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### The Swiss agri-environment scheme enhances pollinator diversity and plant reproductive success in nearby intensively managed farmland.

Albrecht M, Duelli P, ..., Kleijn D, Schmid B

*J Appl Ecol* 2007 **44**:813-822 [[full text](#)]

Selected by | Niklaus Ammann

Evaluated 20 Jul 2007

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### Faculty Member

#### Niklaus Ammann

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PLANT BIOLOGY

New Finding

### Comments

**Ecological compensation areas (ECAs) in managing meadows attempt to counteract the loss of biodiversity and associated ecosystem services such as pollination and natural pest control in agro-ecosystems; however, this has only been tested in a few studies against nearby intensively managed meadow (IM) areas. In this study, the authors test this with the following parameters: species richness and abundance, and the reproductive success of selected plants.** They find that hoverflies, solitary bees and large-sized pollinators, such as social bees and butterflies had a significantly higher species richness and abundance in ECA than in adjacent IM areas, and that they were not significantly affected by increasing distance from the from ECA, unlike small-sized pollinators, whose species richness and abundance declined significantly with increased distance. Of the plants studied, seeds of both *Raphanus sativus* and *Campanula glomerata* were shown to be heavier and produced in greater numbers in ECA than in IM, data that were positively correlated with species richness and abundance of bees; however, individual plants of *Hypochaeris radicata* showed no such effect.

Competing interests: None declared

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## Faculty Comments

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