

Possible Future Tyre Noise limits

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Presentation informal doc GRB-61-03

Content

- Noise in Europe, 2014
- Benefits better tyres
- Current tyre noise limits
- Costs and Benefits
- GRB

Noise in Europe 2014, EEA

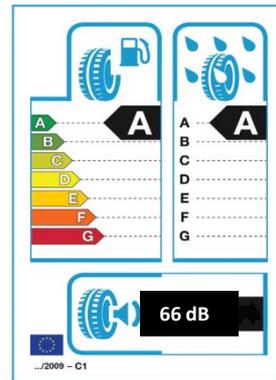
- 25% of EU citizens over 55 dB (WHO threshold)
- Environmental noise is linked to 10,000 premature deaths a year in EU
- Road traffic is the main source of noise in Europe
- <http://www.eea.europa.eu/publications/noise-in-europe-2014>

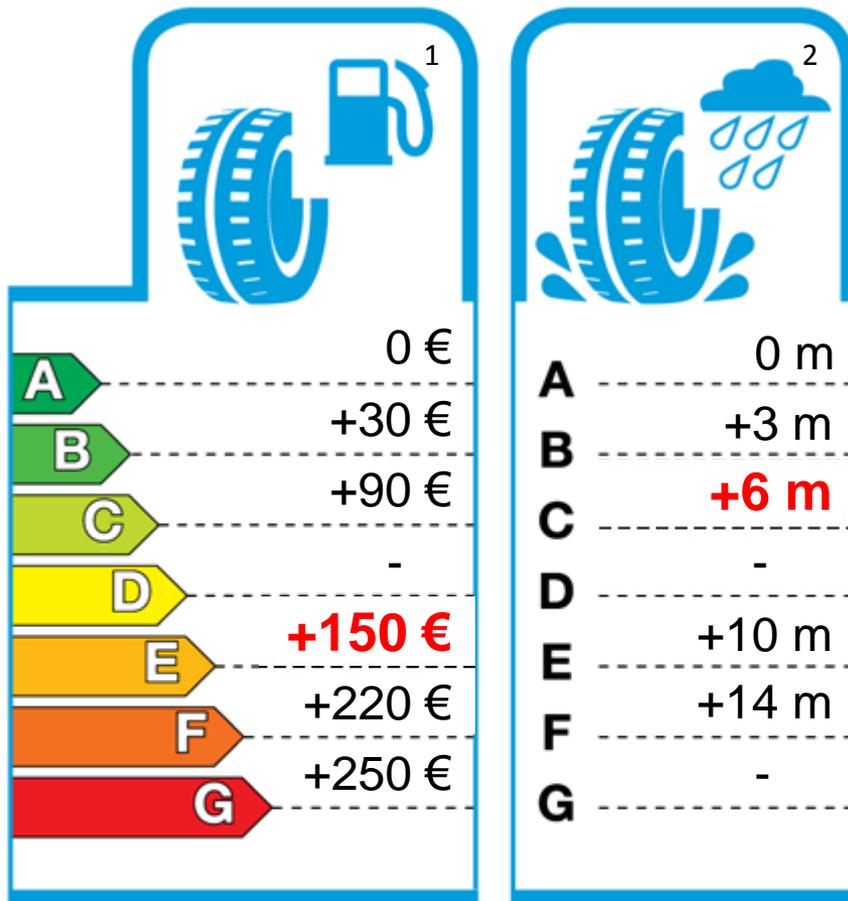
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***Triple-A* tyres – benefits for environment, noise, safety and economy**

Results of 'Potential benefits of Triple-A tyres in the Netherlands' and the EU, a study performed by order of the Dutch Ministry of Infrastructure & Environment





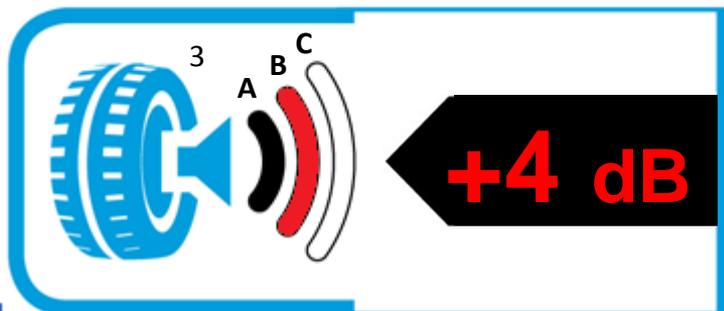
¹ Extra fuel costs per year (17000 km/yr)

² Extra braking distance wet road at 80 km/h (Braking distance A=27 m)

³ Noise*

- A: 2 times as quiet
- B: average
- C: 2 times as loud

* Doubling noise is 3 dB

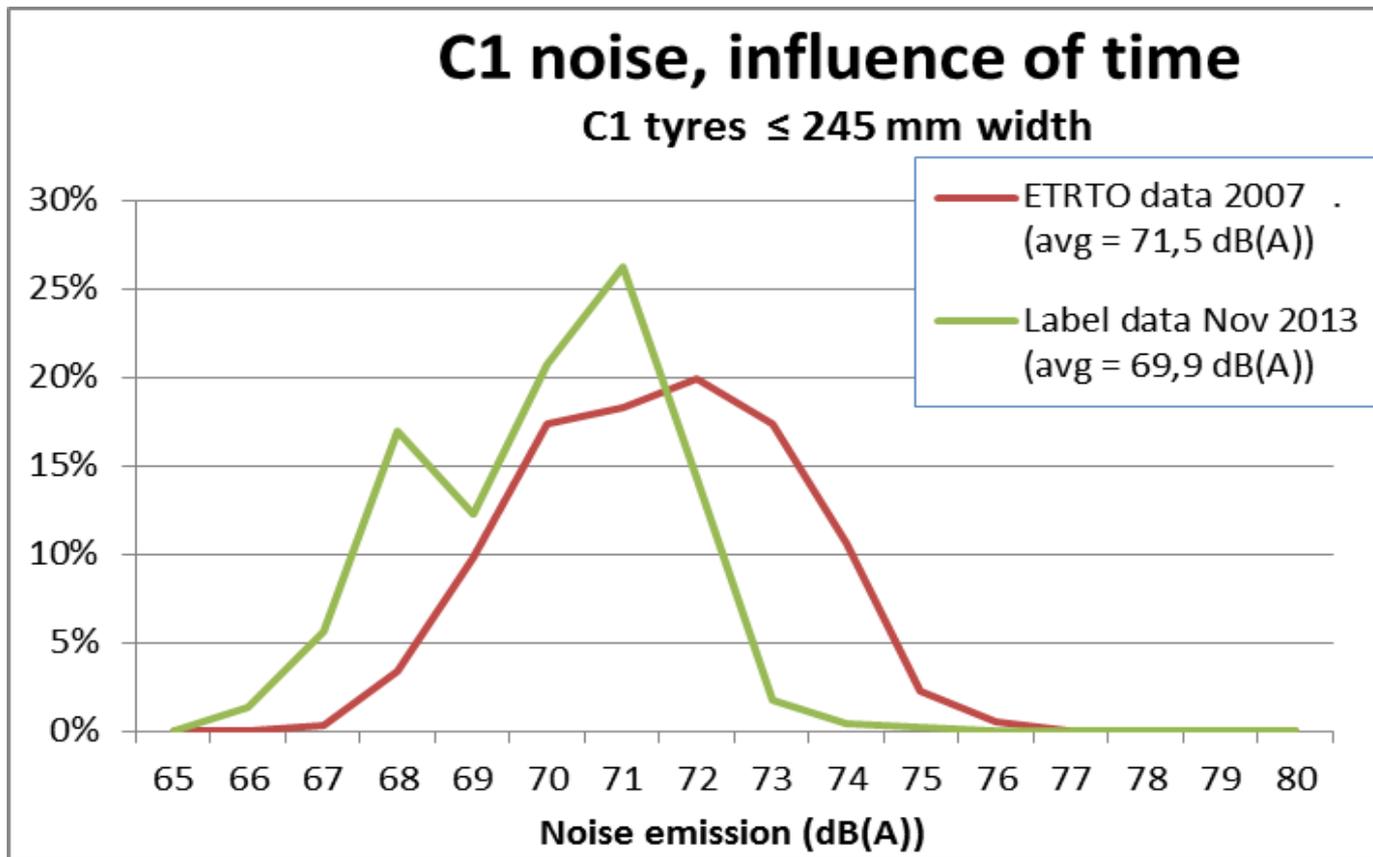


Potential benefits in the EU	Energy	Safety	Noise	TOTAL
Annual fuel savings [billion l]	17	-	-	17
Annual CO ₂ reduction [MtCO ₂]	42	-	-	42
Reduced number of fatalities	-	2567	-	2567
Reduced number of serious injuries	-	12353	-	12353
Reduced number of slight injuries	-	19631	-	19631
Reduced number of highly annoyed people [millions]	-	-	8.2	8.2
Reduced number of annoyed people [millions]	-	-	13.0	13.0
Reduced number of highly sleep disturbed people [millions]	-	-	3.4	3.4
Reduced number of sleep disturbed people [millions]	-	-	6.1	6.1
Annual cost savings [billion €]	13	10	11	34

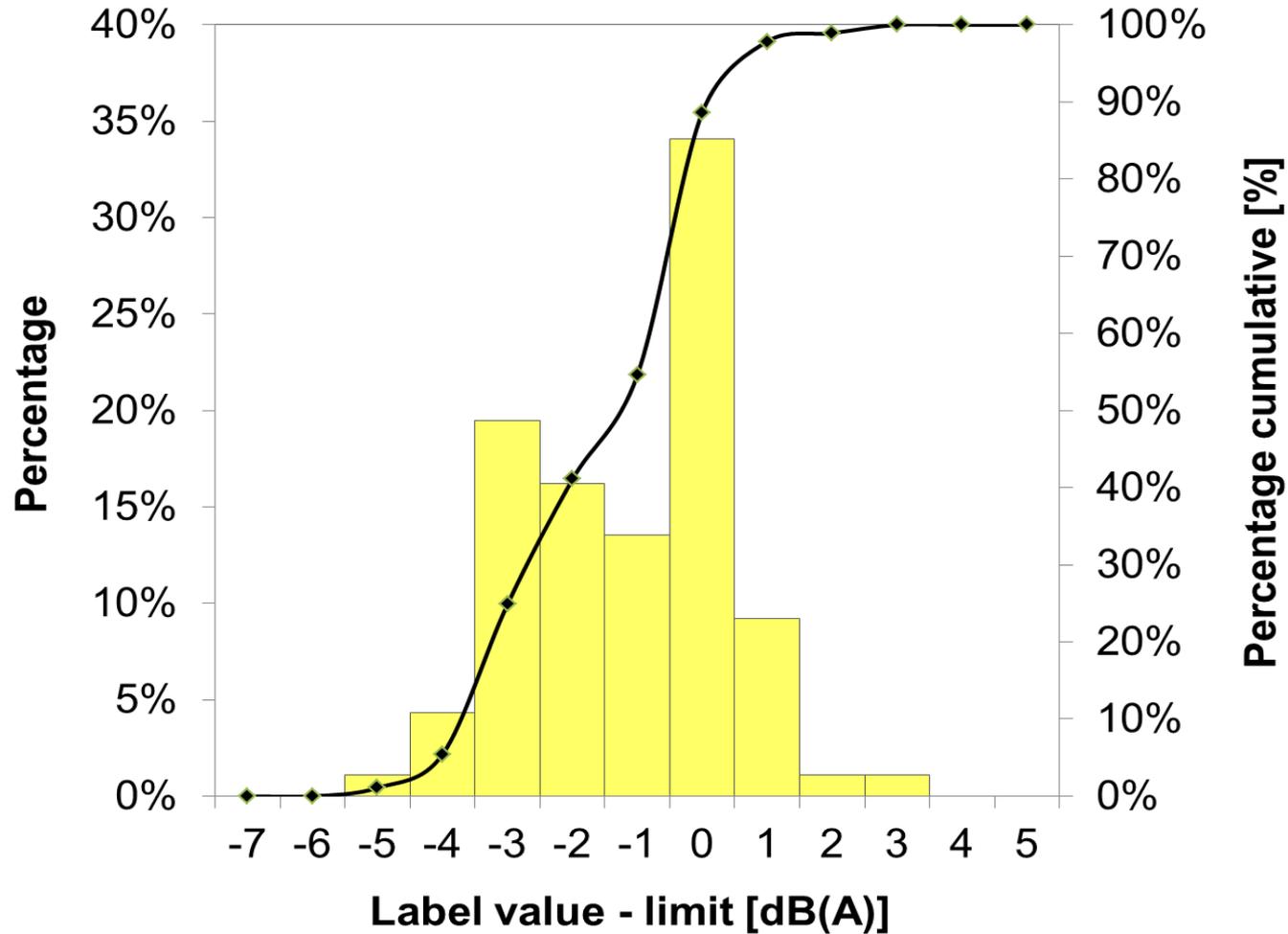
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Tyre noise limits, Evaluation based on sold Tyres in the Netherlands



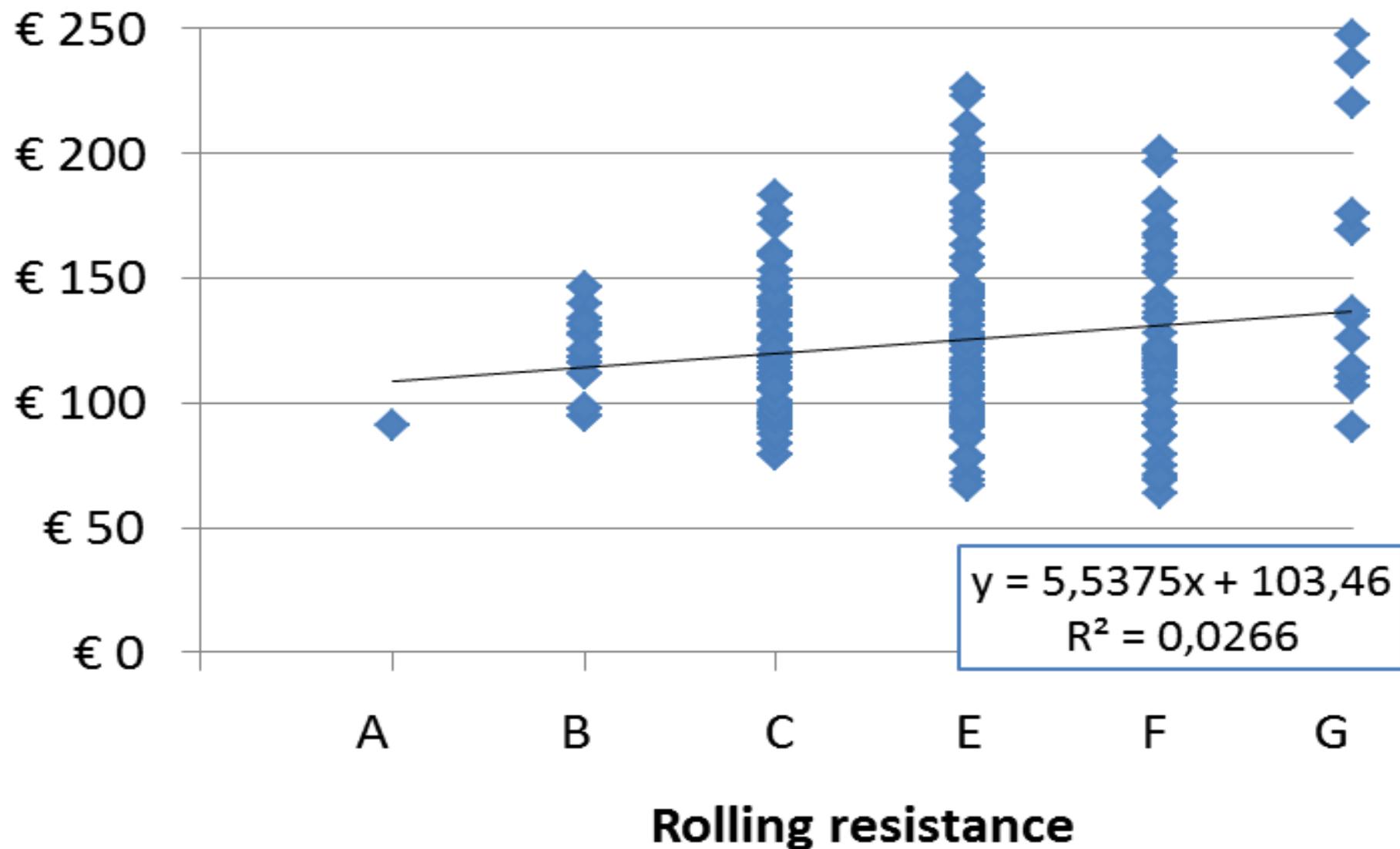
C1A tyres (≤ 185) noise, relative to limit data from 2013 label database



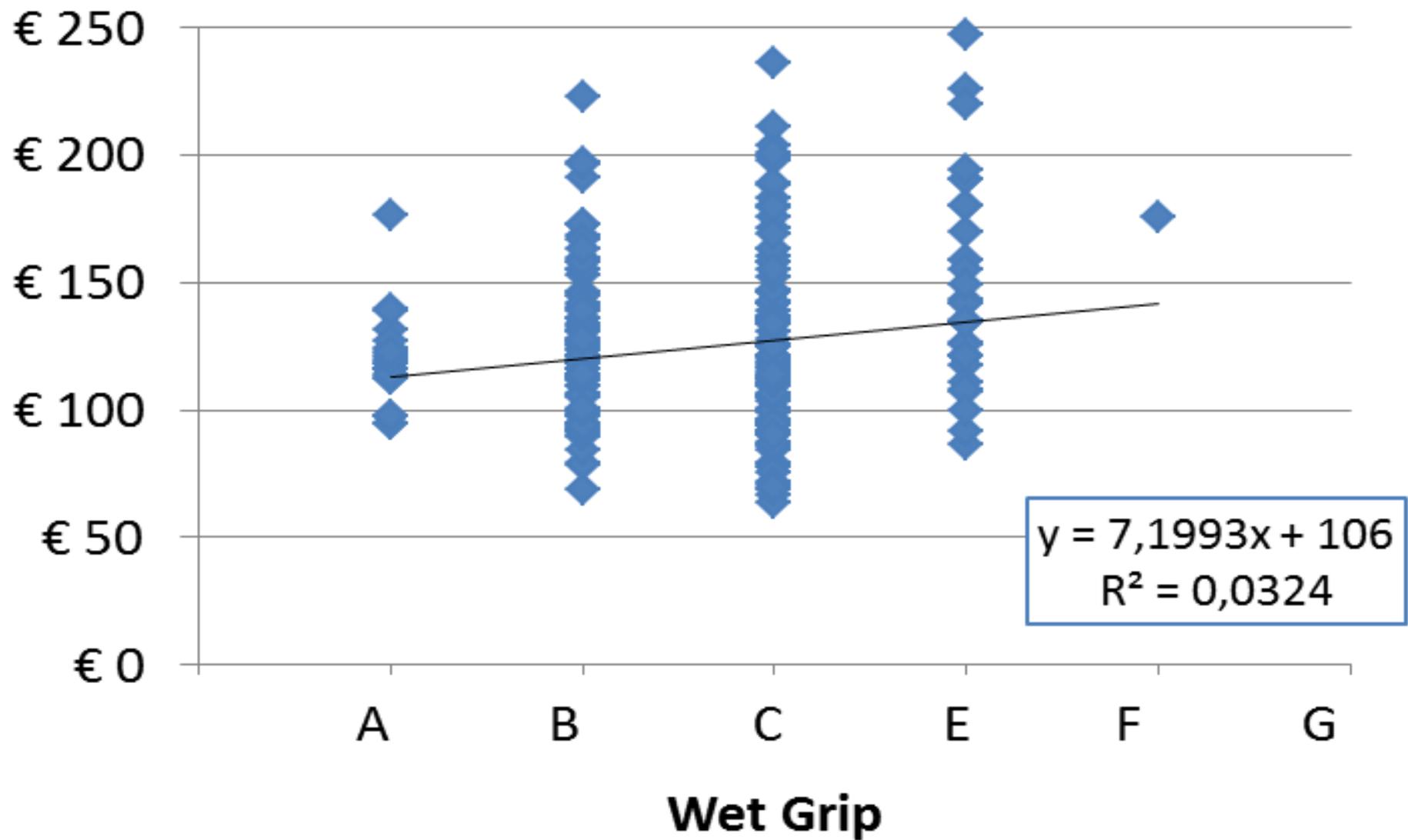
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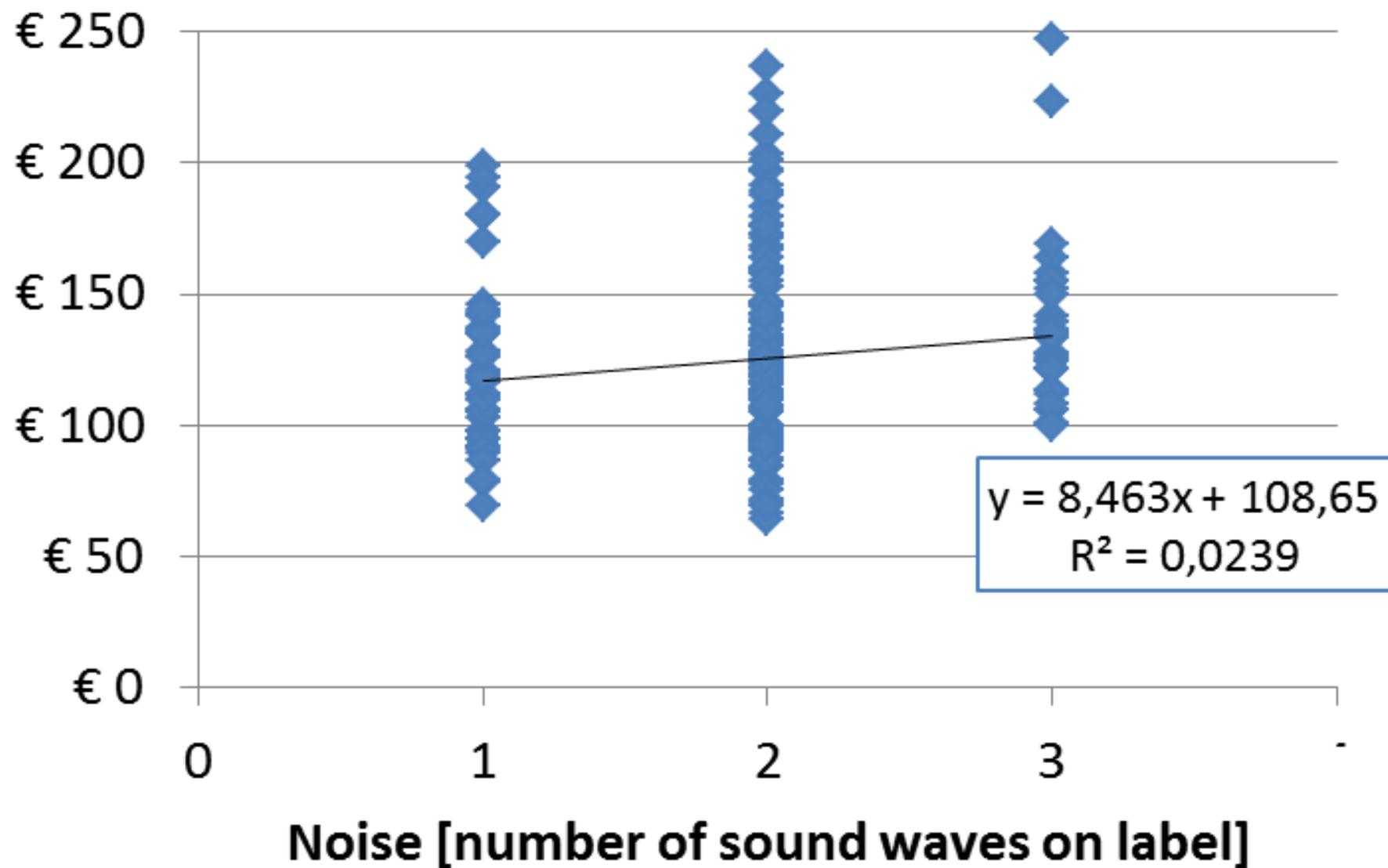
Rolling resistance



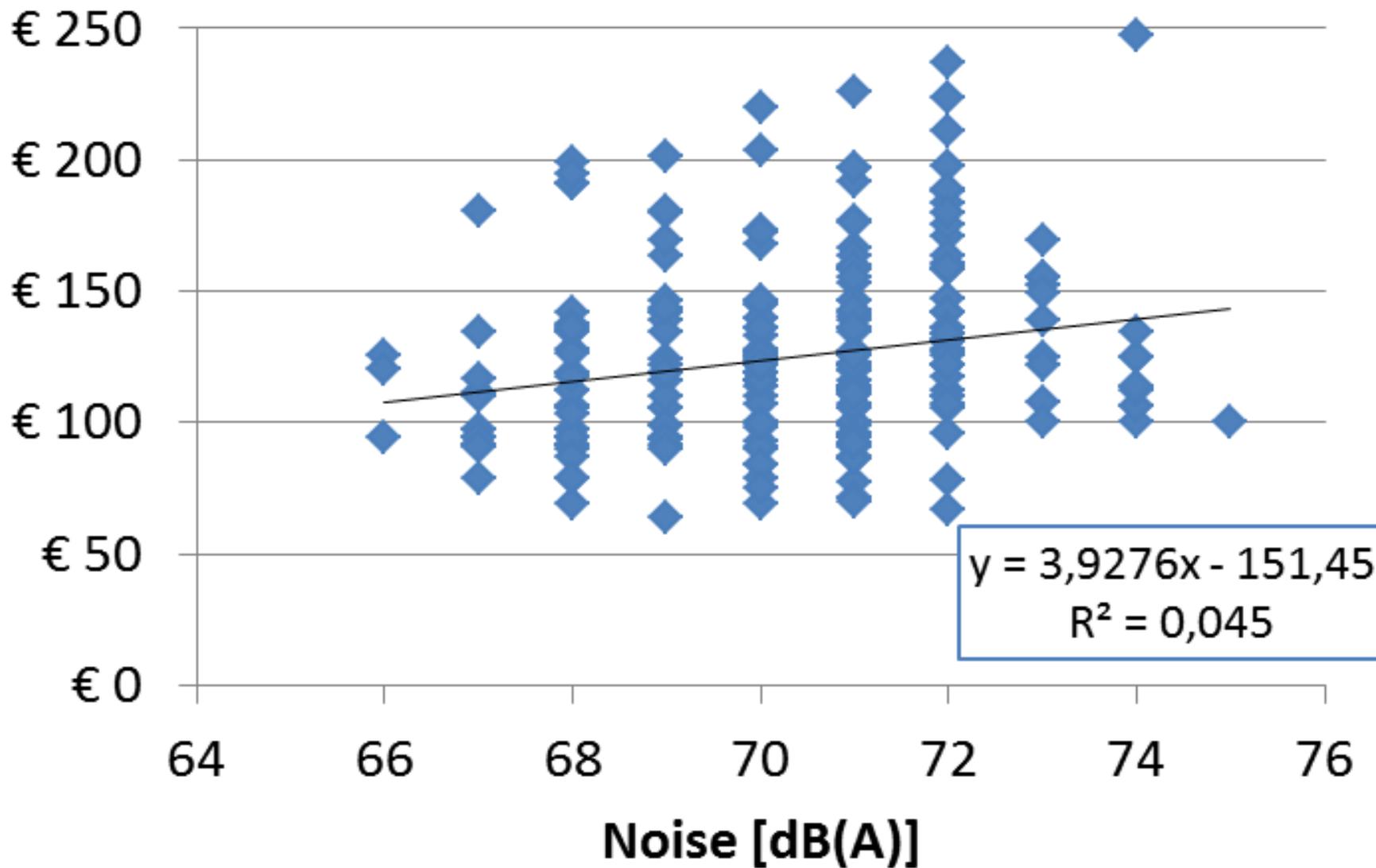
Wet Grip



Noise (class)



Noise (dB(A))



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GRB

- Better tyres have major benefits
- Better tyres are widely available
- Better tyres do not cost more
- Momentum and time
- Potential amendments to Regulation R117