

Additional file 3. Comprehensiveness check for search strategy

Comprehensiveness check per 15.09.2021		Found in search												
No.	Key articles available in databases	1. Web of Science	2. CAB Abstracts	3. Agricola	4. Embase	5. Biological Abstracts	6. MEDLINE	7. Scopus	8. Green FILE	9.LILACS	10. OpenGrey	SUM	Availability	
1	Azevedo-Santos VM, Vitule JRS, García-Berthou E, Pelicice FM, Simberloff D. Misguided strategy for mosquito control . Science (80-.). 2016. https://doi.org/10.1126/science.351.6274.675 PMID: 26912851	0	0	0	1	1	1	1	0	0	0	4	1	
2	Bassar RD, Ferriere R, Lo'pez-Sepulcre A, Marshall MC, Travis J, Pringle CM, Reznick DN (2012) Direct and indirect ecosystem effects of evolutionary adaptation in the Trinidadian guppy (<i>Poecilia reticulata</i>) . Am Nat 180:167–185.	0	0	0	1	1	1	1	0	0	0	4	1	
3	Ronald D. Bassar, Brynne L. Bryan, Michael C. Marshall, Catherine M. Pringle, David N. Reznick, Joseph Travis. Local adaptation of fish consumers alters primary production through changes in algal community composition and diversity . Volume126, Issue4. April 2017. Pages 594-603. https://doi.org/10.1111/oik.03965	1	0	1	0	1	0	1	0	0	0	4	1	
4	Deacon AE, I. W. Ramnarine and A. E. Magurran. How Reproductive Ecology Contributes to the Spread of a Globally Invasive Fish . Plos One 2011 Vol. 6 Issue 9. https://doi.org/10.1371/journal.pone.0024416 .	1	0	0	1	1	1	1	0	0	0	5	1	
5	Deacon AE, Ghosh SK, Bhat A, Magurran AE. Predatory behaviour of female guppies (<i>Poecilia reticulata</i>) in a mosquito control context: the importance of social and habitat factors . AQUATIC INVASIONS SEP 2019, Volume: 14 Issue: 3 Pages: 478-489 Special Issue: SI https://doi.org/10.3391/ai.2019.14.3.07 .	1	1	0	0	1	0	1	0	0	0	4	1	
6	El-Sabaawi R. W., T. C. Frauendorf, P. S. Marques, R. A. Mackenzie, L. R. Manna, R. Mazzoni, et al. Biodiversity and ecosystem risks arising from using guppies to control mosquitoes . Biology Letters 2016 Vol. 12 Issue 10. https://doi.org/10.1098/rsbl.2016.0590	1	1	0	1	0	1	1	0	0	0	5	1	
7	Englund RE (1999) The Impacts of Introduced Poeciliid Fish and Odonata on the Endemic Megalagrion (Odonata) Damselflies of Oahu Island, Hawaii . Journal of Insect Conservation 3: 225-243. https://doi.org/10.1023/A:1009651922486 .	0	1	0	0	0	0	0	0	0	0	1	1	
8	Holtzki TM, MacKenzie RA, Wiegner TN, McDermid KJ. Differences in ecological structure, function, and native species abundance between native and invaded Hawaiian streams . Ecological Applications. 23(6):1367-83, 2013 Sep.	1	1	1	1	1	1	1	0	0	0	7	1	
9	Krinski, D., & Camera, B. F.. (2018). Occasional release of guppy, <i>Poecilia reticulata</i> (Cyprinodontiformes, Poeciliidae) in Upper Paraguay River Basin, Mato Grosso State: a new threat to rivers forming the Brazilian Pantanal? Brazilian Journal of Biology, 78(3), 595-596. Epub November 13, 2017. https://doi.org/10.1590/1519-6984.173213 .	0	0	0	0	1	0	0	0	0	0	1	1	
10	Raghavan R, Prasad, G., Anvar-Ali, P. H. and Pereira, B. (2008) Exotic fish species in a global biodiversity hotspot: observations from River Chalakudy, Western Ghats, Kerala, India . Biological Invasions 10: 37-40. https://doi.org/10.1007/s10530-007-9104-2 .	1	0	1	0	1	0	1	0	0	0	4	1	
11	Saba, A.O., Ismail, A., Zulkifli, S.Z. et al. Species composition and invasion risks of alien ornamental freshwater fishes from pet stores in Klang Valley, Malaysia . Sci Rep 10, 17205 (2020). https://doi.org/10.1038/s41598-020-74168-9 .	0	0	0	0	0	0	0	0	0	0	0	0	
12	Santana Marques, P, Resende Manna, L, Clara Frauendorf, T, Zandonà, E, Mazzoni, R, El-Sabaawi, R. Urbanization can increase the invasive potential of alien species . J Anim Ecol. 2020; 89: 2345– 2355. https://doi.org/10.1111/1365-2656.13293 .	0	0	0	1	0	1	0	1	0	0	3	1	
13	Tsang AHF, Dudgeon, D. A comparison of the ecological effects of two invasive poeciliids and two native fishes: a mesocosm approach . Biol Invasions (2021) 23:1517–1532. https://doi.org/10.1007/s10530-020-02455-7 . https://link.springer.com/content/pdf/10.1007/s10530-020-02455-7.pdf	0	1	1	0	1	1	1	0	0	0	5	1	
	SUM	6	5	4	6	9	7	9	1	0	0		12	92%