



[illegible]

source: TREMOD 6.02 <sup>2)</sup>

++ Images: Overview annual mileage for considered vehicle types [gallery size="medium"](#) :  
AD Mileage.png : AD Mileage el.png [gallery](#)

## Discussion of emission trends

Please see sub-category chapters [1.A.3.b vi - Automobile Tyre and Brake Wear](#) and [1.A.3.b vii - Automobile Road Abrasion](#) .

## Recalculations

Recalculations were carried out due to a fundamental revision of the TREMOD software.

Table 2: Revised mileage data , in  $10^{66}$  kilometers

[illegible]

<b>Submission 2020</b>														
<b>absolute change</b>														
<b>relative change</b>														
<b>HVDs: Trucks</b>														
<b>Submission 2021</b>														
<b>Submission 2020</b>														
<b>absolute change</b>														
<b>relative change</b>														
<b>HVDs: Buses</b>														
<b>Submission 2021</b>														
<b>Submission 2020</b>														
<b>absolute change</b>														
<b>relative change</b>														
<b>Motorcycles &amp; Mopeds</b>														
<b>Submission 2021</b>														
<b>Submission 2020</b>														
<b>absolute change</b>														
<b>relative change</b>														
<b>REVISED TOTAL MILEAGE</b>														
<b>Submission 2021</b>														
<b>Submission 2020</b>														
<b>absolute change</b>														
<b>relative change</b>														

For changes in the **emission factors** applied, please refer to the sub-ordinate chapters on **tyre and brake wear** and **road abrasion**.

### Emission estimates



For more information on recalculated emission estimates for Base Year and 2018, please see the pollutant specific recalculation tables following chapter [8.1 - Recalculations](#).

## Planned improvements

Besides the **routine revision of the TREMOD model**, no specific improvements are planned.

## FAQs

[bibliography](#) : 1 : Knörr et al. (2019a): Knörr, W., Heidt, C., Gores, S., & Bergk, F.: ifeu Institute for Energy and Environmental Research (Institut für Energie- und Umweltforschung Heidelberg gGmbH, ifeu): Fortschreibung des Daten- und Rechenmodells: Energieverbrauch und Schadstoffemissionen des motorisierten Verkehrs in Deutschland 1960-2030, sowie TREMOD, im Auftrag des Umweltbundesamtes, Heidelberg & Berlin, 2019. : 2 : EMEP/EEA, 2019: EMEP/EEA air pollutant emission inventory guidebook – 2019 [bibliography](#)

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<sup>1)</sup> (bibcite 1)

<sup>2)</sup> (bibcite 1)