
A majority of drivers and riders involved in crashes on Waterfall Way were residents of Bellingen Shire Council (59%) or from the neighbouring LGAs of Coffs Harbour and Nambucca (18%).
Casualty Crashes: When

- 72% of casualty crashes occurred between 8am to 8pm.
- Summer and Spring months accounted for the highest number of casualty crashes.
Casualty Crash Characteristics: Where

- Over half of the crashes occurred in speed zones signposted at 100km/h or more (58%).
- The majority occurred away from intersections (81%).
- Over half occurred on curved lengths of Waterfall Way (62%).
- Around two in every five crashes occurred on a wet road surface (43%), considerably higher than other country roads (21%).

Casualty Crashes, Waterfall Way
(btwn Tyringham St Dorrigo to 10 m west of Pacific Hwy, Raleigh),
2009 to 2013p, Location Features
Casualty Crash Characteristics: What 90km/h or above

Casualty Crashes, Waterfall Way
(btw Tyringham St Dorrigo to 10 m west of Pacific Hwy, Raleigh),
2009 to 2013p, Speed Limit 90 km/h or More, Crash Type

<table>
<thead>
<tr>
<th>Location Feature</th>
<th>Number of Casualty Crashes</th>
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<tbody>
<tr>
<td>Off Path Curve</td>
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<tr>
<td>Off Path Straight</td>
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<tr>
<td>Head On (not overtaking)</td>
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<tr>
<td>Overtaking</td>
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<tr>
<td>On Path</td>
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<td>Rear End</td>
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<td>Vehicles Adjacent</td>
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<tr>
<td>Miscellaneous</td>
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Casualty Crash Characteristics: What 80km/h or less

Casualty Crashes, Waterfall Way
(btw Tyringham St Dorrigo to 10 m west of Pacific Hwy, Raleigh),
2009 to 2013p, Speed Limit 80 km/h or Less, Crash Type

<table>
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<tr>
<td>Overtaking</td>
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Behavioural Factors

- Waterfall Way has a higher rate of inappropriate speed involved casualty crashes (41% v 30%), a slightly lower rate of alcohol involved casualty crashes (5% v 7%) and a slightly lower rate of fatigue involved casualty crashes (7% v 12%)

- Of the drivers and riders involved in casualty crashes travelling at inappropriate speeds, 61% reside in Bellingen Shire Council

- Of the fatigued drivers and riders involved in casualty crashes, 83% reside in Bellingen Shire Council.
Casualty Crashes/Casualties, Waterfall Way
(btw Tyringham St Dorrigo to 10 m west of Pacific Hwy, Raleigh),
2009 to 2013p, Contributing Behaviour Factors

- Speed: 41%
- Fatigue: 7%
- Illegal Alcohol: 5%
- Restraint Non usage: 1%
Involvement of Heavy Trucks

• Of the 81 crashes on Waterfall Way, five crashes involved heavy trucks, (no heavy truck fatal crashes).

• Waterfall Way has a slightly lower incidence of heavy truck casualty crashes compared to Country NSW (6% -vs- 7%).

• Heavy Vehicles account for 14% of traffic, NSW average approximately 7%

• Speeding contributed to one heavy truck crash while fatigue was not considered to have contributed to any of the five heavy truck crashes.
Involvement of Motorcycles

- 19% of casualty crashes on Waterfall Way involved a motorcycle
- 60% of all motorcycle casualty crashes on this section of Waterfall Way were single vehicle crashes.
- Compared with all NSW country roads (14%), Waterfall Way has a higher incidence of motorcycle casualty crashes (19%).
Summary

• Over the five year period analysed there have been 81 casualty crashes resulting in 1 fatality and 113 injuries.
• The majority of drivers and riders involved in the casualty crashes live in Bellingen Shire Council.
• Crashes on curves and on wet roads were common.
• Just over half of all crashes occurred on sections signposted at 90km/h or more. Of these, the majority were single vehicle crashes into fixed objects or vehicle rollover crashes.
• Compared with casualty crashes on all country roads, there was a high proportion of speed related crashes and a high proportion of motorcycle crashes.