

# Long term monitoring in Switzerland reveals that *Adalia bipunctata* strongly declines in response to *Harmonia axyridis* invasion

Marc Kenis, Saidou Nacambo, Johan Van Vlaenderen, Renate Zindel and René Eschen

Table S1. Characteristics of the ladybird collection sites in the four habitats.

Locality (canton)*	Years of collection	Habitat type	Main tree and shrub genera	Coordinates (°, N / E)	Elevation (m a.s.l.)
Bure (JU)	2006-2017	Broadleaved hedge	<i>Carpinus</i> , <i>Acer</i> , <i>Euonymus</i> , <i>Quercus</i> , <i>Prunus</i> , <i>Corylus</i> , <i>Cornus</i>	47.4549 / 7.0038	540
Cornol (JU)	2006-2017	Broadleaved hedge	<i>Corylus</i> , <i>Prunus</i> , <i>Salix</i> , <i>Populus</i> , <i>Acer</i> , <i>Cornus</i>	47.4023 / 7.1493	520
Bonfol (JU)	2006-2017	Broadleaved hedge	<i>Cornus</i> , <i>Prunus</i> , <i>Euonymus</i> , <i>Alnus</i> , <i>Fraxinus</i> , <i>Salix</i> , <i>Corylus</i> , <i>Quercus</i>	47.4683 / 7.1565	440
Chevenez (JU)	2006-2017	Broadleaved hedge	<i>Corylus</i> , <i>Prunus</i> , <i>Crataegus</i> , <i>Salix</i> , <i>Euonymus</i> , <i>Acer</i> , <i>Sambucus</i>	47.3963 / 7.0151	470
Lugnez (JU)	2006-2017	Broadleaved hedge	<i>Corylus</i> , <i>Euonymus</i> , <i>Prunus</i> , <i>Sambucus</i> , <i>Cornus</i>	47.4883 / 7.0850	420
Bourrignon (JU)	2006-2017	Broadleaved hedge	<i>Acer</i> , <i>Fraxinus</i> , <i>Fagus</i> , <i>Prunus</i> , <i>Corylus</i> , <i>Cornus</i> , <i>Tilia</i>	47.3825 / 7.2662	860
Delémont (JU)	2006-2017	Broadleaved hedge	<i>Carpinus</i> , <i>Corylus</i> , <i>Crataegus</i> , <i>Salix</i> , <i>Pyrus</i> , <i>Quercus</i>	47.3574 / 7.3363	420
Zwingen (BL)	2006-2017	Broadleaved hedge	<i>Aesculus</i> , <i>Euonymus</i> , <i>Salix</i> , <i>Fraxinus</i> , <i>Cornus</i> , <i>Juglans</i> , <i>Quercus</i> , <i>Populus</i>	47.4344 / 7.5235	340
Bubendorf (BL)	2006-2017	Broadleaved hedge	<i>Corylus</i> , <i>Crataegus</i> , <i>Acer</i> , <i>Prunus</i> , <i>Fraxinus</i> , <i>Carpinus</i>	47.4369 / 7.7277	400
Nenzlingen (BL)	2006-2017	Broadleaved hedge	<i>Prunus</i> , <i>Crataegus</i>	47.4415 / 7.5627	340
Aesch (BL)	2006-2017	Broadleaved hedge	<i>Corylus</i> , <i>Fagus</i> , <i>Cornus</i> , <i>Quercus</i> , <i>Acer</i>	47.4680 / 7.5867	330
Muttenz (BL)	2006-2017	Broadleaved hedge	<i>Corylus</i> , <i>Acer</i> , <i>Forsythia</i> , <i>Salix</i>	47.5392 / 7.6354	280
Augst (BL)	2006-2017	Broadleaved hedge	<i>Crataegus</i> , <i>Prunus</i> , <i>Cornus</i>	47.5286 / 7.7280	300
Ettingen (BL)	2006-2017	Broadleaved hedge	<i>Crataegus</i> , <i>Cornus</i> , <i>Lonicera</i> , <i>Sambucus</i> , <i>Prunus</i> , <i>Euonymus</i> , <i>Acer</i>	47.4856 / 7.5609	350
Riehen (BS)	2006-2013	Broadleaved hedge	<i>Syringa</i> , <i>Corylus</i> , <i>Acer</i> , <i>Rosa</i>	47.5924 / 7.6451	270
Füllinsdorf (BL)	2015-2017	Broadleaved hedge	<i>Acer</i> , <i>Corylus</i> , <i>Fagus</i> , <i>Crataegus</i> , <i>Prunus</i>	47.5161 / 7.7332	400
Bure (JU)	2006-2017	Meadow	n/a	47.4546 / 7.0034	530
Cornol (JU)	2006-2017	Meadow	n/a	47.4023 / 7.1493	520
Bonfol (JU)	2006-2017	Meadow	n/a	47.4686 / 7.1564	440
Chevenez (JU)	2006-2017	Meadow	n/a	47.3960 / 7.0154	470
Lugnez (JU)	2006-2017	Meadow	n/a	47.4881 / 7.0846	420
Develier (JU)	2006-2017	Meadow	n/a	47.3568 / 7.3002	460
Pleigne (JU)	2006-2017	Meadow	n/a	47.4030 / 7.2943	790
Zwingen (BL)	2006-2017	Meadow	n/a	47.4346 / 7.5233	340
Nenzlingen (BL)	2006-2017	Meadow	n/a	47.4416 / 7.5625	340

Muttenz (BL)	2006-2017	Meadow	n/a	47.5392 / 7.6354	280
Rheinfelden (AG)	2006-2013	Meadow	n/a	47.5459 / 7.7594	280
Bettingen (BS)	2006-2013	Meadow	n/a	47.5118 / 7.6582	360
Riehen (BS)	2006-2013	Meadow	n/a	47.5921 / 7.6454	270
Biel-Benken (BL)	2006-2013	Meadow	n/a	47.5081 / 7.5358	330
Zunzgen (BL)	2006-2011	Meadow	n/a	47.4425 / 7.8085	410
Bubendorf (BL)	2012-2017	Meadow	n/a	47.4363 / 7.7277	400
Aesch (BL)	2015-2017	Meadow	n/a	47.4677 / 7.5870	325
Ettingen (BL)	2015-2017	Meadow	n/a	47.4856 / 7.5609	350
Augst (BL)	2015-2017	Meadow	n/a	47.5285 / 7.7283	300
Föllinsdorf (BL)	2015-2017	Meadow	n/a	47.5161 / 7.7330	400
Lajoux (JU)	2007-2017	Spruce	<i>Picea abies</i>	47.2644 / 7.1080	1000
Les Genevez (JU)	2007-2017	Spruce	<i>Picea abies</i>	47.2497 / 7.1372	1050
Le Bémont (JU)	2007-2017	Spruce	<i>Picea abies</i>	47.2493 / 7.0629	1020
Montfaucon (JU)	2007-2017	Spruce	<i>Picea abies</i>	47.2776 / 7.0421	1000
Develier (JU)	2007-2017	Spruce	<i>Picea abies</i>	47.3697 / 7.2809	640
Soyhières 1 (JU)	2007-2017	Pine	<i>Pinus sylvestris</i>	47.3914 / 7.3839	400
Soyhières 2 (JU)	2007-2017	Pine	<i>Pinus sylvestris</i>	47.3892 / 7.3695	400
Liesberg (BL)	2007-2017	Pine	<i>Pinus sylvestris</i>	47.3953 / 7.4323	400
Vicques (JU)	2007-2017	Pine	<i>Pinus sylvestris</i>	47.3674 / 7.4353	570
St-Brais (JU)	2007-2017	Pine	<i>Pinus sylvestris</i>	47.3091 / 7.1220	950

\*Canton: BL: AG: Aargau; Basel-Landschaft; BS: Basel-Stadt; JU: Jura.