

Neonicotinoid concentrations in guttation drops of seed treated maize (*Zea mays*) – field test 2010-2011

Detlef Schenke, Ina Patrizia Wirtz, Stefan Lorenz, Jens Pistorius, Udo Heimbach

In this file we present a dataset of neonicotinoid concentrations in guttation drops of commonly used maize (*Zea mays*) cultivars, germinated from seeds coated with active substances (a.s.): i) imidacloprid (IMD), ii) clothianidin (CTN) and iii) thiamethoxam (THM) over two growing seasons. In one variant clothianidin was applied as seed granule. The trial took place at the experimental fields of the Julius Kühn-Institut in Berlin in 2010 and 2011. The detailed experimental design with description of the study site, sample collection and sample analysis is available in “Two-year field data on neonicotinoid concentrations in guttation drops of seed treated maize (*Zea mays*)” (DOI 10.1016/j.dib.2018.10.006). Data from 2010 are related to a presentation of “Pesticides in guttation droplets following seed treatment – field studies” presented at the SETAC North America 32nd Annual Meeting conference (Schenke et al., 2011, pp 124-125, ISSN 1087-8939) and only some figures were used in the “Scientific opinion on the science behind the development of a risk assessment of plant protection products on bees (*Apis mellifera*, *Bombus* spp. and solitary bees)” (EFSA J. 2012, 10 (5), 2668). Only parts of the data from 2011 was presented in relation to the “Exposure of Coccinellidae to guttation droplets on maize seedlings with seed or granule treatment of neonicotinoids” (Schenke et al., 2014, 13th IUPAC International Congress of Pesticide Chemistry, DOI10.5073/jki.poster.2017.004).

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