

15 October 2020

REF NUMBER: IR-01-20-26138

M.R.M

fyi-request-13675-444f764f@requests.fyi.org.nz

Dear M.R.M

I refer to your Official Information Act request dated 5 September 2020 for information relating to low level speed enforcement.

You requested:

1. In a newspaper article (refer https://www.stuff.co.nz/national/122652835/top-cop-says-no-change-on-speed--but-history-proves-otherwise) it was stated that police are targeting that bracket of 1 to 10kmh above the posted speed limit as research showed that by targeting the average mean speed, it would reduce crashes. Please provide me with copies of the research that the police relied upon when a) deciding to target the above quoted bracket of drivers, and b) commenting to the media as also above quoted.

Speeding, including speed limit exceedance and inappropriate driving speed, is a well-studied aspect of road safety; large scale international reviews have concluded it to be the primary source of traffic-related mortality [1,2]. Speed has the greatest impact on the outcome of any crash, such as whether you survive it, or how severe the injuries are if you do.

Evidence shows us there is an exponential relationship between speed and the risk of fatal crashes. This means that as speed increases, fatal crash risk increases by a proportionally greater amount. For example when mean (average) driving speeds reduce by a modest 5 km/h, this reduces fatal crash risk by a substantial 28% [2,3]. If all drivers slow down and drive within the speed limits, safety will significantly improve.

There are a number of studies that have shown a high proportion of speed-related risk is attributable to lower-end excess speeds, because these excess driving speeds are more common in the driving population [4]. There is also evidence that speeding at both lower and higher-end excess speeds reduce when police enforcement is also applied to lower excess speeds [5]. Police aims to reduce speeding across the board, and bring mean speeds down, by reminding drivers that routine speeding is not acceptable and in doing so will make our roads safer.





Attached to this letter I have provided reference to some of the literature on the role of speed in road safety outcomes, and the role of speed enforcement in managing driver speeds and behaviour.

Please also note the comments I made in the recently published article was a reminder that there is no threshold for exceeding the speed limit. The speed limit is the speed limit and all drivers should comply with speed limits. There has been no change in policy.

You have the right, under section 28 (3) of the Official Information Act 1982, to ask the Ombudsman to review my decision if you are not satisfied with the way I have responded to your request.

Yours sincerely

Acting Superintendent Gini Welch

National Manager

National Road Policing Centre



Cited:

- Aigner-Breuss, E., Braun, E., Eichhorn, A., & Kaiser, S. (2017). Speed of Traffic, European Road Safety Decision Support System, developed by the H2020 project SafetyCube. Retrieved from www.roadsafety-dss.eu
- 2. International Transport Forum. (2018). Speed and Crash Risk (Research report) (pp. 1–82). International Transport Forum.
- 3. World Health Organization. (2017). Managing speed. Geneva, Switzerland: World Health Organization.
- 4. Greaves, S. P., & Ellison, A. B. (2011). Personality, risk aversion and speeding: An empirical investigation. Accident Analysis and Prevention, 43(5), 1828–1836. https://doi.org/10.1016/j.aap.2011.04.018
- van Lamoen, N. K. (2014). The impacts of a reduced speed enforcement tolerance threshold on road safety outcomes. In Proceedings of the 2014 Australasian Road Safety Research, Policing & Education Conference. Melbourne, Australia. Retrieved from http://acrs.org.au/files/arsrpe/full-paper_1947.pdf

For further reading:

Adminaité-Fodor, D., & Jost, G. (2019). Reducing speeding in Europe (No. PIN Flash 36). Retrieved from European Transport Safety Council website: https://etsc.eu/wp-content/uploads/PIN-flash-report-36-Final.pdf

Blackwell, R., Zanker, S., & Davidson, J. (2017). Understanding low-level speeders to increase speed compliance via road safety campaigns. Journal of the Australasian College of Road Safety, 28(2), 47–55.

Cameron, M. (2013). Use of Kloeden et al's relative risk curves and confidence limits to estimate crashes attributable to low and high level speeding. Journal of the Australasian College of Road Safety, 24(3), 40–52.

Cameron, M. (2015). Estimating crashes attributable to low and high level speeding: Melbourne compared with Perth and urban Queensland. Journal of the Australasian College of Road Safety, 26(3), 19–32.

Elvik, R. (2012). Speed Limits, Enforcement, and Health Consequences. Annual Review of Public Health, 33(1), 225–238. https://doi.org/10.1146/annurev-publhealth-031811-124634

Elvik, R. (2013). A re-parameterisation of the Power Model of the relationship between the speed of traffic and the number of accidents and accident victims. Accident Analysis and Prevention, 50, 854–860. https://doi.org/10.1016/j.aap.2012.07.012

Elvik, R., Vadeby, A., Hels, T., & van Schagen, I. (2019). Updated estimates of the relationship between speed and road safety at the aggregate and individual levels. Accident Analysis And Prevention, 123, 114–122. https://doi.org/10.1016/j.aap.2018.11.014

Gavin, A., Walker, E., Fernandes, R., Graham, A., Job, R. S., & Sergeant, J. (2011). Creation and validation of a tool to measure the real population risk of speeding. Proceedings of the Australasian Road Safety Research, Policing and Education Conference.

Retrieved from http://casr.adelaide.edu.au/rsr/RSR2011/6BPaper%20002%20Gavin.pdf

Gavin, A., Walker, E., Murdoch, C., Graham, A., Fernandes, R., & Job, R. F. S. (2010). Is a focus on low level speeding justified? Objective determination of the relative



contributions of low and high level speeding to the road toll. Retrieved from http://zanran_storage.s3.amazonaws.com/www.rsconference.com/ContentPages/909393 619.pdf

Luoma, J., Rajamäki, R., & Malmivuo, M. (2012). Effects of reduced threshold of automated speed enforcement on speed and safety. Transportation Research Part F: Traffic Psychology and Behaviour, 15(3), 243–248. https://doi.org/10.1016/j.trf.2012.01.002

