

AQUATIC CONTAMINATION STUDIES

Author	Year	Title	Link
Agatz et al.	2013	<u>Imidacloprid perturbs feeding of Gammarus pulex at environmentally-relevant concentrations</u>	<u>http://onlinelibrary.wiley.com/doi/10.1002/etc.2480/abstract</u>
Alexander & Culp	2013	<u>Predicting the Effects of Insecticide Mixtures on Non-Target Aquatic Communities</u>	<u>http://cdn.intechopen.com/pdfs-wm/42214.pdf</u>
Ansoar-Rodriguez et al.	2016	<u>Genotoxic Potential of the Insecticide Imidacloprid in a Non-Target Organism (Oreochromis niloticus-Pisces)*</u>	<u>http://file.scirp.org/pdf/JEP_2015120913321615.pdf</u>
Aregahegn et al.	2017	<u>Photochemistry of Thin Solid Films of the Neonicotinoid Imidacloprid on Surfaces</u>	<u>http://pubs.acs.org/doi/abs/10.1021/acs.est.6b04842</u>
Aslund et al.	2016	<u>ECOLOGICAL RISK ASSESSMENT FOR AQUATIC INVERTEBRATE COMMUNITIES EXPOSED TO IMIDACLOPRID DUE TO LABELED AGRICULTURAL AND NON-AGRICULTURAL USES IN THE UNITED STATES</u>	<u>https://www.ncbi.nlm.nih.gov/pubmed/27753126</u>
Beketov et al.	2013	<u>Pesticides reduce regional biodiversity of stream invertebrates</u>	<u>http://www.pnas.org/content/110/27/11039.short</u>
Benton et al.	2016	<u>Consequences of imidacloprid treatments for hemlock woolly adelgid on stream water quality in the southern Appalachians</u>	<u>https://www.researchgate.net/publication/283270089_Consequences_of_imidacloprid_treatments_for_hemlock_woolly_adelgid_on_stream_water_quality_in_the_southern_Appalachians</u>
Bijleveld van Lexmond et al.	2014	<u>Worldwide integrated assessment on systemic pesticides</u>	<u>http://link.springer.com/article/10.1007/s11356-014-3220-1</u>

Bottger et al.	2013	Effects of low-dosed imidacloprid pulses on the functional role of the caged amphipod <i>Gammarus roeseli</i> in stream mesocosms	http://www.sciencedirect.com/science/article/pii/S0147651313001322
Budd et al.	2014	Monitoring efforts of an emergent insecticide fipronil in California surface waters	http://www.cdpr.ca.gov/docs/emon/surfwtr/swposters/25_budd.pdf
Chagnon et al.	2014	Risks of large-scale use of systemic insecticides to ecosystem functioning and services	http://link.springer.com/article/10.1007/s11356-014-3277-x
Chen et al.	2009	Mixture effects of the nonylphenyl polyethoxylate, R-11 and the insecticide, imidacloprid on population growth rate and other parameters of the crustacean, <i>Ceriodaphniadubia</i>	http://www.sciencedirect.com/science/article/pii/S0147651309002127
Chretien et al.	2017	Surface runoff and subsurface tile drain losses of neonicotinoids and companion herbicides at edge-of-field*	https://www.ncbi.nlm.nih.gov/pubmed/28209433
Daam et al	2013	Preliminary aquatic risk assessment of imidacloprid after application in an experimental rice plot	http://www.sciencedirect.com/science/article/pii/S0147651313003096
DeLorenzo et al.	2012	A long-term monitoring study of chlorophyll, microbial contaminants, and pesticides in a coastal residential stormwater pond and its adjacent tidal creek	http://www.ncbi.nlm.nih.gov/pubmed/21409361
Dondero et al.	2010	Transcriptomic and proteomic effects of a neonicotinoid insecticide mixture in the marine mussel (<i>Mytilus galloprovincialis</i>)	http://www.sciencedirect.com/science/article/pii/S0048969710003116
Evelsizer and Skopec	2016	Pesticides, Including Neonicotinoids, in Drained Wetlands of Iowa's Prairie Pothole Region	http://link.springer.com/article/10.1007/s13157-016-0796-x
Goulson	2013	An overview of the environmental risks posed by neonicotinoid insecticides	http://onlinelibrary.wiley.com/doi/10.1111/1365-2664.12111/abstract?deniedAccessCustomisedMessage=&userIsAuthenticated=false

Gvozdenac et al.	2016	Phytotoxic effects of irrigation water depending on the presence of organic and inorganic pollutants	http://link.springer.com/article/10.1007%2Fs11356-016-7024-3
Hayasaka et al.	2011	Differences in ecological impacts of systemic insecticides with different physiochemical properties on biocenosis of experimental paddy fields	http://link.springer.com/article/10.1007/s10646-011-0778-y
Hayasaka et al.	2012	Differences in susceptibility of five cladoceran species to two systemic insecticides, imidacloprid and fipronil	http://link.springer.com/article/10.1007/s10646-011-0802-2
Hladik & Kolpin	2015	First national-scale reconnaissance of neonicotinoid insecticides in streams across the USA	http://ca.water.usgs.gov/pubs/2015/HladikKolpin2015.pdf
Hladik et al.	2014	Widespread occurrence of neonicotinoid insecticides in streams in a high corn and soybean producing region, USA	http://www.sciencedirect.com/science/article/pii/S0269749114002802
Hladik et al.	2017	Neonicotinoid insecticide removal by prairie strips in row-cropped watersheds with historical seed coating use	https://pubs.er.usgs.gov/publication/70185702
Ieromina et al.	2013	Impact of imidacloprid on <i>Daphnia magna</i> under different food quality regimes	http://onlinelibrary.wiley.com/doi/10.1002/etc.2472/abstract
Jemec et al.	2007	Comparative toxicity of imidacloprid, of its commercial liquid formulation and of diazinon to a non-target arthropod, the microcrustacean <i>Daphnia magna</i>	http://www.sciencedirect.com/science/article/pii/S0045653507004821
Jinguji et al. 2013	2013	Effect of imidacloprid and fipronil pesticide application on <i>Sympetrum infuscatum</i> larvae and adults	http://link.springer.com/article/10.1007%2Fs10333-012-0317-3
Kasai et al.	2016	Fipronil application on rice paddy fields reduces densities of common skimmer and scarlet skimmer	http://www.ncbi.nlm.nih.gov/pubmed/26979488

Kindemba	2009	The impact of neonicotinoid insecticides on bumblebees, Honey bees and other non-target invertebrates (revised)	http://www.beyondpesticides.org/pollinators/Neonicotinoid%20insecticides%20report-1.pdf
Klarich et al.	2017	Occurrence of Neonicotinoid Insecticides in Finished Drinking Water and Fate during Drinking Water Treatment	http://pubs.acs.org/doi/abs/10.1021/acs.estlett.7b00081
Loureiro et al.	2010	Toxicity of Three Binary Mixtures to Daphnia magna: Comparing Chemical Modes of Action and Deviations from Conceptual Models	http://onlinelibrary.wiley.com/doi/10.1002/etc.198/abstract?deniedAccessCustomisedMessage=&userIsAuthenticated=false
Lu et al.	2015	Quantum Yields for Direct Photolysis of Neonicotinoid Insecticides in Water: Implications for Exposure to Nontarget Aquatic Organisms	http://pubs.acs.org/doi/abs/10.1021/acs.estlett.5b00136
Lukancic et al.	2010	Effects of Exposing Two Non-Target Crustacean Species, Asellus aquaticus L., and Gammarus fossarum Koch., to Atrazine and Imidacloprid	http://link.springer.com/article/10.1007/s00128-009-9854-x
Main et al.	2014	Widespread Use and Frequent Detection of Neonicotinoid Insecticides in Wetlands of Canada's Prairie Pothole Region	http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0092821
Main et al.	2015	Ecological and landscape drivers of neonicotinoid insecticide detections and concentrations in Canada's Prairie wetlands	http://www.ncbi.nlm.nih.gov/pubmed/26098364
Main et al.	2016	Snowmelt transport of neonicotinoid insecticides to Canadian Prairie wetlands	http://www.sciencedirect.com/science/article/pii/S0167880915300785
Malev et al.	2012	Comparative toxicity of imidacloprid and its transformation product 6-chloronicotinic acid to non-target aquatic organisms: Microalgae Desmodesmus subspicatus and amphipod Gammarus fossarum	http://www.sciencedirect.com/science/article/pii/S0048357512001150

Miles et al.	2017	Effects of clothianidin on aquatic communities: Evaluating the impacts of lethal and sublethal exposure to neonicotinoids	http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0174171
Moore et al.	2016	Derivation of an aquatic benchmark for invertebrates potentially exposed to imidacloprid	https://peerj.com/preprints/2584.pdf
Morrissey et al.	2015	Neonicotinoid contamination of global surfacewaters and associated risk to aquatic invertebrates: A review	http://www.sciencedirect.com/science/article/pii/S0160412014003183
Mulligan et al.	2016	Photodegradation of clothianidin under simulated California rice field conditions	https://www.ncbi.nlm.nih.gov/pubmed/26374572
Osterberg et al.	2012	Acute toxicity and sub-lethal effects of common pesticides in post-larval and juvenile blue crabs, <i>Callinectes sapidus</i>	http://www.sciencedirect.com/science/article/pii/S0022098112001694
Papchenkova & Makrushin	2013	Effect of the Insecticide Tanrec® on Reproduction and Vital Activity of <i>Daphnia magna</i> Straus in a 15 day Test	https://www.infona.pl/resource/bwmeta1.element.springer-1f43ffc2-d894-30e7-8b99-c23fe33751de/tab/summary
Pathiratne and Kroon	2015	USING SPECIES SENSITIVITY DISTRIBUTION APPROACH TO ASSESS THE RISKS OF COMMONLY DETECTED AGRICULTURAL PESTICIDES TO AUSTRALIA'S TROPICAL FRESHWATER ECOSYSTEMS	http://onlinelibrary.wiley.com/doi/10.1002/etc.3199/abstract?systemMessage=Subscribe+and+renew+is+currently+unavailable+online.+Please+contact+customer+care+to+place+an+order%3A++http%3A%2F%2Folabout.wiley.com%2FWileyCDA%2FSection%2Fid-397203.html+.Apologies+for+the+inconvenience.
Pavlaki at al.	2014	Changes of chemical chronic toxicity to <i>Daphnia magna</i> under different food regimes	http://www.sciencedirect.com/science/article/pii/S0147651314003595
Pavlaki et al.	2011	Effects of binary mixtures on the life traits of <i>Daphnia magna</i>	http://www.sciencedirect.com/science/article/pii/S0147651310001600
Pestana et al.	2009	Structural and functional responses of benthic invertebrates to imidacloprid in outdoor stream mesocosms	http://www.sciencedirect.com/science/article/pii/S0269749109001663

Pestana et al.	2009	Fear and loathing in the benthos: Responses of aquatic insect larvae to the pesticide imidacloprid in the presence of chemical signals of predation risk	http://www.sciencedirect.com/science/article/pii/S0166445X09001428
Pestana et al.	2010	Pesticide exposure and inducible antipredator responses in the zooplankton grazer, <i>Daphnia magna</i> Straus	http://www.sciencedirect.com/science/article/pii/S0045653509012934
Pisa et al.	2014	Effects of neonicotinoids and fipronil on non-target invertebrates	http://link.springer.com/article/10.1007/s11356-014-3471-x
Pochini and Hoverman	2016	Reciprocal effects of pesticides and pathogens on amphibian hosts: The importance of exposure order and timing*	http://www.sciencedirect.com/science/article/pii/S026974911632468X
Potter et al.	2007	Canadian Water Quality Guidelines: Imidacloprid	http://link.springer.com/article/10.1007/s00128-011-0515-5#page-1
Roessink et al.	2013	The Neonicotinoid Imidacloprid Shows High Chronic Toxicity to Mayfly Nymphs	http://onlinelibrary.wiley.com/doi/10.1002/etc.2201/abstract?deniedAccessCustomisedMessage=&userIsAuthenticated=false
Sadaria et al.	2016	Mass Balance Assessment for Six Neonicotinoid Insecticides During Conventional Wastewater and Wetland Treatment: Nationwide Reconnaissance in United States Wastewater	http://pubs.acs.org/doi/abs/10.1021/acs.est.6b01032
Sanchez-Bayo & Hyne	2013	Detection and analysis of neonicotinoids in river waters – Development of a passive sampler for three commonly used insecticides	http://www.sciencedirect.com/science/article/pii/S0045653513014859
Sanchez-Bayo and Goka	2016	Contamination of the Aquatic Environment with Neonicotinoids and its Implication for Ecosystems	http://journal.frontiersin.org/article/10.3389/fenvs.2016.00071/full

Sardo & Soares	2010	<u>Assessment of the Effects of the Pesticide Imidacloprid on the Behaviour of the Aquatic Oligochaete Lumbriculus variegatus</u>	<u>https://link.springer.com/article/10.1007/s00244-010-9470-0</u>
Schaafsma et al.	2015	<u>Neonicotinoid Insecticide Residues in Surface Water and Soil Associated with Commercial Maize (Corn) Fields in Southwestern Ontario</u>	<u>http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0118139</u>
Smit et al.	2014	<u>Ecotoxicity of Imidacloprid to Aquatic Organisms: Derivation of Water Quality Standards for Peak and Long-term Exposure</u>	<u>http://www.tandfonline.com/doi/abs/10.1080/10807039.2014.964071</u>
Starner & Goh	2012	<u>Detections of the Neonicotinoid Insecticide Imidacloprid in Surface Waters of Three Agricultural Regions of California, USA, 2010-2011</u>	<u>http://link.springer.com/article/10.1007/s00128-011-0515-5#page-1</u>
Stehle & Schulz	2015	<u>Pesticide authorization in the EU—environment unprotected?</u>	<u>http://www.ncbi.nlm.nih.gov/pubmed/26276274</u>
Stehle & Shulz	2015	<u>Agricultural insecticides threaten surface waters at the global scale</u>	<u>http://www.pnas.org/content/112/18/5750.abstract</u>
Stoughton et al.	2008	<u>Acute and Chronic Toxicity of Imidacloprid to the Aquatic Invertebrates Chironomus tentans and Hyalella azteca under Constant- and Pulse-Exposure Conditions</u>	<u>http://link.springer.com/article/10.1007/s00244-007-9073-6#page-1</u>
Struger et al.	2016	<u>Factors influencing the occurrence and distribution of neonicotinoid insecticides in surface waters of southern Ontario, Canada</u>	<u>http://www.sciencedirect.com/science/article/pii/S004565351631565X</u>
Tamis et al.	2015	<u>Analysis of imidacloprid in Dutch surface water</u>	<u>http://www.leidenuniv.nl/cml/bieb_internet/publications/cml_rapporten/analyse_van_imidacloprid_concentraties_in_het_oppervlaktewater.pdf</u>
Tisler et al.	2009	<u>Hazard identification of imidacloprid to aquatic environment</u>	<u>http://www.sciencedirect.com/science/article/pii/S0045653509005815</u>

Tufi et al.	2015	Metabolomics to Explore Imidacloprid-Induced Toxicity in the Central Nervous System of the Freshwater Snail <i>Lymnaea stagnalis</i>	http://pubs.acs.org/doi/abs/10.1021/acs.est.5b03282?journalCode=esthag
Tufi et al.	2015	Metabolomics to explore imidacloprid induced toxicity in the central nervous system of the freshwater snail <i>Lymnaea stagnalis</i>	http://www.ncbi.nlm.nih.gov/pubmed/26509427
Ugurlu et al.	2015	The Toxicological Effects of Thiamethoxam on <i>Gammarus Kischineffensis</i>	http://www.sciencedirect.com/science/article/pii/S1382668915000307
van der Sluijs et al.	2014	Conclusions of the Worldwide Integrated Assessment on the risks of neonicotinoids and fipronil to biodiversity and ecosystem functioning	http://link.springer.com/article/10.1007/s11356-014-3229-5#page-1
van Dijk	2010	Effects of neonicotinoid pesticide pollution of Dutch surface water on non-target species abundance	http://dspace.library.uu.nl/handle/1874/45302
van Dijk et al.	2013	Macro-Invertebrate Decline in Surface Waters Polluted with Imidacloprid	http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0062374
Van Metre et al.	2016	Complex mixtures of Pesticides in Midwest U.S. streams indicated by POCIS time-integrating samplers	http://www.sciencedirect.com/science/article/pii/S0269749116315032
Weston et al.	2015	Stormwater-related transport of the insecticides bifenthrin, fipronil, imidacloprid, and chlorpyrifos into a tidal wetland, San Francisco Bay, California	http://www.ncbi.nlm.nih.gov/pubmed/25956145
Wettstein et al.	2016	Leaching of the Neonicotinoids Thiamethoxam and Imidacloprid from Sugar Beet Seed Dressings to Subsurface Tile Drains	http://pubs.acs.org/doi/abs/10.1021/acs.jafc.6b02619

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Xerces	2016	<u>Neonicotinoids in California's Surface Waters</u>	<u>http://www.xerces.org/neonicotinoids-and-surface-waters/</u>