

Table 1: Summary of ecosystem goods and services provided by freshwater insects. Adapted from Macadam & Stockan, 2015.

Type of ecosystem service	Service or good provided		Taxa involved	Economic value
Provisioning	Silk sericins, chitins		Trichoptera (caddis flies), Coleoptera (beetles), Diptera (flies), Ephemeroptera (mayflies), Odonata (dragon and damselflies), Plecoptera (stoneflies)	Low
	Model organisms		All	Low
Supporting	Clean water	Decomposition, nutrient cycling, bioturbation, bioirrigation	Diptera, Ephemeroptera, Trichoptera	Medium
	Biomass	Secondary production	All	Medium
	Dispersal	Transport of algae, protozoa and fungi	Hemiptera (true bugs), Trichoptera, Plecoptera, Megaloptera (alderflies), Ephemeroptera	None
Regulating	Clean water	Bioremediation	Diptera	Low
	Sediment stability		Trichoptera	Low
	Pollination		Diptera	Medium
	Pest control		Odonata	Low
Cultural	Recreation	Recreational fishing	Ephemeroptera, Plecoptera, Trichoptera, (Diptera and Megaloptera to a lesser extent)	High
	Inspiration	Marketing	Ephemeroptera, Odonata	Medium
		Education	All	None
		Technology	Ephemeroptera, Odonata	Medium
	Aesthetic appreciation		Odonata	None