



## Correction to: Breeding progress of nitrogen use efficiency of cereal crops, winter oilseed rape and peas in long-term variety trials

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### Correction to:

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The overall trends of winter oilseed rape (WOSR) for nitrogen yield and NUE of nitrogen yield in Table 3 and in Fig. 4 are erroneous. The authors are grateful to Christian Flache-necker, Oilseed rape breeder, Norddeutsche Pflanzenzucht, Hohenlieth, for pointing to this error. We apologize for the mistake. The paper should be modified as follows.

On page 4 after the sentence “As only GPC was available in the dataset, nitrogen yield (NYLD) was calculated as N in kg ha<sup>-1</sup> accumulated in grain by NYLD = 100 × GYLD × (DM/100) × [(GPC/100)/c], where DM is the percent dry matter content in grain and c is the protein equivalent factor,” the following sentences should be added: “For WOSR, GPC and GYLD are given as 91% DM and for PEAS as 86% DM. For WOSR and PEAS NYLD is calculated as NYLD = 100 × GYLD × GPC/c.”

The original article can be found online at <https://doi.org/10.1007/s00122-023-04521-9>.

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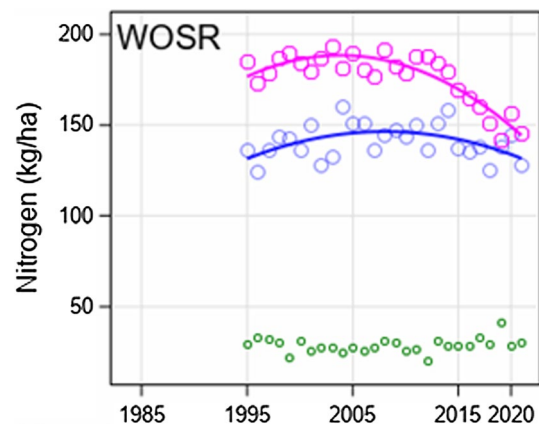
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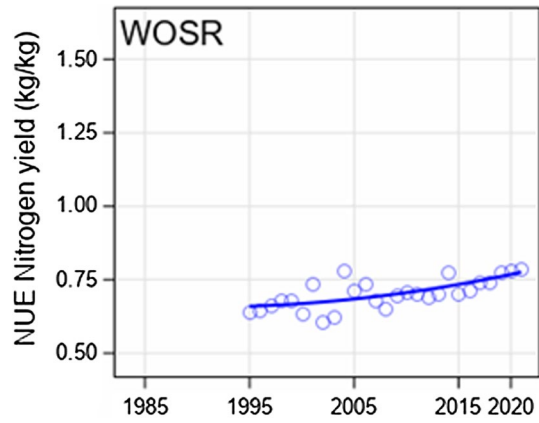
On page 8 the sentence “We found the highest NYLD in WW and PEAS whereas WOSR had a rather low NYLD (about 51 kg ha<sup>-1</sup>.)” should be changed to “We found the highest NYLD in WW and PEAS and the lowest in SB (94.3 kg ha<sup>-1</sup>.)”

In Table 3a, row “Winter oil seed rape” for “Nitrogen yield kg ha<sup>-1</sup>” in columns 1995, 2021, Diff, % and Sign the figures should be read as 131.4, 134.6, 0.1, 0.1 and <sup>ns</sup>, respectively. In Table 3b, row “Winter oil seed rape” for “NUE Nitrogen yield kg kg<sup>-1</sup>”, in columns 1995, 2021, Diff, % and Sign the figures should be read as 0.66, 0.77, 0.12, 17.9 and <sup>\*\*\*</sup>, respectively.

Figure 4a in row panel “Nitrogen (kg/ha)” the plot for WOSR should be replaced by this plot:



In Fig. 4b in row panel “NUE Grain/Oil yield (kg/kg)” the plot for WOSR should be replaced by this plot:



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