



WILD BEE STUDIES

Author	Year	Title	Link
Arce et al.	2016	<u>Impact of controlled neonicotinoid exposure on bumblebees in a realistic field setting</u>	<u>http://onlinelibrary.wiley.com/doi/10.1111/1365-2664.12792/full</u>
Arena & Sgolastra	2014	<u>A meta-analysis comparing the sensitivity of bees to pesticides</u>	<u>http://link.springer.com/article/10.1007/s10646-014-1190-1</u>
Baron et al.	2017	<u>General and species-specific impacts of a neonicotinoid insecticide on the ovary development and feeding of wild</u>	<u>http://rspb.royalsocietypublishing.org/content/284/1854/20170123</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>
Blacquiere et al.	2012	<u>Neonicotinoids in bees: a review on concentrations, side-effects and risk assessment</u>	<u>http://link.springer.com/article/10.1007/s10646-012-0863-x</u>
Botias et al.	2015	<u>NEONICOTINOID RESIDUES IN WILDFLOWERS, A POTENTIAL ROUTE OF CHRONIC EXPOSURE FOR BEES</u>	<u>http://pubs.acs.org/doi/abs/10.1021/acs.est.5b03459</u>
Botias et al.	2016	<u>Response to Comment on "Neonicotinoid Residues in</u>	<u>http://pubs.acs.org/doi/abs/10.1021/acs.est.5b06173</u>
Botias et al.	2017	<u>Quantifying exposure of wild bumblebees to mixtures of agrochemicals in agricultural and urban landscapes*</u>	<u>http://www.sciencedirect.com/science/article/pii/S0269749116321479</u>

Breeze et al.	2012	<u>The Decline of England's Bees: Policy Review and Recommendations</u>	http://www.foe.co.uk/sites/default/files/downloads/beesreport.pdf
Bryden et al.	2013	<u>Chronic sublethal stress causes bee colony failure</u>	http://onlinelibrary.wiley.com/doi/10.1111/ele.12188/full
Catae et al.	2014	<u>Cytotoxic Effects of Thiamethoxam in the Midgut and Malpighian Tubules of</u>	http://onlinelibrary.wiley.com/doi/10.1002/jemt.22339/abstract?deniedAccessCustomisedMessage=&userIsA
Center for Biological Diversity/ Kopeck	2017	<u>Pollinators in Peril A systematic status review of North American and Hawaiian native bees</u>	https://www.biologicaldiversity.org/campaigns/native_pollinators/pdfs/Pollinators_in_Peril.pdf
Chagnon et al.	2014	<u>Risks of large-scale use of systemic insecticides to ecosystem functioning and services</u>	http://link.springer.com/article/10.1007/s11356-014-3277-x
Chen & Mullin	2014	<u>Determination of nonylphenol ethoxylate and octylphenol ethoxylate surfactants in beehive samples by high performance</u>	http://www.sciencedirect.com/science/article/pii/S0308814614003896
Collison et al.	2015	<u>Interactive effects of pesticide exposure and pathogen infection on bee</u>	http://www.ncbi.nlm.nih.gov/pubmed/26150129
Cresswell et al.	2013	<u>Clearance of ingested neonicotinoid pesticide (imidacloprid) in honey bees (Apis mellifera) and bumble bees (Bombus terrestris)</u>	http://onlinelibrary.wiley.com/doi/10.1002/ps.3569/abstract?deniedAccessCustomisedMessage=&userIsAuthenticated=false
Dance et al.	2017	<u>The combined effects of a monotonous diet and exposure to thiamethoxam on the performance of</u>	https://www.ncbi.nlm.nih.gov/pubmed/28376431
David et al.	2015	<u>Widespread contamination of wildflower and bee-collected pollen with complex mixtures of</u>	http://www.ncbi.nlm.nih.gov/pubmed/26760714

de Souza Rosa et al.	2016	<u>Consumption of the neonicotinoid thiamethoxam during the larval stage affects the survival and development of the stingless bee,</u>	<u>http://link.springer.com/article/10.1007%2Fs13592-015-0424-4</u>
Delso et al.	2014	<u>Systemic insecticides (neonicotinoids and fipronil): trends, uses, mode of action and metabolites</u>	<u>http://link.springer.com/article/10.1007/s11356-014-3470-y</u>
Dively & Kamel	2012	<u>Insecticide Residues in Pollen and Nectar of a Cucurbit Crop</u>	<u>http://pubs.acs.org/doi/abs/10.1021/jf205393x</u>
EA SAC	2015	<u>Ecosystem services, agriculture and neonicotinoids</u>	<u>http://www.easac.eu/home/reports-and-statements/detail-view/article/ecosystem-se.html</u>
Ellis et al.	2017	<u>The neonicotinoid insecticide thiacloprid impacts upon bumblebee colony development under field conditions</u>	<u>http://pubs.acs.org/doi/abs/10.1021/acs.est.6b04791</u>
Elston et al.	2013	<u>Sub-lethal effects of thiamethoxam, a neonicotinoid pesticide, and propiconazole, a DMI fungicide, on colony initiation in bumblebee micro-colonies</u>	<u>http://link.springer.com/article/10.1007/s13592-013-0206-9</u>
Evans et al.	2008	<u>Status Review of Three Formerly Common Species of Bumble Bee in the Subgenus Bombus</u>	<u>http://www.xerces.org/wp-content/uploads/2008/12/xerces_2008_bombus_status_review1.pdf</u>
Farooqui	2012	<u>A potential link between biogenic amines-based pesticides, learning and</u>	<u>http://www.sciencedirect.com/science/article/pii/S0197018612003051</u>
Fausser et al.	2017	<u>Neonicotinoids override a parasite exposure impact on hibernation success of a key bumblebee pollinator</u>	<u>http://onlinelibrary.wiley.com/doi/10.1111/een.12385/abstract</u>

Fausser-Misslin et al.	2013	Influence of combined pesticide and parasite exposure on bumblebee colony traits in the laboratory	http://onlinelibrary.wiley.com/doi/10.1111/1365-2664.12188/abstract?deniedAccessCustomisedMessage=&userIsAuthenticated=false
Feltham et al.	2014	Field realistic doses of pesticide imidacloprid reduce bumblebee pollen foraging efficiency	http://link.springer.com/article/10.1007%2Fs10646-014-1189-7
Fryday et al. (FERA)	2015	Systematic literature review on the neonicotinoids (namely active substances	https://www.researchgate.net/publication/272509604_Systematic_literature_review_on_the_neonicotinoids_namely_active_substances_clothian
Gill & Raine	2014	Chronic impairment of bumblebee natural foraging behaviour induced by sublethal pesticide exposure	http://onlinelibrary.wiley.com/doi/10.1111/1365-2435.12292/abstract?deniedAccessCustomisedMessage=&userIsAuthenticated=false
Gill et al.	2012	Combined pesticide exposure severely affects individual- and colony-level traits in bees	http://www.nature.com/nature/journal/v491/n7422/abs/nature11585.html
Girolami et al.	2009	Translocation of Neonicotinoid Insecticides	http://www.bioone.org/doi/abs/10.1603/029.102.0511
Giroud et al.	2013	Trace level determination of pyrethroid and neonicotinoid insecticides in beebread using acetonitrile-based extraction followed by analysis with ultra-high-performance liquid	http://www.sciencedirect.com/science/article/pii/S0021967313015823
Godfray et al.	2014	A restatement of the natural science evidence base concerning neonicotinoid insecticides and insect pollinators	http://classic.rspb.royalsocietypublishing.org/content/281/1786/20140558.short
Godfray et al.	2015	A restatement of recent advances in the natural science evidence base concerning	http://rspb.royalsocietypublishing.org/content/282/1818/20151821

Goulson	2013	An overview of the environmental risks posed by neonicotinoid insecticides	http://onlinelibrary.wiley.com/doi/10.1111/1365-2664.12111/abstract?deniedAccessCustomisedMessage=&userIsAuthenti
Goulson	2015	Neonicotinoids impact bumblebee colony fitness in the field; a reanalysis of the	https://peerj.com/articles/854/
Goulson	2017	The Environmental Risks of neonicotinoid pesticides: a review of the evidence post-	http://biorxiv.org/content/biorxiv/early/2017/01/06/098897.full.pdf
Goulson and Nicholls	2016	The canary in the coalmine; bee declines as an indicator of environmental health	http://www.ingentaconnect.com/contentone/stl/sciprg/2016/00000099/00000003/art00005?crawler=true
Goulson et al.	2015	Bee declines driven by combined stress from parasites, pesticides, and lack	http://www.sciencemag.org/content/347/6229/1255957.short
Gross	2013	EU ban puts spotlight on complex effects of neonicotinoids	http://www.sciencedirect.com/science/article/pii/S0960982213006258
Guillén & Bielza	2013	Thiamethoxam acts as a target-site synergist of spinosad in resistant strains of <i>Frankliniella occidentalis</i>	http://www.publish.csiro.au/paper/EN15064.htm
Health Canada Pest Management Regulatory Agency.	2016	Imidacloprid	http://www.hc-sc.gc.ca/cps-spc/pest/part/consultations/_rev2016-05/rev2016-05-eng.php
Henry	2013	Assessing homing failure in honey bees exposed to pesticides: Guez's (2013)	http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3845207/
Hladik et al.	2015	Exposure of native bees foraging in an agricultural landscape to current-use pesticides	https://www.researchgate.net/profile/Kelly_Smalling/publication/283445710_Exposure_of_native_bees_foraging_in_an_agricultural_landscape_to_current-use_pesticides/links/563a105008aee
Hladik et al.	2016	Exposure of native bees foraging in an agricultural landscape to current-use pesticides	http://www.sciencedirect.com/science/article/pii/S0048969715308937

Hoy et al.	2011	<u>Observations of Brachygnathia Superior in Wild Ruminants in Western Montana, USA</u>	<u>http://socpvs.org/journals/index.php/wbp/article/viewFile/10.2461-wbp.2011.7.13/252</u>
Jin et al.	2015	<u>The neonicotinoid clothianidin interferes with navigation of the solitary bee Osmia cornuta in a laboratory</u>	<u>http://jeb.biologists.org/content/early/2015/07/22/jeb.123612</u>
Jovanov et al.	2013	<u>Development of multiresidue DLLME and QuEChERS based LC–MS/MS method for determination of selected</u>	<u>http://www.sciencedirect.com/science/article/pii/S0963996913005796</u>
Kasiotis et al.	2014	<u>Pesticide residues in honeybees, honey and bee pollen by LC–MS/MS screening: Reported death incidents in honeybees</u>	<u>http://www.sciencedirect.com/science/article/pii/S0048969714003726</u>
Kessler et al.	2015	<u>Bees prefer foods containing neonicotinoid pesticides</u>	<u>http://www.researchgate.net/publication/275361613_Bees_prefer_foods_containing_neonicotinoid_pesticides</u>
Kindemba	2009	<u>The impact of neonicotinoid insecticides on bumblebees, Honey bees and other non-target invertebrates (revised)</u>	<u>http://www.beyondpesticides.org/pollinators/Neonicotinoid%20insecticides%20report-1.pdf</u>
Larson et al.	2013	<u>Assessing Insecticide Hazard to Bumble Bees Foraging on Flowering Weeds in Treated Lawns</u>	<u>http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0066375</u>
Larson et al.	2014	<u>Impacts of a neonicotinoid, neonicotinoid–pyrethroid</u>	<u>http://www.ncbi.nlm.nih.gov/pubmed/24493235</u>
Laycock et al.	2012	<u>Effects of imidacloprid, a neonicotinoid pesticide, on reproduction in worker</u>	<u>http://link.springer.com/article/10.1007/s10646-012-0927-y</u>

Laycock et al.	2013	Effects of the neonicotinoid pesticide thiamethoxam at field-realistic levels on microcolonies of <i>Bombus terrestris</i> worker bumble bees	http://www.sciencedirect.com/science/article/pii/S0147651313004703
Lounsbury	2008	Pollinators and Pesticides Escalating crisis demands action	http://beyondpesticides.org/infoservices/pesticidesandyou/Fall08/pollinators.pdf
Lundin et al.	2015	Neonicotinoid Insecticides and Their Impacts on Bees: A Systematic Review of Research Approaches and Identification of Knowledge	http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0136928
Marzaro	2013	Corn Seed Coated with Neonicotinoids: Environmental Contamination and Bee Losses in Spring	http://paduaresearch.cab.unipd.it/5398/1/marzaro_matteo_tesi.pdf
Maxim & Arnold	2013	Pesticides and Bees	http://onlinelibrary.wiley.com/doi/10.1002/embr.201338218/full
McCurdy et al.	2017	Dew from Warm-Season Turfgrasses as a Possible Route for Pollinator	Dew from Warm-Season Turfgrasses as a Possible Route for Pollinator
Moffat et al.	2015	Chronic exposure to neonicotinoids increases neuronal vulnerability to mitochondrial dysfunction in the bumblebee (<i>Bombus terrestris</i>)	http://www.ncbi.nlm.nih.gov/pubmed/25634958
Moffat et al.	2016	Neonicotinoids target distinct nicotinic acetylcholine receptors and neurons, leading to	http://www.nature.com/articles/srep24764
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Mommaerts & Smaghe	2011	Side-Effects of Pesticides on the Pollinator <i>Bombus</i>: An Overview	http://www.intechopen.com/books/pesticides-in-the-modern-world-pests-control-and-pesticides-exposure-and-toxicity-

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Osborne	2012	Ecology: Bumblebees and pesticides	http://www.researchgate.net/publication/232533146_Ecology_Bumblebees_and_pesticides
Park et al.	2015	Negative effects of pesticides on wild bee communities can be buffered by landscape context	http://rspsb.royalsocietypublishing.org/content/282/1809/20150299
Peters et al.	2016	Large-scale monitoring of effects of clothianidin-dressed oilseed rape seeds on pollinating	http://link.springer.com/article/10.1007/s10646-016-1729-4
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Rossi et al.	2013	Brain Morphophysiology of Africanized Bee <i>Apis mellifera</i> Exposed to Sublethal Doses of Imidacloprid	http://link.springer.com/article/10.1007/s00244-013-9897-1
Rundlof et al.	2015	Seed coating with a neonicotinoid insecticide	http://www.nature.com/nature/journal/v521/n7550/abs/nature14420.htm
Samson-Robert et al.	2015	Increased Acetylcholinesterase Expression in Bumble Bees During Neonicotinoid-Coated	http://www.nature.com/articles/srep12636

Sanchez-Bayo	2014	The trouble with neonicotinoids	http://www.sciencemag.org/content/346/6211/806
Sanchez-Bayo & Goka	2014	Pesticide Residues and Bees – A Risk Assessment	http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0094482
Sánchez-Bayo and Desneux	2015	Neonicotinoids and the prevalence of parasites and disease in bees	http://tandfonline.com/doi/abs/10.1080/0005772X.2015.1118962?journalCode=tbee20
Sanchez-Bayo et al.	2016	Are bee diseases linked to pesticides? — A brief review	http://www.sciencedirect.com/science/article/pii/S0160412016300095
Sandrock et al.	2013	Sublethal neonicotinoid insecticide exposure reduces solitary bee reproductive	http://onlinelibrary.wiley.com/doi/10.1111/afe.12041/abstract?deniedAccessCustomisedMessage=&userIsAut
Scholer & Krischik	2014	Chronic Exposure of Imidacloprid and Clothianidin Reduce Queen Survival, Foraging, and Nectar Storing in Colonies of <i>Bombus impatiens</i>	http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0091573
Scott-Dupree et al.	2009	Impact of Currently Used or Potentially Useful Insecticides for Canola Agroecosystems	http://jee.oxfordjournals.org/content/102/1/177.abstract
Sgolastra et al.	2016	Synergistic mortality between a neonicotinoid insecticide and an ergosterol-biosynthesis-inhibiting fungicide in three bee species	http://onlinelibrary.wiley.com/doi/10.1002/ps.4449/abstract?systemMessage=Wiley+Online+Library+will+be+unavailable+on+Saturday+17th+December+2016+at+09%3A00+GMT%2F+04%3A00+EST%2F+17%3A00+SGT+for+4hrs+due+to+essential+maintenance.Apologies+for+the+inconvenience

Simmons and Angelini	2017	Chronic exposure to a neonicotinoid increases expression of antimicrobial peptide	Chronic exposure to a neonicotinoid increases expression of antimicrobial peptide genes in the bumblebee <i>Bombus impatiens</i>
Smaghe et al.	2013	Dietary chlorantraniliprole suppresses reproduction in worker bumblebees	http://onlinelibrary.wiley.com/doi/10.1002/ps.3504/abstract?deniedAccessCustomisedMessage=&userIsAuthenticated=false
Soares et al.	2015	Toxicity of Imidacloprid to the Stingless Bee <i>Scaptotrigona postica</i> Latreille, 1807 (Hymenoptera: Apidae)	http://link.springer.com/article/10.1007/s00128-015-1488-6#page-1
Stanley and Raine	2016	Chronic exposure to a neonicotinoid pesticide alters the interactions between bumblebees and wild plants	http://onlinelibrary.wiley.com/doi/10.1111/1365-2435.12644/abstract
Stanley et al.	2015	Neonicotinoid pesticide exposure impairs crop pollination services provided by bumblebees	http://www.ncbi.nlm.nih.gov/pubmed/26580009
Stanley et al.	2016	Investigating the impacts of field-realistic exposure to a neonicotinoid pesticide on bumblebee foraging, homing ability and colony growth	http://onlinelibrary.wiley.com/doi/10.1111/1365-2664.12689/full
Stevens & Jenkins	2013	Pesticide impacts on bumblebee declines: A missing piece	http://onlinelibrary.wiley.com/doi/10.1111/conl.12020/abstract

Stokstad	2012	Field Research on Bees Raises Concern About Low-Dose Pesticides (Science Magazine News Article)	http://www.sciencemag.org/content/335/6076/1555.short
Stokstad	2013	Pesticides Under Fire For Risks to Pollinators (Science Magazine News Article)	https://www.sciencemag.org/content/340/6133/674.short?related-urls=yes&legid=sci;340/6133/674
Stoner	2016	Current Pesticide Risk Assessment Protocols Do Not Adequately Address Differences between	https://www.researchgate.net/publication/311526846 Current Pesticide Risk Assessment Protocols Do Not Adequately Address Differences
Switzer and Combes	2016	The neonicotinoid pesticide, imidacloprid, affects Bombus impatiens (bumblebee) sonication behavior when consumed at doses below the LD50	http://link.springer.com/article/10.1007%2Fs10646-016-1669-z
Tan et al.	2014	Imidacloprid Alters Foraging and Decreases Bee Avoidance of Predators	http://www.ncbi.nlm.nih.gov/pubmed/25025334
Tapparo et al.	2012	UHPLC-DAD method for the determination of neonicotinoid insecticides in single bees and its relevance in honeybee colony loss investigations	http://link.springer.com/article/10.1007/s00216-012-6338-3#page-1
Tennekes	2010	The systemic insecticides: a disaster in the making	http://www.disasterinthemaking.com/
Thompson	2015	Extrapolation of acute toxicity across bee species	http://www.ncbi.nlm.nih.gov/pubmed/26595163

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Tome et al.	2014	<u>Spinosad in the native stingless bee Melipona quadrifasciata: Regrettable non-target toxicity of a bioinsecticide</u>	<u>http://www.sciencedirect.com/science/article/pii/S0045653514013563</u>
United States Government Accountability Office	2016	<u>USDA and EPA Should Take Additional Actions to Address Threats to Bee Populations</u>	<u>http://www.gao.gov/assets/680/675/109.pdf</u>
van der Sluijs et al.	2013	<u>Neonicotinoids, bee disorders and the sustainability of pollinator services</u>	<u>http://www.sciencedirect.com/science/article/pii/S1877343513000493</u>
van der Sluijs et al.	2014	<u>Conclusions of the Worldwide Integrated Assessment on the risks of neonicotinoids and fipronil to</u>	<u>http://link.springer.com/article/10.1007/s11356-014-3229-5#page-1</u>
Vanbergen	2013	<u>Threats to an ecosystem service: pressures on pollinators</u>	<u>http://www.esajournals.org/doi/abs/10.1890/120126</u>
Whitehorn et al.	2012	<u>Neonicotinoid Pesticide Reduces Bumble Bee Colony Growth and Queen Production</u>	<u>http://www.sciencemag.org/content/336/6079/351.short</u>
Woodcock et al.	2016	<u>Impacts of neonicotinoid use on long-term population changes in wild bees in England</u>	<u>http://www.nature.com/articles/ncomms12459</u>

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2013

Determination of seven
neonicotinoid insecticides in
beeswax by liquid
chromatography coupled to
electrospray-mass
spectrometry using a fused-
core column

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