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TARMI, SANNA, TUURI, HANNU, HELENIUS, JUHA, Plant communities of field boundaries in Finnish farmland

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Abstract

To determine the importance of field boundary habitats for farmland biodiversity, we surveyed a total of 193 boundaries from for and agriculturally dissimilar regions in Finland. We measured the current plant species richness and composition of the boundar on the differences in vegetation characteristics, we describe six boundary types. The observed plant species were mainly indicated to wet soils and moderate to rich mineral nitrogen content. The most frequent species were tall, perennial monocots and dicots high productivity of thevegetation. Moreove, herbicide-tolerant species were common. No species rare for Finland were found. In husbandry regions, the most frequent species were sown grassland species and typical grassland weeds. In cereal production reg spreading root weeds tolerant of herbicides were the most frequent. Mean species richness was highest in the cluster Ca-lamagra (24 species (s)/boundary (b)), which we considered as representative of moist sites with some disturbance by agricultural prace species-poor were the clusters Elymus-Anthriscus (14 s/b) and Elymus-Cirsium (16 s/b), both found predominantly in cereal product southern Finland. Our results suggest that the biodiversity value of boundaries is lowest in the most intensive cereal product highest in areas of mixed farming.

Contact sanna. tarmi@helsinki.fi

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