

Table S1. *Cephus cinctus* infestation and its parasitoid abundance in spring and winter wheat fields inside more intensively managed landscape of Golden Triangle, Montana, USA and outside.

Wheat type	Infestation status	Outside Golden Triangle			Golden Triangle			t-test
		Observations	Mean	Std Dev	Observations	Mean	Std Dev	
Spring wheat	Stems infested	1509	35.67%	0.33	629	17.58%	0.26	***
	Stems with parasitized larvae	1509	8.63%	0.18	629	5.35%	0.18	***
	Stems cut by mature larvae	1509	14.35%	0.21	629	9.80%	0.20	***
Winter wheat	Stems infested	436	39.21%	0.30	1264	48.81%	0.36	***
	Stems with parasitized larvae	436	4.21%	0.11	1264	6.84%	0.19	***
	Stems cut by mature larvae	436	11.23%	0.14	1264	23.96%	0.26	***

The table is adopted from Bekkerman and Weaver [48]. *** $P < 0.0001$

Table S2. Estimated pest regulation service values by parasitoids of *Cephus cinctus* in Montana, USA. To estimate the values, a counterfactual analysis was done on *C. cinctus* infested spring and winter wheat stems and parasitoids presence on infested stems with four scenarios: base case, zero parasitoids, 2x parasitoids, and parasitoids in 30% of infested stems.

	Base Case	Zero parasitoids	2x parasitoids	30% of infested stems contain parasitized larvae
Average # of infested stems	45.99%	45.99%	45.99%	62.00%
Average # of cut stems	15.15%	18.34%	8.76%	5.41%
Average # of stems with parasitoids	3.20%	0.00%	6.39%	13.90%
Change relative to base case		-3.01%	3.10%	21.24%
Average estimated annual production loss in Montana over the past 10 years (SW; Spring wheat, in metric tons)	80,714	83,142	78,210	63,568
Average estimated annual production loss in Montana over the past 10 years (WW; Winter wheat, in metric tons)	131,925	131,925	131,925	103,900
Average estimated total annual production loss in Montana (SW + WW)	212,639	215,067	210,135	167,468
Total estimated foregone revenues due to <i>C. cinctus</i> -related production losses, using average market prices over the past 10 years (SW)	\$21,222,335	\$21,860,829	\$20,564,036	\$16,723,889

Total estimated foregone revenues due to <i>C. cinctus</i> -related production losses, using average market prices over the past 10 years (WW)	\$31,574,319	\$31,574,319	\$31,574,319	\$24,853,313
Total estimated foregone revenues due to <i>C. cinctus</i> -related production losses, using average market prices over the past 10 years (SW + WW)	\$52,796,654	\$53,435,148	\$52,138,355	\$41,577,202
Change in foregone revenues due to different parasitoid scenario (relative to base; positive = additional losses; negative = reduction in losses)		\$638,494	-\$658,299	-\$11,219,452
