

## The Swedish Bird Survey – large-scale systematic citizen science biodiversity data (to be re-used)

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### **Abstract**

The Swedish Bird Survey has carried out standardized bird monitoring in Sweden for 40+ years, as a part of the national monitoring programme of the Swedish Environmental Protection Agency and the Regional County Boards of Sweden. Birds are counted yearly according to strict protocols. The newest scheme, the Fixed routes (line transects), started in 1996 and provide annual data from 716 routes spread systematically over Sweden. In this way the largest habitats (e.g. forest, farmland, and mountains) are covered in a representative way. Around 500 routes are counted annually. In 2015, 144 000 birds of 222 species were observed by 232 different observers walking ~4000 km of transects. Although primarily used for producing population trends, the very strict sampling protocol makes the data easy to use and suitable for many types of scientific analyses. Some examples are given of how the data have been analysed for both species and community responses to climate and habitat change. The data are freely available upon request.