Crops are known to be frequently attacked by a large diversity of aphid species. Beneficial species are a solution to regulate such pests. The number of most abundant aphidophagous predator species in agrosystems is low. Among Coccinellidae, the Multicolored Asian ladybeetle Harmonia axyridis (Pallas) (Coleoptera: Coccinellidae) was introduced into Western Europe in the late 1990s to control aphid populations. This exotic and invasive species is known to be a voracious predator of native aphidophages. We describe the trophic relationships around H. axyridis existing between the community of aphids and their natural predators species in agroecosystems in Belgium. Quantitative food webs were set up from data collected in 2010 and 2011 in four agronomical important crops (broad bean, corn, potato and wheat).

**Material and Methods**
- Predator species sampling from 2010 to 2011
- Observation period: March to September
- Crops: wheat, broad bean, corn and potato
- Sampling method: yellow traps, each week
- Determination and counting of aphidophagous species (adults) and aphid species

**Results**

**Introduction**

**Food-web including Harmonia axyridis Pallas (Coleoptera: Coccinellidae) in field crops**

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A total of 21 predator species was recorded in this study and 11 species were common to the four crops. The aphid community was composed of 28 species among which 16 species were observed in the four crops. The community of aphidophagous species around H. axyridis seems to be similar in the different studied crops despite the higher density of the alien species in broad bean and potato. Predator diversity varied between crops but five species were always more abundant in agroecosystems: H. axyridis, C. septempunctata, P. quatuordecimpunctata, C. carnea and E. balteatus. Connectance varied from 0.22 in broad bean to 0.36 in wheat. Finally, food webs highlight that both communities of aphid and predator species are well diversified and well connected.