



Title	Response of aquatic insects along gradients of agricultural development and flood magnitude in northern Japanese streams
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## Supplementary material

Table S1. Environmental characteristics of study sites at pre-flood condition

Site	Pasture (%)	Relative shear stress	Slope (%)	Average flow velocity (cm s <sup>-1</sup> )	Average water depth (cm)	Average water width (m)	Average Sand cover (%)	C.V. of velocity	C.V. of depth	C.V. of width	H' diversity of substrates
Ki1	0	2.07	2.30	9.4	20.9	1.93	29.6	0.98	0.83	0.40	0.56
Ki2	0	1.98	2.51	17.9	13.9	3.03	20.8	0.88	0.63	0.21	0.48
Ki3	4.1	1.87	1.33	24.5	13.8	2.92	18.3	0.66	0.64	0.23	0.51
Ki4	7.2	2.21	1.57	23.1	12.2	4.15	22.1	0.59	0.28	0.06	0.40
Ki5	8.8	1.88	1.92	16.9	20.6	4.25	19.2	0.55	0.54	0.15	0.34
Ki6	10.8	2.14	1.04	18.9	12.6	4.28	30.8	0.51	0.47	0.13	0.27
Ki7	16.2	2.32	1.21	21.7	29.8	10.05	40.8	0.48	0.49	0.23	0.47
Ki8	17.1	1.55	1.12	27.2	51.9	9.15	35.8	0.53	0.63	0.14	0.46
Ki9	17.9	1.58	1.01	16.4	62.5	9.92	35.0	0.42	0.41	0.08	0.47
Pe1	0	1.35	4.90	21.0	10.6	2.77	7.5	0.74	0.52	0.22	0.48
Pe2	0	1.24	3.19	18.3	15.5	2.82	18.3	0.96	0.53	0.27	0.45
Pe3	0.1	1.68	2.47	14.9	15.1	2.7	11.3	0.78	0.45	0.17	0.42
Pe4	1.0	1.55	2.15	21.1	24.9	4.35	8.3	0.68	0.92	0.26	0.52
Pe5	2.4	1.49	3.35	27.6	15.7	4.52	2.9	0.65	0.42	0.20	0.51
Pe6	4.3	2.19	1.98	26.8	16.5	5.67	5.0	0.67	0.40	0.17	0.28
Pe7	9.0	1.98	1.13	12.6	35.1	9.2	45.8	0.76	0.48	0.26	0.52
Pe8	9.8	2.17	2.08	34.8	18.3	5.48	17.9	0.53	0.40	0.11	0.43
Pe9	11.7	2.08	1.91	20.4	28.5	6.42	29.6	0.69	0.51	0.11	0.45
Ke1	4.8	1.60	1.51	15.1	10.5	1.58	32.9	0.44	0.36	0.17	0.30
Ke2	7.8	1.56	1.72	11.1	21.5	2.22	56.7	0.49	0.56	0.20	0.38
Ke3	14.4	1.66	1.22	9.1	19.7	2.27	68.8	0.56	0.38	0.18	0.27
Ke4	17.9	2.46	2.11	21.5	11.8	4.08	57.1	0.53	0.33	0.10	0.30
Ke5	14.5	1.79	0.83	4.9	53.7	3.75	76.3	0.52	0.21	0.09	0.24
Ke6	14.6	1.58	1.44	9.4	33.6	2.85	53.3	0.54	0.53	0.18	0.43
Ke7	11.3	1.87	1.89	22.6	32.7	6.98	39.2	0.67	0.61	0.21	0.40
Ke8	10.5	1.97	0.99	18.3	41.2	6.5	46.7	0.57	0.52	0.13	0.51
Ke9	10.2	2.15	1.48	17.2	29.0	7.03	19.6	0.61	0.54	0.23	0.48

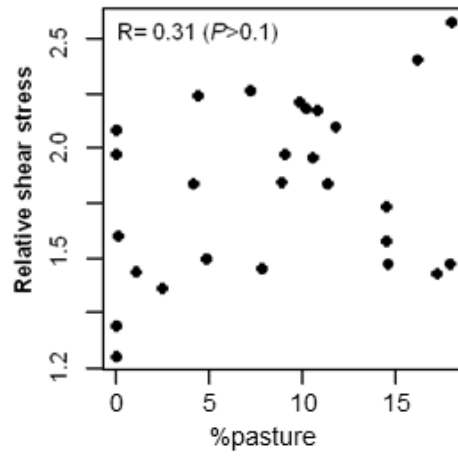


Figure S1. A relationship between agricultural intensity (catchment %pasture) and flood magnitude (relative shear stress). There is no significant correlation between %pasture and relative shear stress (Pearson's correlation).