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| Interaction between fixed factors No interaction between factors |
| Nutrient Crop Crop residue management Residue fate Tillage type |
| CT-IN CT-OUT RT-IN RT-OUT IN OUT CT RT |
| N [g/kg] WW 2010-11 4.7 ± 0.38 5.38 ± 0.17 5.43 ± 0.1 5.53 ± 0.18 5.06a ± 0.23 5.45a ± 0.12 5.04a ± 0.23 5.48a ± 0.1  WW 2011-12 6 ± 0.22 6.2 ± 0.19 6.25 ± 0.18 7.13 ± 0.31 **6.13b ± 0.14 6.66a ± 0.24 6.10b ± 0.14 6.69a ± 0.23**  Faba 2013 10.88 ± 0.35 13.75 ± 1.13 8.95 ± 0.94 14.3 ± 1.25 **9.91b ± 0.59 14.03a ± 0.79** 12.31a ± 0.77 11.63a ± 1.24  WW 2013-14 5.35 ± 0.29 7.23 ± 0.28 5.78 ± 0.36 6.65 ± 0.32 **5.56b ± 0.23 6.94a ± 0.23** 6.29a ± 0.4 6.21a ± 0.28  Maize 2015 6.6 ± 0.31 6.43 ± 0.53 6.3 ± 0.24 7 ± 0.21 6.45a ± 0.19 6.71a ± 0.29 6.51a ± 0.29 6.65a ± 0.2  P [g/kg] WW 2010-11 0.67 ± 0.05 0.62 ± 0.02 0.6 ± 0.02 0.61 ± 0.03 0.63a ± 0.03 0.62a ± 0.02 0.64a ± 0.03 0.61a  ± 0.02  WW 2011-12 0.91 ± 0.06 1.03 ± 0.05 0.88 ± 0.02 1.08 ± 0.08 **0.89b ± 0.03 1.06a ± 0.04** 0.97a ± 0.04 0.98a ± 0.05  Faba 2013 1.5 ± 0.2 1.41 ± 0.27 1.12 ± 0.13 1.42 ± 0.18 1.31a ± 0.13 1.42a ± 0.15 1.45a ± 0.16 1.27a ± 0.12  WW 2013-14 0.89 ± 0.04 1.12 ± 0.07 0.79 ± 0.03 0.99 ± 0.06 **0.84b ± 0.03 1.06a ± 0.05 1.01a ± 0.06 0.89b ± 0.05**  Maize 2015 0.79 ± 0.03 0.83 ± 0.07 0.93 ± 0.05 0.95 ± 0.04 0.86a ± 0.04 0.89a ± 0.04 **0.81b ± 0.04 0.94a ± 0.03**  K [g/kg] WW 2010-11 2.57 ± 0.19 2.43 ± 0.43 2.84 ± 0.26 2.36 ± 0.28 2.70a ± 0.16 2.40a ± 0.24 2.50a ± 0.22 2.60a ± 0.2  WW 2011-12 7.73 ± 0.67 5.13 ± 0.19 8.5 ± 0.29 5.55 ± 0.23 **8.11a ± 0.37 5.34b ± 0.16** 6.43a ± 0.59 7.02a ± 0.58  Faba 2013 6.04 ± 0.78 4.72 ± 0.16 7.03 ± 0.77 4.05 ± 0.08 **6.54a ± 0.54 4.39b ± 0.15** 5.38a ± 0.45 5.54a ± 0.67  WW 2013-14 1.93 ± 0.01 1.99 ± 0.07 2.03 ± 0.06 1.95 ± 0.07 1.98a ± 0.03 1.97a ± 0.05 1.96a ± 0.03 1.99a ± 0.04  Maize 2015 10.18 ± 1.05 7.77 ± 1.06 10.24 ± 0.51 8.84 ± 0.6 10.21a ± 0.54 8.30a ± 0.68.97a ± 0.83 9.54a ± 0.45 |