Supporting Information

Supplementary Figure

Figure S1: Experimental design showing three blocks (i.e. reps), plots (i.e., farming systems), and split plots (i.e., crops) at Fort Ellis Experimental center, Bozeman, MT. The experiment was conducted between 2013 and 2017. See texts for the details of crop rotation.

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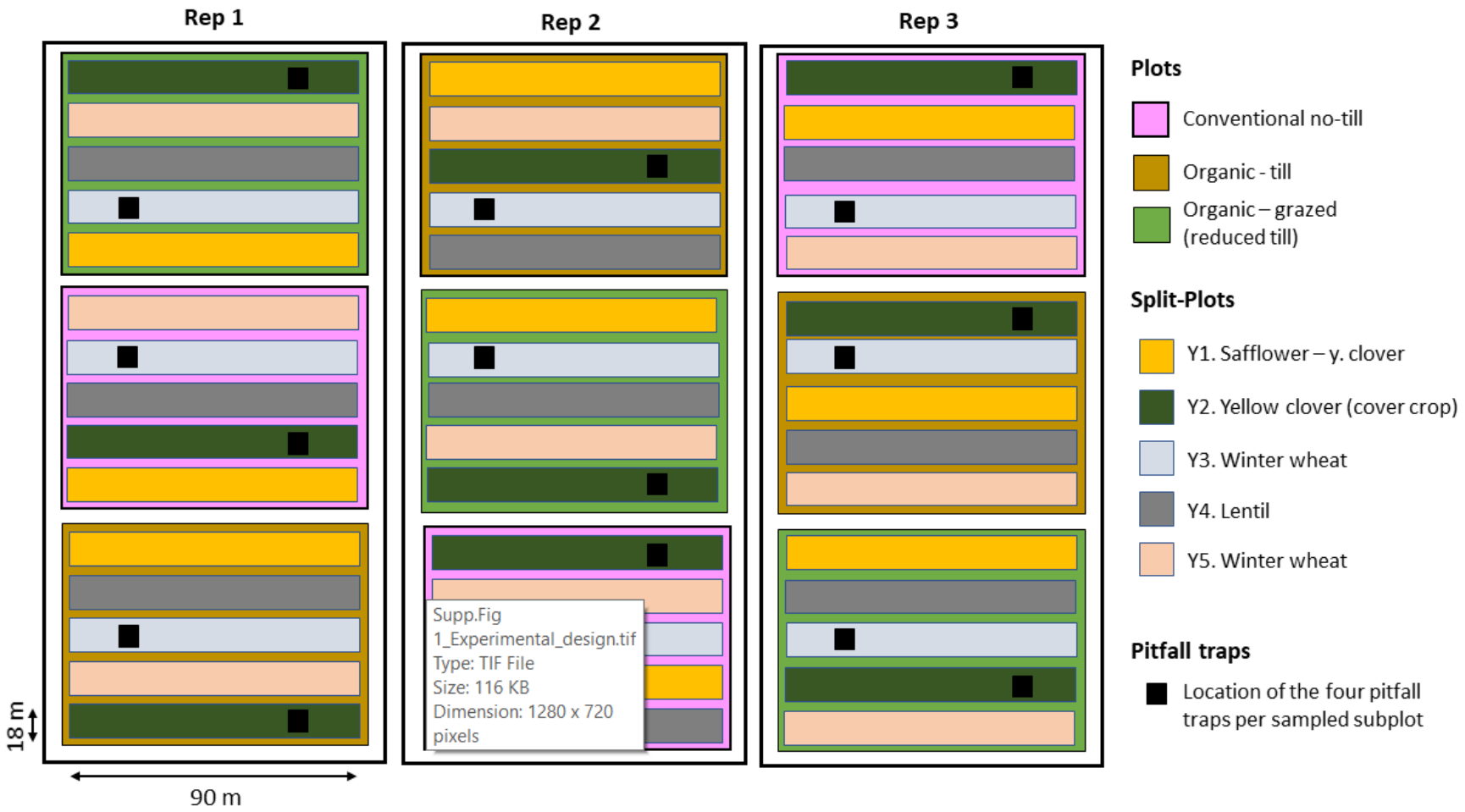

Rep 1
Rep 2
Rep 3
Plots
Conventional no-till
Organic - till
Organic – grazed (reduced till)
Split-Plots
Y1. Safflower – y. clover
Y2. Yellow clover (cover crop)
Y3. Winter wheat
Y4. Lentil
Y5. Winter wheat
Pitfall traps
Location of the four pitfall traps per sampled subplot
18 m
90 m
Supp.Fig 1_Experimental_design.tif
Type: TIF File
Size: 116 KB
Dimension: 1280 x 720 pixels

Figure S1.

Table S1.

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Precipitation (mm)	2013	18.69	18.22	18.50	34.91	121.76	80.50	25.72	22.33	70.17	42.81	22.55	32.50	508.66
	2014	23.93	42.80	85.25	58.32	56.61	101.39	19.31	87.71	38.60	25.98	50.84	35.67	626.41
	2015	16.70	19.84	15.15	64.40	102.06	25.63	57.90	29.72	40.26	50.61	45.36	36.21	503.84
	2016	16.91	8.95	48.31	53.43	68.46	28.76	32.38	22.74	54.67	104.75	20.00	37.76	497.12
	2017	15.88	34.73	42.47	93.55	69.52	69.77	12.58	18.99	72.09	35.66	65.78	56.16	587.18
	LTA *	23.93	21.51	36.02	60.04	81.20	81.58	39.34	37.07	38.06	43.65	31.60	24.33	518.33
Mean Temperature Maximum (C)	2013	0.70	2.90	7.40	10.90	17.50	23.00	29.40	29.00	22.00	11.50	6.80	-1.60	13.29
	2014	4.00	-3.10	6.00	12.40	17.90	20.20	28.60	25.70	21.50	17.70	4.50	2.90	13.19
	2015	2.70	6.90	12.50	13.50	15.80	26.30	26.70	27.90	23.30	17.10	4.00	0.70	14.78
	2016	1.20	6.60	9.90	14.40	16.60	25.80	28.10	27.20	19.40	14.70	11.10	-3.40	14.30
	2017	-3.40	3.70	10.90	12.30	18.20	23.40	31.10	28.30	20.60	13.60	5.10	-0.40	13.62
	LTA *	1.70	3.40	7.90	12.70	17.50	22.20	27.70	27.60	21.60	14.50	6.00	0.80	13.60
Mean Temperature Minimum (C)	2013	-10.30	-7.10	-5.00	-2.40	3.80	6.90	11.00	10.50	7.40	-1.50	-4.70	-11.70	-0.26
	2014	-6.90	-13.80	-5.30	-1.10	3.00	6.30	11.00	9.80	5.20	2.00	-7.60	-7.90	-0.44
	2015	-7.80	-4.70	-2.60	-1.60	4.00	9.30	10.80	9.50	6.20	3.00	-6.60	-8.80	0.89
	2016	-8.80	-4.00	-2.80	1.10	3.20	7.90	9.70	8.70	6.00	3.10	-1.30	-14.00	0.73
	2017	-14.50	-7.20	-1.00	-0.20	2.90	7.80	11.90	9.80	5.20	-0.70	-5.30	-11.00	-0.19
	LTA *	-9.70	-8.80	-5.30	-1.70	2.60	6.30	9.20	8.40	4.30	-0.40	-5.70	-10.50	-0.90

* LTA (Long-term average) is 30 years (1981–2010) average of mean precipitation, temperature maximum, and temperature minimum for Fort Ellis Research and Extension Center in Bozeman, MT. Source: PRISM Climate Group, Oregon State University, http://prism.oregonstate.edu, created 10 May 2020.

Table S2.

Year	System	Crop	Agronomic management details
2013	Conventional no-till	[β]Cover crop	Glyphosate (1680 g ai/ha) preemergence, Dicamba (280 g ai/ha) mixed with *Hel-Fire adjuvant (897 ml/ha). ^Seeding rate = 95 kg/ha.
		Winter wheat	2,4-D (700 g ai/ha), Dicamba (210 g ai/ha). ¥Urea (336 kg/ha). Seeding rate = 63 kg/ha.
2014		Cover crop	Glyphosate (2241 g ai/ha) 2X mixed with **MSO adjuvant (1793 ml/ha) 2X, Saflufenacil (140 g ai/ha) 2X mixed with [$]AWS adjuvant (210 ml/ha) 2X
		Winter wheat	Glyphosate (3360 g ai/ha) preemergence mixed with Hel-Fire adjuvant (448 ml/ha), Pinoxaden (1121 g ai/ha), Octanoic acid ester of bromoxynil + 2-ethylhexyl ester of MCPA (841 g ai/ha). Seeding rate = 61 kg/ha.
2015		Cover crop	Glyphosate (2241 g ai/ha) 2X mixed with Hel-Fire adjuvant (448 ml/ha) and MSO adjuvant (1793 ml/ha), Dibromide (2241 g ai/ha) mixed with [#]R11 adjuvant (897 ml/ha), Saflufenacil (140 g ai/ha) mixed with AWS adjuvant (105 ml/ha)
		Winter wheat	Glyphosate (1680 g ai/ha) preemergence, 2,4-D (700 g ai/ha), Bromoxynil (771 g ai/ha) mixed with AWS adjuvant (105 ml/ha). Urea (390 kg/ha). Seeding rate = 79 kg/ha.
2016		Cover crop	Glyphosate (2241 g ai/ha) mixed with Hel-Fire adjuvant (448 gm/ha), 2,4-D (1680 g ai/ha) mixed with R11 adjuvant (448 ml/ha)
		Winter wheat	Glyphosate (1680 g ai/ha) preemergence mixed with Hel-Fire adjuvant (448 ml/ha), Glyphosate (2241 g ai/ha) preemergence mixed with R11 adjuvant (448 ml/ha), fluroxypyr 1-methylheptyl ester (1121 g ai/ha) mixed with AWS adjuvant (105 ml/ha). Urea (244 kg/ha). Seeding rate = 79 kg/ha.
2017		Cover crop	Glyphosate (2800 g ai/ha) mixed with Hel-Fire adjuvant (448 ml/ha), Glyphosate (2241 g ai/ha) mixed with Hel-Fire adjuvant (448 ml/ha)
		Winter wheat	Glyphosate (1680 g ai/ha) preemergence, fluroxypyr 1-methylheptyl ester (946 g ai/ha) mixed with AWS adjuvant (105 ml/ha). Urea (242 kg/ha). Seeding rate = 83 kg/ha.
2013	Reduced-till grazed organic	Cover crop	In-crop grazing with 8 sheep for 32 days. Post-harvest grazing with 20 sheep for 1 day. Disked twice. Seeding rate = 191 kg/ha.
		Winter wheat	Post-harvest grazing with 12 sheep for 54 days. Chiseled once. Seeding rate = 125 kg/ha.
2014		Cover crop	Pre-plant grazing with 6 sheep for 40 days. In-crop grazing with 16 sheep for 16 days. Post-harvest grazing with 25 sheep for 7 days.
		Winter wheat	Post-harvest grazing with 12 sheep for 60 days. Chiseled once. Seeding rate = 121 kg/ha.
2015		Cover crop	Pre-plant grazing with 30 sheep for 2 days. In-crop grazing with 18 sheep for 5 days and 36 sheep for 9 days. Post-harvest grazing with 24 sheep for 1 day, 220 sheep for 3 days, and 220 sheep for 3 days
		Winter wheat	In-crop grazing with 28 sheep for 5 days. Post-harvest grazing with 12 sheep for 65 days. Harrowed once. Seeding rate = 157 kg/ha.
2016		Cover crop	In-crop grazing with 17 sheep for 8 days and 8 sheep for 4 days. Post-harvest grazing with 17 sheep for 3 days, 17 for 3 days, and 29 sheep for 3 days.
		Winter wheat	In-crop grazing with 18 sheep for 5 days and 36 sheep for 9 days. Post-harvest grazing with 24 sheep for 1 day, 220 sheep for 3 days, and 220 sheep for 3 days. Seeding rate = 157 kg/ha.
2017		Cover crop	Post-harvest grazing with 17 sheep for 1 day, and 30 sheep for 2 days.

		Winter wheat	In-crop grazing with 11 sheep for 16 days. Chiseled once. Seeding rate = 124 kg/ha.
2013	Tilled organic	Cover crop	Disked twice. Seeding rate = 125 kg/ha.
		Winter wheat	Chiseled once. Seeding rate = 125 kg/ha.
2014		Cover crop	Disked once and chiseled once.
		Winter wheat	Chiseled once. Seeding rate = 121 kg/ha.
2015		Cover crop	Disked once, chiseled twice, and harrowed once.
		Winter wheat	Chiseled twice and harrowed once. Seeding rate = 157 kg/ha.
2016		Cover crop	Disked three times and chiseled once.
		Winter wheat	Chiseled twice. Seeding rate = 157 kg/ha.
2017		Cover crop	Disked twice.
		Winter wheat	Chiseled twice. Seeding rate = 124 kg/ha.

[β]Austrian winter was planted in fall 2012 for Year 1 (2013) of the experiment because of the biennial nature of yellow sweet clover which would have required a previous year of seeding, but Year 2-5 (2014-2017) were seeded to sweet clover, as cover crops.

*Hel-Fire: mix of aminated phosphoric, carboxylic acids, sulphurated amides, spray deposition aids.

^Seeding rate is not available for clover cover crops.

¥Urea (46-0-0).

**MSO: Methylated seed oil.

[$]AWS: adding ammonium sulfate (nitrogen-based fertilizers).

[#]R11: Alkylphenol ethoxylate, butyl alcohol, and Dimethylpolysiloxane (90% by wt).

Table S3.

	2013			2014			2015			2016			2017			
Ground beetle species	CNT	GO	TO	CNT	GO	TO	CNT	GO	TO	CNT	GO	TO	CNT	GO	TO	**Total**
Agonoleptus conjunctus (Say)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	**2**
Agonum errans (Say)	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	**2**
Agonum placidum (Say)	0	0	0	2	7	2	0	4	5	0	2	0	0	0	0	**22**
Amara apricaria (Paykull)	0	2	0	0	0	2	4	7	2	0	3	3	0	0	2	**25**
Amara conflata LeConte	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	**2**
Amara crassispina LeConte	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	**4**
Amara cupreolata Putzeys	0	0	0	0	14	38	17	46	12	8	32	23	12	77	57	**336**
Amara discors Kirby	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	**4**
Amara erratica (Duftschmid)	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	**2**
Amara farcta LeConte	0	0	0	0	5	4	0	2	2	0	0	2	0	0	0	**15**
Amara idahoana (Casey)	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	**2**
Amara littoralis Dejean	2	0	3	4	5	22	4	42	9	5	10	11	2	8	4	**131**
Amara patruelis (Dejean)	0	0	0	4	13	23	0	0	0	0	0	0	0	0	0	**40**
Amara quenseli (Schönherr)	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	**5**
Amara sanjuanensis Hatch	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	**2**
Amara sp.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	**3**

Amara thoracica Hayward	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	**2**
Apristus pugetanus Casey	0	2	5	0	0	2	0	0	0	0	4	21	3	0	5	**42**
Bembidion obscurellum (Motschulsky)	0	0	0	0	0	0	0	0	5	0	0	0	0	2	0	**7**
Bembidion quadrimaculatum dubitans (LeConte)	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	**4**
Bembidion rupicola (Kirby)	0	0	0	0	0	0	0	0	0	0	2	4	0	2	0	**8**
Bembidion sp.1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	**3**
Bembidion sp.2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	**2**
Bembidion tetracolum Say	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	**3**
Bradycellus congener LeConte	0	0	0	5	2	3	2	2	0	2	3	0	0	0	0	**19**
Carabus nemoralis (Müller)	0	2	2	3	2	3	0	3	3	6	5	2	2	0	4	**37**
Clivina fossor (Linnaeus)	0	2	2	0	3	2	3	0	2	0	0	0	0	3	6	**23**
Dicheirotrichus cognatus (Gyllenhal)	0	0	0	2	0	3	0	0	0	0	0	0	0	0	0	**5**
Discoderus parallelus (Haldeman)	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	**2**
Harpalus amputatus Say	3	1	4	5	9	4	4	9	8	3	8	6	1	12	11	**88**
Harpalus animosus Casey	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	**4**
Harpalus desertus LeConte	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	**2**
Harpalus fraternus LeConte	0	0	0	5	0	6	0	2	0	2	5	4	2	3	0	**29**
Harpalus fuscipalpis Sturm	0	0	0	0	0	2	2	8	6	0	7	5	0	4	4	**38**

Harpalus herbivagus Say	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	**4**
Harpalus obnixus Casey	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	**2**
Harpalus opacipennis (Haldeman)	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	**5**
Harpalus paratus Casey	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**
Harpalus reversus Casey	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	**5**
Harpalus somnulentus Dejean	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	**4**
Loricera pilicornis (Fabricius)	0	0	0	0	0	0	0	2	0	0	3	0	0	0	0	**5**
Notiophilus borealis Harris	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	**4**
Notiophilus simulator Fall	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	**2**
Piosoma setosum LeConte	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	**4**
Poecilus corvus (LeConte)	0	2	0	0	3	0	0	2	3	0	2	7	0	3	9	**31**
Poecilus cursitor LeConte	2	3	2	2	4	6	3	4	5	0	3	4	0	3	7	**48**
Poecilus lucublandus (Say)	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Poecilus scitulus LeConte	0	0	0	3	5	3	3	5	4	4	7	20	0	28	10	**92**
Pterostichus adstrictus Eschscholtz	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	**2**
Pterostichus melanarius (Illiger)	5	2	4	7	0	3	6	0	9	85	9	99	68	15	55	**367**
Stenolophus anceps LeConte	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	**2**
Stenolophus comma (Fabricius)	0	0	0	0	0	0	2	0	0	0	0	0	0	2	3	**7**
Stenolophus fuliginosus Dejean	0	0	0	0	2	2	0	0	2	0	3	0	0	3	0	**12**

Stenolophus incultus Casey	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	**2**
Stenolophus limbalis LeConte	0	0	0	0	0	0	0	0	0	0	4	2	0	3	2	**11**
Stenolophus sp.1	0	0	0	0	0	0	0	0	0	0	2	3	0	0	0	**5**
Stenolophus sp.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	**2**
Trachypachus inermis Motschulsky	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Trechus obtusus Erichson	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	**5**
Trechus sp.	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	**2**
Total	**12**	**16**	**26**	**46**	**85**	**150**	**52**	**151**	**77**	**115**	**124**	**230**	**90**	**179**	**191**	**1544**

Table S4.

	2013			2014			2015			2016			2017			
Ground beetle species	CNT	GO	TO	CNT	GO	TO	CNT	GO	TO	CNT	GO	TO	CNT	GO	TO	**Total**
Agonum cupreum Dejean	0	2	2	0	0	0	0	0	0	0	2	0	0	0	0	**6**
Agonum errans (Say)	2	2	2	0	0	0	0	0	0	0	2	0	0	0	0	**8**
Agonum placidum (Say)	3	36	18	2	3	2	0	5	0	0	0	0	0	0	2	**71**
Amara apricaria (Paykull)	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	**6**
Amara convexa LeConte	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	**2**
Amara crassispina LeConte	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	**2**
Amara cupreolata Putzeys	0	0	0	0	2	9	3	154	6	0	30	3	6	245	44	**502**
Amara discors Kirby	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Amara farcta LeConte	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	**4**
Amara littoralis Dejean	0	3	0	0	7	7	3	44	2	0	23	4	0	17	8	**118**
Amara obesa (Say)	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	**2**
Amara patruelis (Dejean)	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	**4**
Amara quenseli (Schönherr)	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	**5**
Amara scitula Zimmermann	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	**2**
Apristus pugetanus Casey	2	0	0	0	0	3	0	0	0	2	0	0	0	0	3	**10**
Bembidion quadrimaculatum dubitans (LeConte)	0	0	0	0	0	0	0	0	3	0	3	3	0	0	2	**11**

Bembidion rupicola (Kirby)	0	0	0	0	0	0	0	0	2	0	2	2	0	0	2	**8**
Bembidion tetracolum tetracolum Say	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	**2**
Bradycellus congener LeConte	0	0	0	0	0	0	0	2	0	0	0	0	0	3	0	**5**
Carabus nemoralis (Müller)	0	9	3	2	3	2	2	2	0	2	6	3	2	2	6	**44**
Chlaenius nebraskensis LeConte	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	**2**
Cicindela purpurea LeConte	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	**2**
Clivina fossor (Linnaeus)	0	0	0	3	5	3	0	2	4	3	5	7	0	3	4	**39**
Discoderus parallelus (Haldeman)	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	**2**
Harpalus amputatus Say	6	9	5	1	2	1	5	9	9	4	3	4	6	11	9	**84**
Harpalus animosus Casey	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	**2**
Harpalus compar LeConte	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	**2**
Harpalus fraternus LeConte	2	2	2	0	0	0	0	4	2	0	0	0	0	0	3	**15**
Harpalus fuscipalpis Sturm	2	3	2	0	0	0	2	7	2	0	7	2	2	3	2	**34**
Harpalus herbivagus Say	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	**2**
Harpalus laevipes Zetterstedt	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Harpalus reversus Casey	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	**3**
Harpalus somnulentus Dejean	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	**2**
Loricera pilicornis (Fabricius)	0	0	0	0	0	0	4	0	5	2	4	2	0	0	2	**19**

Notiophilus borealis Harris	0	0	0	0	0	0	0	0	0	2	2	2	0	0	0	**6**
Notiophilus simulator Fall	0	0	0	0	0	0	0	0	0	0	3	0	0	2	0	**5**
Poecilus corvus (LeConte)	0	0	0	0	0	0	0	3	2	0	3	6	0	3	7	**24**
Poecilus cursitor LeConte	2	4	3	3	2	0	0	0	8	0	2	20	0	3	12	**59**
Poecilus lucublandus (Say)	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	**4**
Poecilus scitulus LeConte	2	0	0	2	3	0	2	3	3	2	0	0	0	0	3	**20**
Pterostichus corvinus (Dejean)	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	**2**
Pterostichus melanarius (Illiger)	5	3	3	4	2	0	6	2	8	25	16	61	30	10	50	**225**
Stenolophus anceps LeConte	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	**2**
Stenolophus comma (Fabricius)	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	**2**
Stenolophus limbalis LeConte	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	**2**
Trachypachus inermis Motschulsky	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Trechus obtusus Erichson	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	**2**
Trechus sp.	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	**6**
Total	**28**	**73**	**48**	**19**	**38**	**37**	**31**	**239**	**68**	**42**	**122**	**123**	**48**	**308**	**161**	**1385**

Table S5.

Variables		Indicator species	Indicator value	p-value
Farming system	CNT	NA	NA	NA
	GO	NA	NA	NA
	TO	*Apristus pugetanus*	0.59	0.001
	CNT + GO	NA	NA	NA
	CNT + TO	*Pterostichus melanarius*	0.86	0.001
	GO + TO	*Agonum placidum*	0.55	0.022
		Amara cupreolata	0.78	0.002
		Amara littoralis	0.82	0.001
		Clivina fossor	0.57	0.027
		Harpalus fuscipalpis	0.66	0.002
		Poecilus corvus	0.59	0.001
		Poecilus cursitor	0.71	0.004
Crop type	Cover crops	*Amara apricaria*	0.47	0.020
		Amara patruelis	0.42	0.041
		Apristus pugetanus	0.50	0.015
		Bradycellus congener	0.41	0.036
		Poecilus scitulus	0.66	0.002
	Winter wheat	*Loricera pilicornis*	0.38	0.048