



Transport
for NSW

Waterfall Way Route Review

Casualty Crash Data Analysis

June 2014

Centre for Road Safety, TfNSW

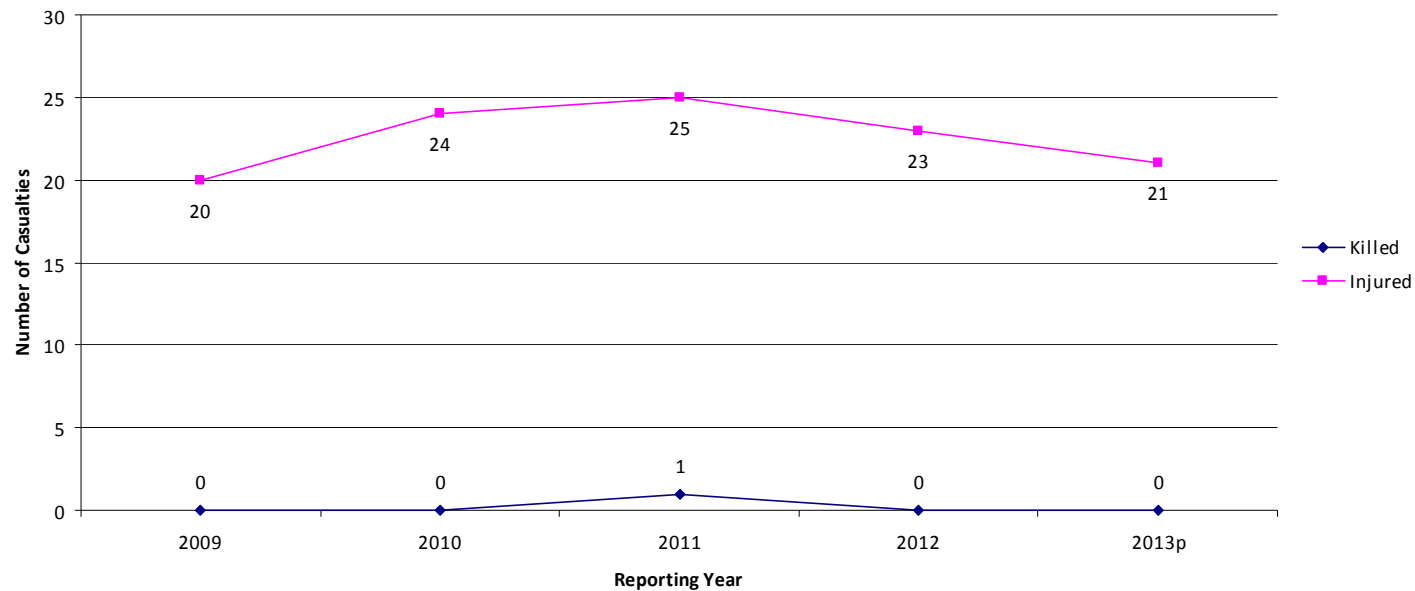
Overview of Crash Analysis

- 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 2013p (as at 27 May 2013) were analysed.

Casualty Trends 2009 – 2013p

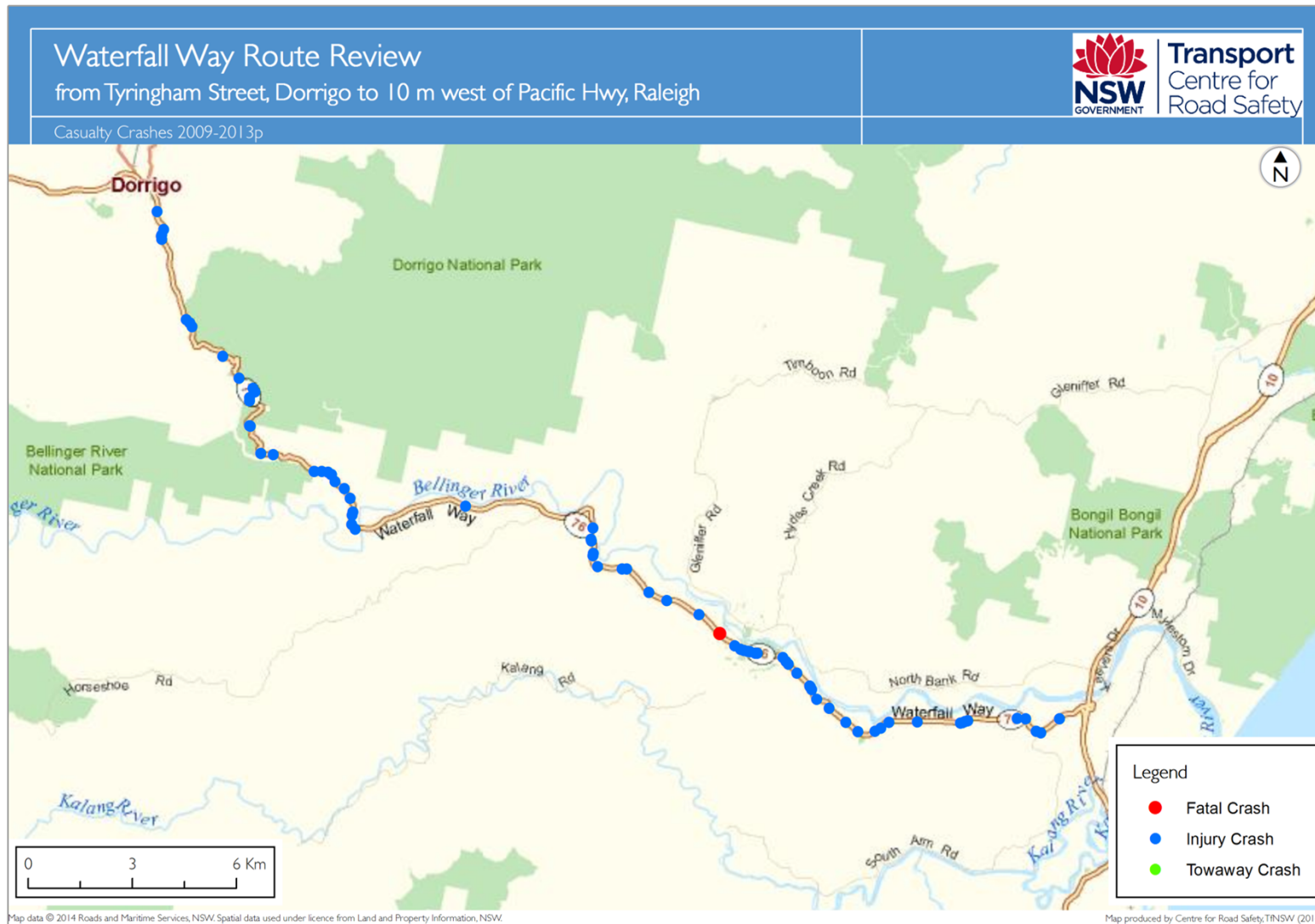
- Over the five years 2009 to 2013p there have been 114 casualties reported from the 81 casualty crashes on Waterfall Way.
- Of the 114 casualties, one person was killed and 113 people were injured.

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





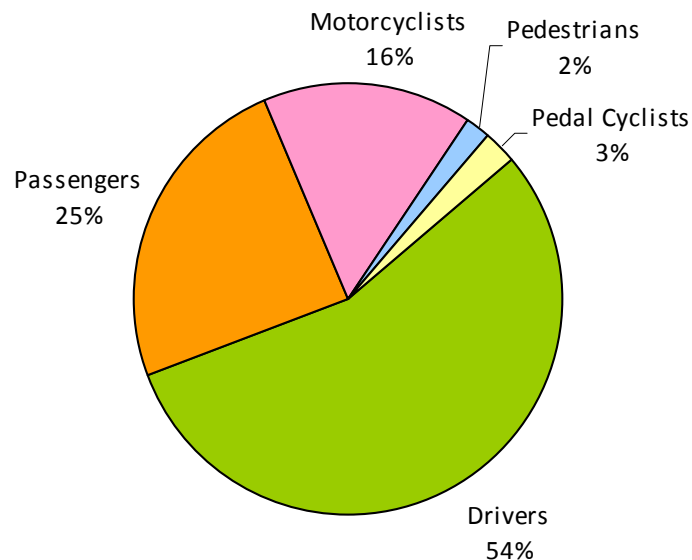
Location of Casualty Crashes



Casualty Characteristics: Who

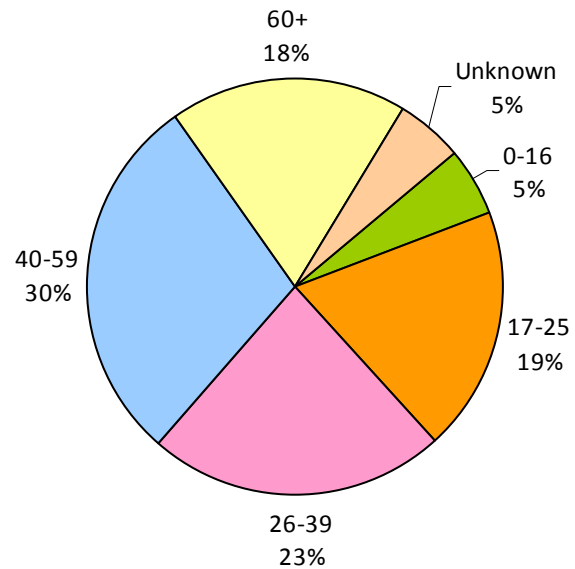
- Of the 114 casualties, 80% were motor vehicle occupants and 16 per cent were motorcyclists.
- More than half the casualties were males (59%).

**Casualties, Waterfall Way
(btw Tyringham St Dorrigo to 10 m west of Pacific Hwy,
Raleigh), 2008 to 2013p, Class of Road User**



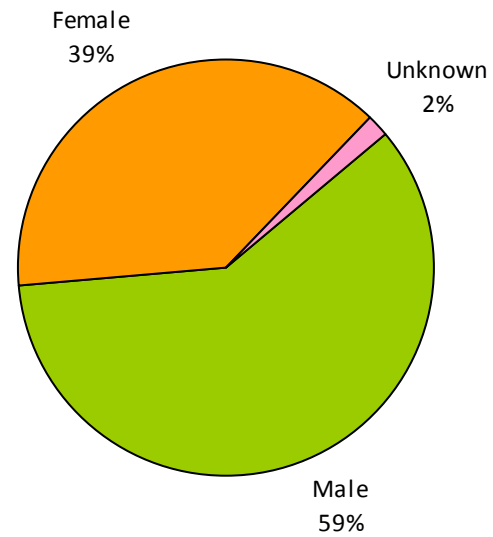
Age Groups

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



Gender

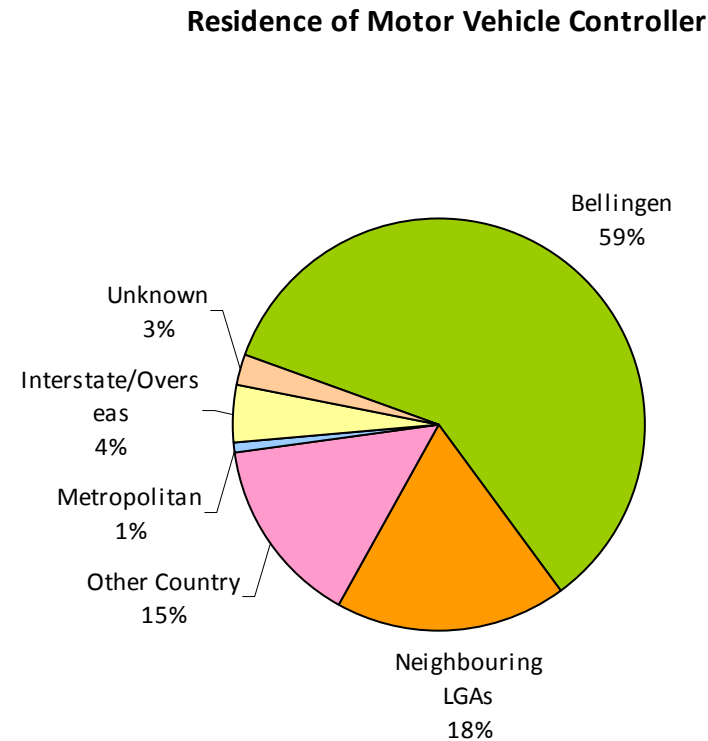
**Casualties, Waterfall Way
(btw Tyringham St Dorrigo to 10 m west of Pacific Hwy,
Raleigh), 2009 to 2013p, Gender**



Casualty Characteristics: Who

Residence of Motor Vehicle Controller Involved

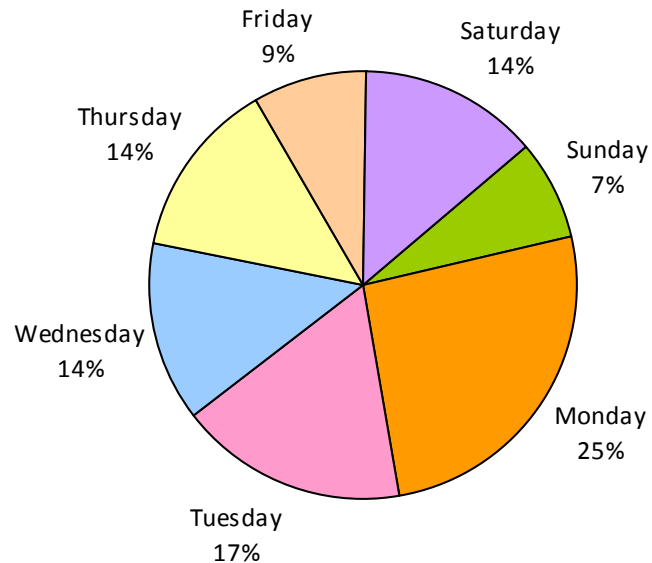
- A majority of drivers and riders involved in crashes on Waterfall Way were residents of Bellingen Shire Council (59%) or from the neighbouring LGAs of Coffs Harbour and Nambucca(18%).



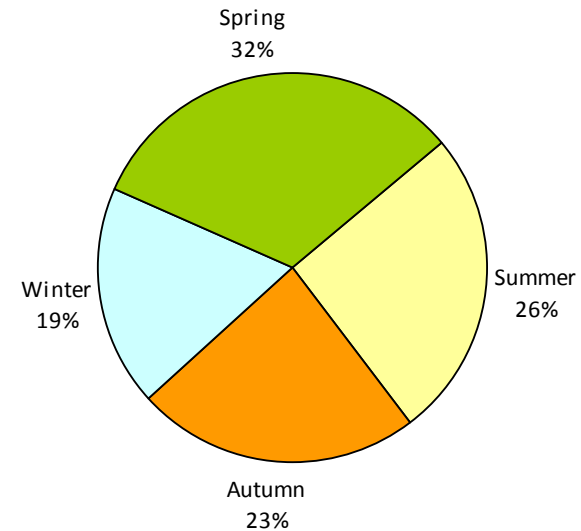
Casualty Crashes: When

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

**Casualty Crashes, Waterfall Way
(btw Tyringham St Dorrigo to 10 m west of Pacific Hwy,
Raleigh), 2009 to 2013p, Day of Week**



**Casualty Crashes, Waterfall Way
(btw Tyringham St Dorrigo to 10 m west of Pacific
Hwy, Raleigh), 2009 to 2013p, Season**

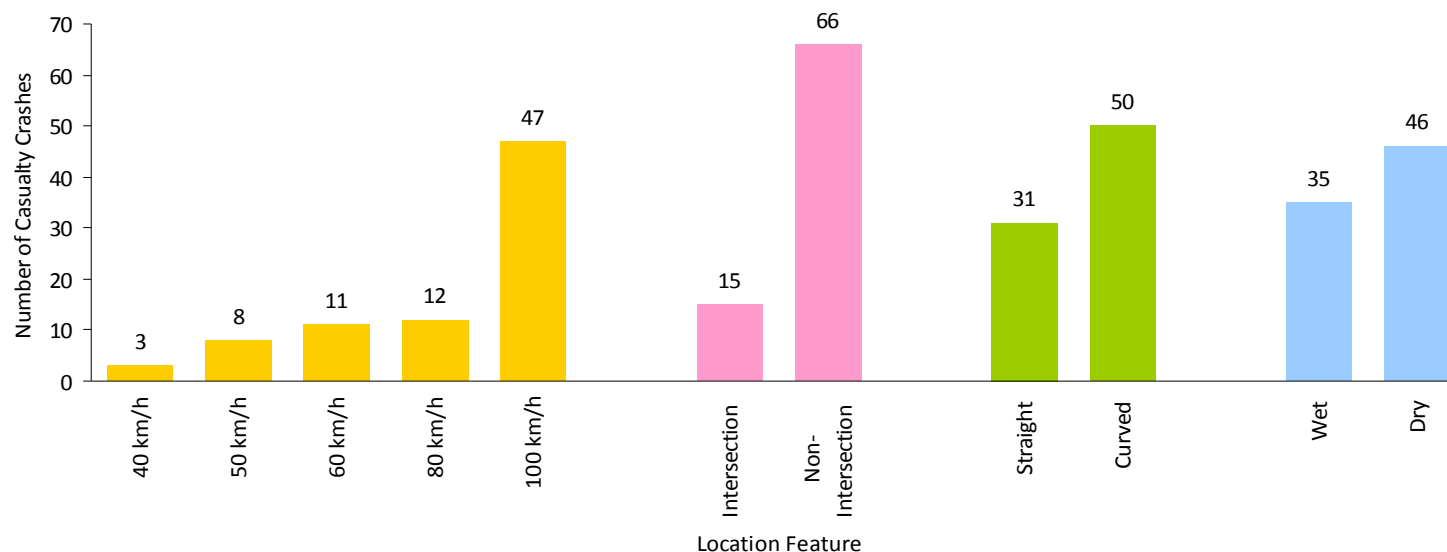


Casualty

Crash Characteristics: Where

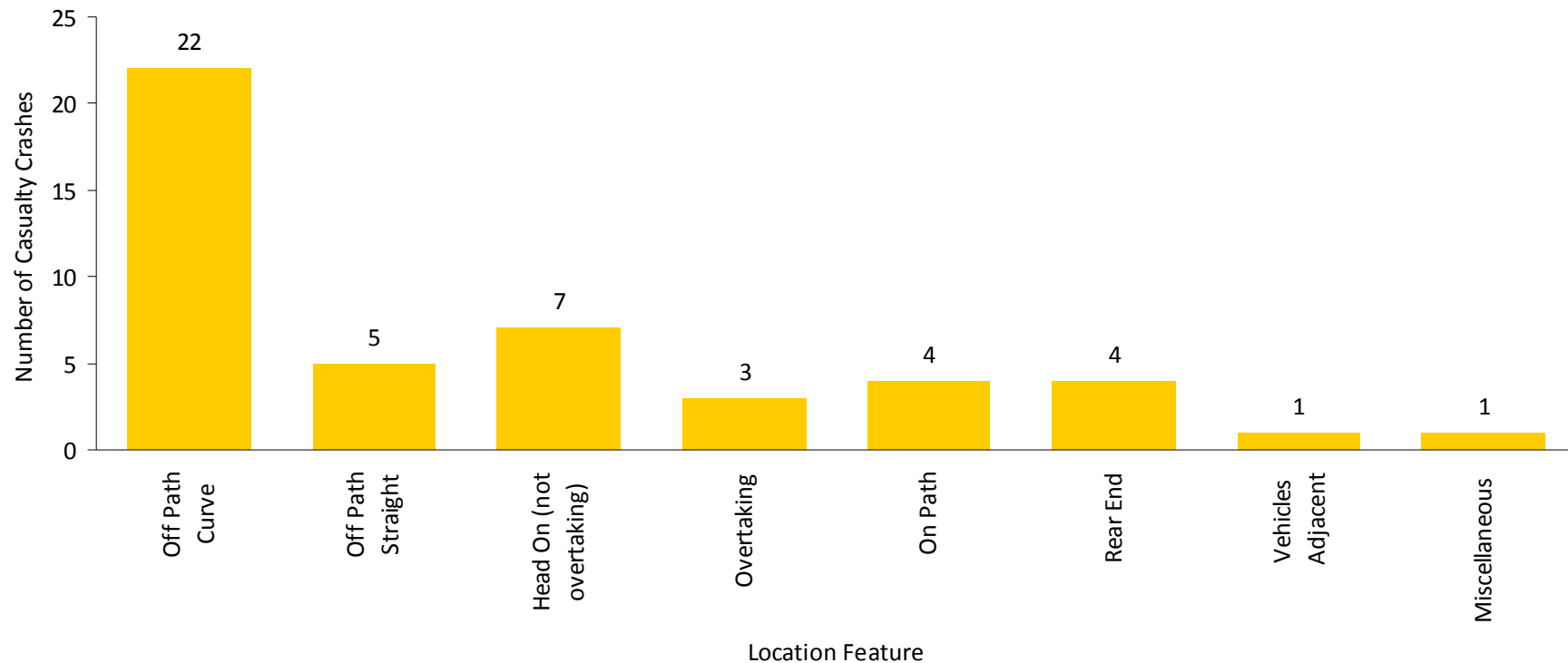
- Over half of the crashes occurred in speed zones signposted at 100km/h or more (58%).
- The majority occurred away from intersections (81%).
- Over half occurred on curved lengths of Waterfall Way (62%).
- Around two in every five crashes occurred on a wet road surface (43%), considerably higher than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

Casualty Crashes, Waterfall Way
(btw Tyringham St Dorrigo to 10 m west of Pacific Hwy, Raleigh),
2009 to 2013p, Location Features



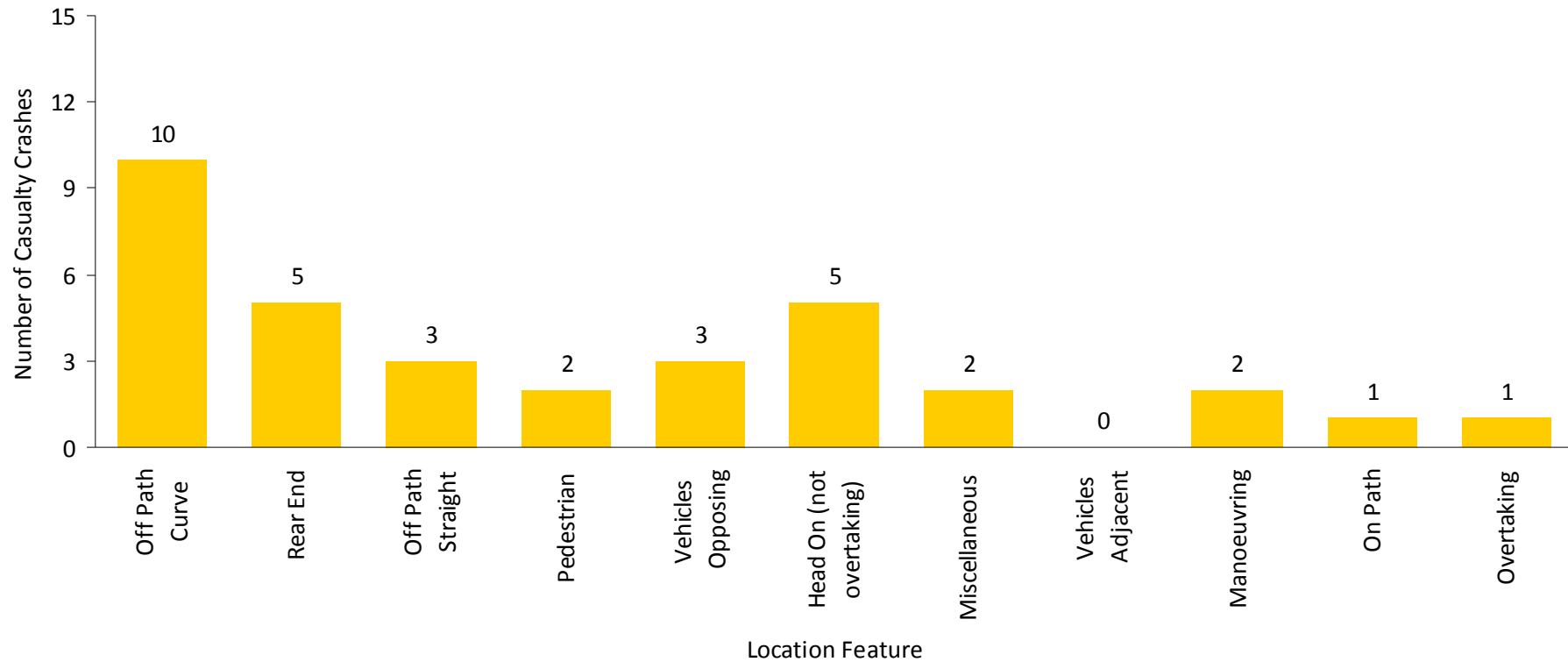
Casualty Crash Characteristics: What 90km/h or above

**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**



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**

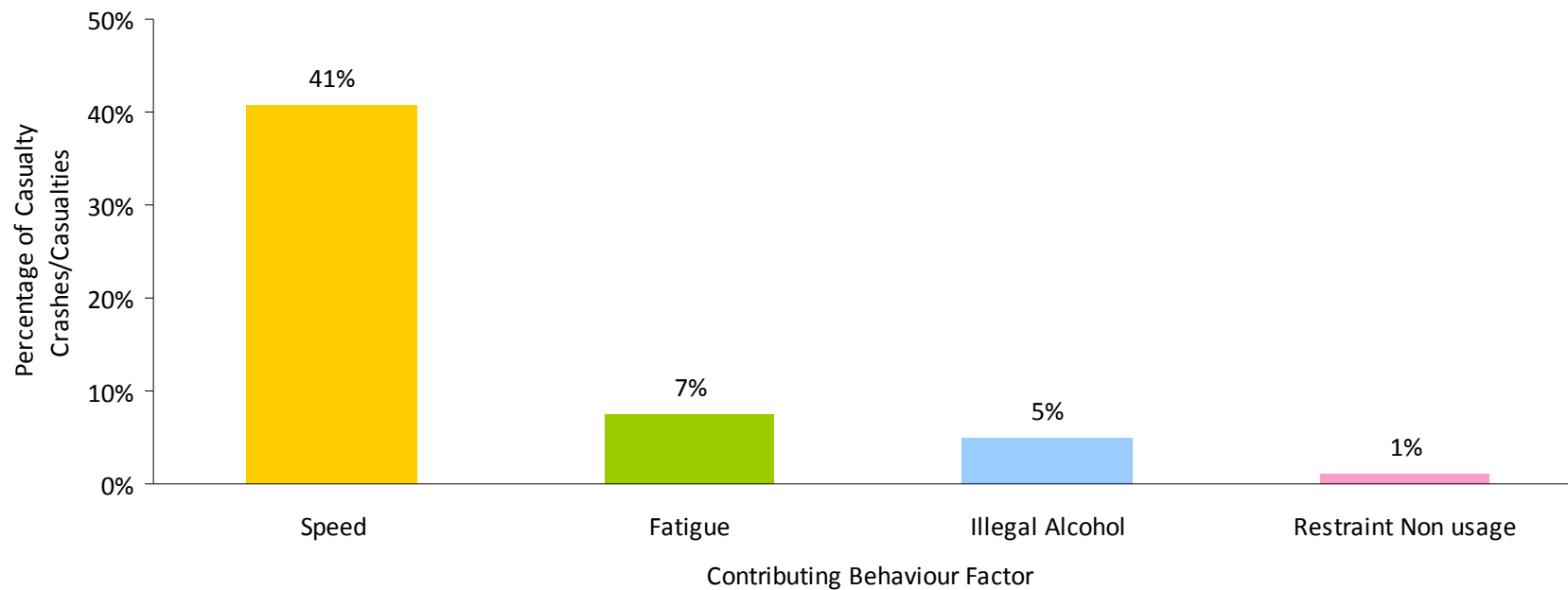


Behavioural Factors

- 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.

Behavioural Factors

Casualty Crashes/Casualties, Waterfall Way
(btw Tyringham St Dorrigo to 10 m west of Pacific Hwy, Raleigh),
2009 to 2013p, Contributing Behaviour Factors



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.