Supplemental Materials for the paper: Pesticide exposure in small streams in Germany

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1 Data Cleaning

More then 30 datasets have been cleaned and homogenized separately, before combing into a common database. Cleaning steps comprised (Figure S1 gives a graphical overview).

- 1. Structure: Structure has been adjusted to the database structure.
- Coordinates: Coordinates have been transformed to a common Coordinate Reference System (DHDN / 3-Grad Gauss-Krüger Zone 3 (EPSG:31467) and duplicates merged.
- 3. Chemicals: Chemical names and identifiers have been unified using the webchem package (Szöcs, 2016).
- 4. Identifiers: Unique identifiers have been assigned.
- 5. Units: All concentrations have been converted to $\mu g/L$. Values below limit of quantification have be set to zero.
- 6. Other meta-data: meta-data has been standardised.
- 7. Temporal resolution: The temporal resolution of the database is 1 day. Date below this resolution has been aggregated by maximum.
- 8. Validity Checks: Simple rules for validity checks have been implemented (e.g. no negative concentrations).



Figure S1: Overview on data cleaning steps. After cleaning data has been stored in a relational spatial PostgreSQL database.

2 Catchment size - stream width relationships

We studied the relationship between catchment size based on three datasets containing this informations: Data delivered by the federal state Thuringia, Voß et al. (2015) and Fernández et al. (2015) (both from Rhineland-Palatinate). We fitted to each dataset separately and to the combined dataset a power-function. The resulting models are shown in Figure S2.

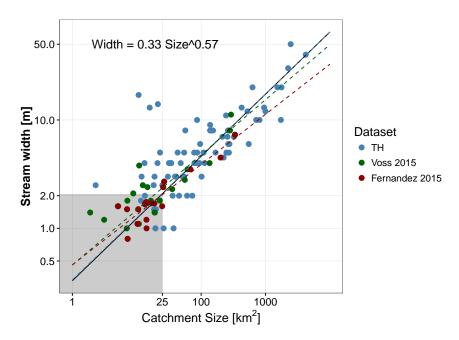


Figure S2: Relationship between catchment size and stream width. A power function has been fitted to each dataset separately and the combined dataset (black line and equation). The gray rectangle marks the estimated with for a catchment size of 25km².

3 Overview on compiled data

Table S1: Overview on chemical samples. Only data from running waters and grab sampling is shown. ^a: Abbreviations according to ISO 3166-2:DE. ^b: Including metabolites

state a	begin	end	no.sites	no.samples	no.compounds b
$\overline{_{\mathrm{BW}}}$	2005-01-03	2014-10-02	118	4569	127
BY	2006-04-19	2013-12-18	19	297	157
HE	2007-01-15	2014-12-18	68	2512	144
MV	2005-03-08	2014-12-17	135	1535	227
NI	2014-03-24	2014-10-13	3	17	226
NW	2005-01-11	2015-01-22	1320	10985	204
RP	2005-01-05	2013-12-18	44	1277	278
SH	2005-04-26	2014-11-26	273	1419	180
SL	2005-01-03	2013-12-09	6	420	57
SN	2005-01-02	2013-12-18	917	17052	173
ST	2005-01-10	2015-03-25	46	712	93
TH	2005-01-31	2014-12-10	100	1441	76
Total	2005-01-02	2015-03-25	3049	42236	484

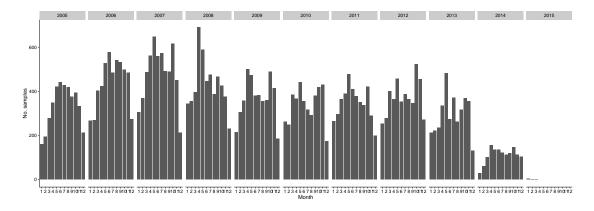


Figure S3: Number of sampling occasions per year and month.

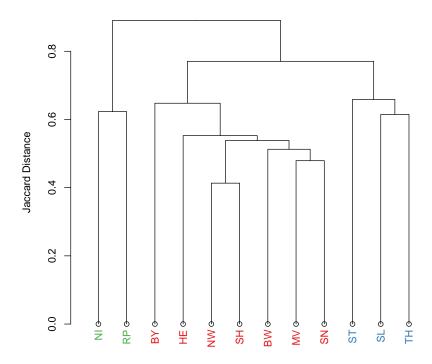


Figure S4: Complete Linkage Cluster Dendrogram of Jaccard Similarity of analysed compound spectra between federal states. Abbreviations of state names according to ISO 3166-2:DE.

Table S2: Overview on pesticides in the database. ^a Authorized in Germany (Source: BVL, 2015). ^b Authorized in the EU (Source: EU). ^c Regulatory Acceptable Concentration [ug/L] (Source: German EPA).

	Name	CAS	Group	Auth. GERª		RAC ^c
1	1,3-cis-Dichlorpropen	10061-01-5	other			
2	1,3-trans-	10061-02-6	other			
	Dichlorpropen					
3	$_{2,4-D}$	94-75-7	herbicide	X	X	1.10
4	$_{2,4\text{-DB}}$	94-82-6	herbicide		X	
5	2,4-Dichlorphenol	120-83-2	metabolite			
6	2,4,5- T	93-76-5	herbicide			
7	2,4,6-Trichlorphenol	88-06-2	metabolite			
8	2,6-Dichlorobenzamid	2008 - 58 - 4	metabolite			
9	3-Hydroxy Carbofuran	16655 - 82 - 6	metabolite			
10	4,6-Dinitro-o-Cresol	534-52-1	insecticide			
11	Acetochlor	34256 - 82 - 1	herbicide			
12	Acetochlorsäure	194992-44-4	metabolite			

13	$Acetoch lorsul fons \"{a}ure$	187022 - 11 - 3	metabolite			
14	Aclonifen	74070-46-5	herbicide	X	X	1.06
15	Alachlor	15972-60-8	herbicide			
16	Aldicarb	116-06-3	insecticide			
17	Aldrin	309-00-2	insecticide			
18	Ametryn	834-12-8	herbicide			
19	AMPA	1066-51-9	metabolite			
20	Atrazin	1912-24-9	herbicide			
21	Atrazin, 2-Hydroxy	2163-68-0	metabolite			
22	Avermectin B1a	71751-41-2	insecticide	X	X	
23	Azinphos-ethyl	2642-71-9	insecticide			
24	Azinphos-methyl	86-50-0	insecticide			
25	Azoxystrobin	131860-33-8	fungicide	X	X	0.55
26	Benalaxyl	71626-11-4	fungicide	X	X	20.00
27	Bensulfuron-met hyl	83055-99-6	herbicide		X	
28	Bentazon	25057-89-0	herbicide	X	X	710.00
29	Bifenox	42576 - 02 - 3	herbicide	X	X	
30	Bifenthrin	82657-04-3	insecticide		X	
31	Boscalid	188425 - 85 - 6	fungicide	X	X	12.50
32	Bromacil	314-40-9	herbicide			
33	Bromocyclen	1715 - 40 - 8	insecticide			
34	Bromoxynil	1689 - 84 - 5	herbicide	X	X	3.30
35	Carbendazim	10605 - 21 - 7	fungicide			0.15
36	Carbofuran	1563 - 66 - 2	insecticide			
37	Chlordan	57-74-9	insecticide			
38	Chlorfenvinphos	470-90-6	insecticide			
39	Chloridazon	1698-60-8	herbicide	X	х	56.00
40	Chloroxuron	1982-47-4	herbicide			
41	Chlorpyrifos	2921-88-2	insecticide		х	0.00
42	Chlortoluron	15545-48-9	herbicide	х	х	2.30
43	Clomazon	81777-89-1	herbicide	X	X	5.70
44	Clopyralid	1702-17-6	herbicide	х	х	1080.00
45	Clothianidin	210880-92-5	insecticide	X	x	0.01
46	Coumaphos	56-72-4	insecticide	••		0.01
47	Cyanazin	21725-46-2	herbicide			
48	Cyazofamid	120116-88-3	fungicide	x	x	
49	Cypermetryn	52315-07-8	insecticide	x	x	0.00
50	Cyprodinil	121552-61-2	fungicide	X	X	0.75
51	Demeton-O	298-03-3	insecticide	Λ	Λ	0.75
52	Demeton-S	126-75-0	insecticide			
53	Demeton-S-methyl	919-86-8	insecticide			
54	Demeton-S-methyl		insecticide			
34		17040-19-6	msecucide			
	methylsulfon	C100 CF 4				
55 50	Desethylatrazin	6190-65-4	metabolite			
56	Desethylterbuthylazin	30125-63-4				
57	Desisopropylatrazin	1007-28-9	metabolite			
58	Desmetryn	1014-69-3	herbicide			
59	Desphenyl-	6339-19-1	metabolite			
	Chloridazon					
60	Diazinon	333 - 41 - 5	insecticide			
61	Dichlorprop	120-36-5	herbicide			
62	Dichlorvos	62-73-7	insecticide			
63	Dicofol	115 - 32 - 2	insecticide			
64	Dieldrin	60 - 57 - 1	insecticide			
65	Diflufenican	83164-33-4	herbicide	X	X	0.03
66	Dimefuron	34205 - 21 - 5	herbicide			0.83
67	Dimethachlor	50563 36 5	herbicide	X	X	3.50
68	Dimethachlorsäure		metabolite			
69	Dimethachlorsulfonsäure		metabolite			

70	Dimethenamid	87674-68-8	herbicide			1.35
71	Dimethenamidsulfonsäure		metabolite			
72	Dimethoat	60 - 51 - 5	in secticide	X	X	4.00
73	Dimethomorph	110488-70-5	fungicide	X	X	5.60
74	Dimoxystrobin	149961-52-4	fungicide	X	X	0.03
75 	Disulfoton	298-04-4	insecticide			
76	Diuron	330-54-1	herbicide		X	0.79
77	Endosulfan, alpha	959-98-8	insecticide			
78	Endosulfan, beta	33213-65-9	insecticide			
79	Endrin	72-20-8	insecticide			
80	Epoxiconazol	133855-98-8	fungicide	X	X	0.54
81	Ethofenprox	80844-07-1	insecticide	X	X	0.4.00
82	Ethofumesat	26225-79-6	herbicide	X	X	24.00
83	Etrimfos	38260-54-7	insecticide			10.10
84	Fenhexamid	126833-17-8	fungicide	X	X	10.10
85	Fenit rot hion	122-14-5	insecticide			
86	Fenoprop	93-72-1	herbicide			
87	Fenpropidin	67306-00-7	fungicide	X	X	0.00
88	Fenpropimorph	67564-91-4	fungicide	X	X	0.20
89	Fenthion	55-38-9	insecticide			
90	Fenuron	101-42-8	herbicide			
91	Fluazifop-P-butyl	79241-46-6	herbicide			7.70
92	Flufenacet	142459-58-3	herbicide	X	X	2.40
93	Fluopicolide	239110-15-7	fungicide	X	X	
94	Fluoxastrobin	361377-29-9	fungicide	X	X	
95	Fluquinconazole	136426-54-5	fungicide	X	X	0.80
96	Fluroxypyr	69377-81-7	herbicide	X	X	16.00
97	Flurtamone	96525-23-4	herbicide	X	X	0.99
98	Flusilazol	85509-19-9	fungicide			1.10
99	Flutriafol	76674-21-0	fungicide		X	
100	Glufosinat	51276-47-2	herbicide	X	X	400.00
101	Glyphosate	1071-83-6	herbicide	Х	X	100.00
102	Haloxyfop	69806-34-4	herbicide			
103	HCH, gamma (Lindan)	58-89-9	insecticide			
104	Heptachlor	76-44-8	insecticide			
105	Heptachlorepoxid	1024-57-3	metabolite			
106	Heptenophos	23560-59-0	insecticide			
107	Hexachlorbenzen	118-74-1	fungicide			
108	Hexazinon	51235-04-2	herbicide			0.01
109	Imidacloprid	138261-41-3	insecticide	X	X	0.01
110	Ioxynil	1689-83-4	herbicide	X		2.70
111	Isodrin	465-73-6	insecticide			1.00
112	Isoproturon	34123-59-6	herbicide	X	X	1.30
113	Isoxaben	82558-50-7	herbicide	X	X	1.00
114	Kresoxim-methyl	143390-89-0	fungicide	X	X	1.00
115	Lenacil	2164-08-1	herbicide	X	X	0.65
116	Linuron	330-55-2	herbicide		X	
117	Malathion	121-75-5	insecticide		X	0.00
118	MCPA	94-74-6	herbicide	X	X	9.00
119	MCPB	94-81-5	herbicide		X	1.00.00
120	Mecoprop	93-65-2	herbicide		X	160.00
121	Metalaxyl	57837-19-1	fungicide		X	46.00
122	Metaldehyd	108-62-3	other	X	X	00.00
123	Metamitron	41394-05-2	herbicide	X	X	38.00
124	Metazachlor	67129-08-2	herbicide	X	X	0.88
125		1231244-60-2	metabolite			
126	Metazachlorsulfonsäure	172960-62-2	metabolite			
127	Metconazol	125116-23-6	fungicide	X	X	
128	Methabenzthiazuron	18691-97-9	herbicide			

129	Methamidophos	10265-92-6	insecticide			2.60
130	Methobromuron	3060-89-7	herbicide		X	2.00
131	Methoxychlor	72-43-5	insecticide			
132	Met hyldesphenyl-	17254-80-7	metabolite			
100	Chloridazon	#1010 AF 0	1 1 1 1 1 1			
133	Metolachlor	51218-45-2	herbicide			
134	Metolachlorsäure	152019-73-3	metabolite			
135	Met olach lorsulfonsäure	171118-09-5	metabolite			
136	Metoxuron	19937-59-8	herbicide			0.50
137	Metribuzin	21087-64-9	herbicide	Х	X	0.58
138	Mevinphos	7786-34-7	insecticide			
139	Mirex	2385-85-5	insecticide			
140	Monolinuron	1746-81-2	herbicide			a =0
141	Napropamid	15299-99-7	herbicide	X	X	6.70
142	Nicosulfuron	111991-09-4	herbicide	X	X	0.09
143	o,p-DDE	3424-82-6	metabolite			
144	o,p-DDT	789-02-6	insecticide			
145	Omethoat	1113-02-6	insecticide			
146	Oxadixyl	77732-09-3	fungicide			
147	Oxydemeton-methyl	301-12-2	insecticide			1.10
148	p,p-DDD (p,p TDE)	72-54-8	insecticide			
149	p,p-DDE	72-55-9	metabolite			
150	p,p-DDT	50-29-3	insecticide			
151	Parathion-ethyl	56-38-2	insecticide			
152	Parathion-methyl	298-00-0	insecticide			2.22
153	Penconazol	66246-88-6	fungicide	X	X	3.20
154	Pencycuron	66063-05-6	fungicide	X	X	
155	Pendimethalin	40487-42-1	herbicide	X	X	0.63
156	Pethoxamid	106700-29-2	herbicide	X	X	1.77
157	Phenmedipham	13684-63-4	herbicide	X	X	
158	Phoxim	14816-18-3	insecticide			0.01
159	Picolinafen	137641-05-5	herbicide	X	X	0.04
160	Picoxystrobin	117428 - 22 - 5	fungicide	X	X	0.60
161	Pirimicarb	23103-98-2	insecticide	X	X	0.09
162	Prochloraz	67747-09-5	fungicide	X	X	5.00
163	Prometryn	7287-19-6	herbicide			
164	Propamocarb	24579 - 73 - 5	fungicide	X	X	
165	Propanil	709-98-8	herbicide			
166	Propazin	139 - 40 - 2	herbicide			
167	Propiconazol	60207-90-1	fungicide	X	X	2.00
168	Propoxur	114 - 26 - 1	insecticide			
169	Propyzamid	23950 - 58 - 5	herbicide	X	X	34.00
170	Prosulfocarb	52888-80-9	herbicide	X	X	3.80
171	Pyraclostrobin	175013-18-0	fungicide	X	X	
172	Pyrimethanil	53112 - 28 - 0	fungicide	X	X	8.00
173	$\operatorname{Quinmerac}$	90717-03-6	herbicide	X	X	316.00
174	Quinoxyfen (5,7-	124495-18-7	fungicide	X	X	
	dichloro-4-(p-					
	fluorophenoxy)quinoline)					
175	Sebuthylazin	7286-69-3	herbicide			
176	Simazin	122 - 34 - 9	herbicide			
177	Simazin, 2-Hydroxy	2599-11-3	metabolite			
178	Spiroxamin	118134-30-8	fungicide	X	X	0.13
179	Tebuconazol	107534-96-3	fungicide	X	X	0.58
180	Terbutryn	886-50-0	herbicide			
181	Terbuthylazin	5915 - 41 - 3	herbicide	X	X	1.20
182	Thiacloprid	111988-49-9	in secticide	X	X	0.00
183	Thiamethoxam	153719 - 23 - 4	in secticide	X	X	0.04
184	Thifensulfuron-methyl	79277-27-3	herbicide			

185	Tolclofos-met hyl	57018-04-9	fungicide	х	X	
186	Tolylfluanid	731-27-1	fungicide	Λ	Λ	
187	trans-Chlordan	5103-74-2	insecticide			
188	Triadimenol	55219-65-3	fungicide	X	X	3.40
189	Triazophos	24017-47-8	insecticide			0.03
190	Tribenuron	106040-48-6	herbicide	X	X	
191	Trichlorfon	52-68-6	insecticide			
192	Trifloxystrobin	141517 - 21 - 7	fungicide	X	X	0.09
193	Trifluralin	1582 - 09 - 8	herbicide			
194	Tritosulfuron	142469 - 14 - 5	herbicide	X	X	
195	Tefluthrin	79538 - 32 - 2	insecticide	X	X	
196	tau-Fluvalinat	102851 - 06 - 9	insecticide	X	X	0.03
197	Sulcotrion	99105-77-8	herbicide	X	X	
198	Methiocarb	2032 - 65 - 7	insecticide	X	X	0.01
199	Mesotrion	104206 - 82 - 8	herbicide	X	X	
200	Fluazifop	69335-91-7	herbicide			
201	Fenoxaprop	95617-09-7	herbicide			
202	Esfenvalerat	66230-04-4	insecticide	X	X	
203	Dinoterb	1420 - 07 - 1	herbicide			
204	Dicamba	1918-00-9	herbicide	X	X	180.00
205	Deltamethrin	52918 - 63 - 5	insecticide	X	X	
206	Cyhalothrin (Summe	91465 - 08 - 6	insecticide	X	X	
	Isomere)					
207	Cyfluthrin (Summe	68359-37-5	insecticide			
200	Isomere)					
208	Chlormequat	7003-89-6	other	X	X	
209	Thiometon	640-15-3	insecticide			
210	Quintozen	82-68-8	fungicide			
211	Vinclozolin	50471-44-8	fungicide			
212	Dichlofluanid	1085-98-9	fungicide			
213	Iprodion Dinoseb	36734-19-7	fungicide	Х	X	
$\frac{214}{215}$	Mresoximsäure	88-85-7	herbicide metabolite			
$\frac{215}{216}$	Quizalofop	76578-12-6	herbicide			
217	Acifluorfen	50594-66-6	herbicide			
218	Diclofop	40843-25-2	herbicide		х	
219	Flamprop	58667-63-3	herbicide		Λ	
220	Fludioxonil	131341-86-1	fungicide	х	X	0.50
221	Anthranilsäureisopropyla		metabolite	71	71	0.00
222	Diflubenzuron	35367-38-5	insecticide		X	
223	Pyrifenox	88283-41-4	fungicide			
224	Difenoconazol	119446-68-3	fungicide	х	x	0.36
225	Amidosulfuron	120923-37-7	herbicide	X	X	0.00
226	Triasulfuron	82097-50-5	herbicide	X	X	
227	Metsulfuron	79510-48-8	herbicide	X	X	
228	Rimsulfuron	122931-48-0	herbicide	X	X	0.46
229	Triflusulfuron	135990-29-3	herbicide	X	X	
230	Methidathion	950-37-8	insecticide			
231	Triflumuron	64628-44-0	insecticide		X	
232	Fluazinam	79622-59-6	fungicide	X	X	0.26
233	Oxamyl	23135-22-0	insecticide		X	
234	Acibenzolar-S-methyl	135158 - 54 - 2	fungicide		X	
235	Bromuconazol	116255- 48 - 2	fungicide		X	
236	Carfent razon e-et hy l	128639 - 02 - 1	herbicide	X	X	0.31
237	Clodinafop-propargyl	105512 06 9	herbicide			
238	Cycloat	1134 - 23 - 2	herbicide			
239	Cyflufenamid	180409-60-3	fungicide	X	X	
240	Diniconazol	83657-24-3	fungicide			
241	Fenamidon	161326 - 34 - 7	fungicide	X	X	

242	Fenbuconazol	114369 - 43 - 6	fungicide		X	
243	Fosthiazat	98886-44-3	other	X	X	
244	Fuberidazol	3878-19-1	fungicide	X	X	
245	Hexaconazol	79983-71-4	fungicide			
246	Hexythiazox	78587-05-0	insecticide	X	X	
247	Indoxacarb	173584 - 44 - 6	insecticide	X	X	
248	Mandipropamid	374726-62-2	fungicide	X	X	7.60
249	Metrafenon	220899-03-6	fungicide	X	X	
250	Oxadiazon	19666-30-9	herbicide		X	
251	Proquinazid	189278-12-4	fungicide	X	X	
252	Tebufenpyrad	119168 - 77 - 3	insecticide	X	X	
253	Tetraconazol	112281-77-3	fungicide	X	X	
254	Zoxamid	156052 - 68 - 5	fungicide	X	X	
255	Hexaflumuron	86479-06-3	insecticide			
256	Neburon	555-37-3	herbicide			
257	Cyproconazol	94361 - 06 - 5	fungicide	X	X	
258	Fenarimol	60168-88-9	fungicide			
259	Iprovalicarb	140923 - 17 - 7	fungicide	X	X	189.00
260	Myclobutanil	88671-89-0	fungicide	X	X	2.40
261	Acetamiprid	135410 - 20 - 7	insecticide	X	X	0.24
262	Chlorfluazuron	71422 - 67 - 8	insecticide			
263	Cyromazin	66215 - 27 - 8	insecticide		X	
264	Etaconazol	60207-93-4	fungicide			
265	Ethidimuron	30043-49-3	herbicide			
266	Fenpyroximat	134098-61-6	insecticide	X	X	
267	Flazasulfuron	104040-78-0	herbicide	X	X	
268	Flufenoxuron	101463-69-8	insecticide			
269	Mepronil	55814 - 41 - 0	fungicide			
270	Methomyl	16752 - 77 - 5	insecticide		X	
271	Methoxyfenozid	161050 - 58 - 4	insecticide	X	X	
272	Pirimicarb-desmethyl	30614-22-3	metabolite			
273	Spirodiclofen	148477-71-8	insecticide	X	X	
274	Spiromesifen	283594-90-1	insecticide		X	
275	Tebufenozid	112410 - 23 - 8	insecticide	X	X	
276	Thiabendazol	148 - 79 - 8	fungicide	X	X	
277	Triflumizol	99387-89-0	fungicide		X	
278	Triforin	26644 - 46 - 2	fungicide			
279	Triticonazol	131983-72-7	fungicide	X	X	
280	Teflubenzuron	83121-18-0	insecticide		X	
281	Triadimefon	43121 - 43 - 3	fungicide			
282	cis-Chlordan	5103 - 71 - 9	insecticide			
283	Monuron	150 - 68 - 5	herbicide			
284	Propachlor	1918 - 16 - 7	herbicide			
285	Fluazifop-butyl	69806-50-4	herbicide			
286	Carbetamid	16118 - 49 - 3	herbicide		X	
287	Propetamphos	31218-83-4	insecticide			
288	Triallat	2303 - 17 - 5	herbicide		X	
289	Dichlobenil	1194 - 65 - 6	herbicide			
290	Propham	122 - 42 - 9	herbicide			
291	Endosulfansulfat	1031-07-8	metabolite			
292	Beflubutamid	113614-08-7	herbicide	X	X	
293	Flurochloridon	61213 - 25 - 0	herbicide		X	
294	Iodosulfuron	185119-76-0	herbicide	X	X	0.08
295	Metosulam	139528 - 85 - 1	herbicide	X	X	
296	Triclopyr	55335-06-3	herbicide	X	X	
297	Florasulam	145701 - 23 - 1	herbicide	X	X	
298	Famoxadone	131807-57-3	fungicide	X	X	
299	Folpet	133-07-3	fungicide	X	X	
300	Procymidon	32809-16-8	fungicide			

301	Thiophanat-methyl	23564-05-8	fungicide	X	X	
302	Fluometuron	2164-17-2	herbicide		X	
303	Bupirimat	41483-43-6	fungicide		X	
304	Carboxin	5234-68-4	fungicide		X	
305	Chlorantraniliprole	500008-45-7	insecticide	X	X	0.35
306	Dinotefuran	165252-70-0	insecticide			
307	Fenazaquin	120928-09-8	insecticide	X	X	
308	Fenoxycarb	72490-01-8	insecticide		X	
309	Flupyrsulfuron	150315-10-9	herbicide	X	X	0.05
310	Foramsulfuron	173159-57-4	herbicide	X	X	0.95
311	Imazosulfuron	122548-33-8	herbicide	X	X	
312	Mesosulfuron	400852-66-6	herbicide	X	X	
313	Prothioconazol-desthio	120983-64-4	metabolite			
314	Quinoclamin	2797-51-5	herbicide	X	X	
315	Sulfosulfuron	141776-32-1	herbicide		X	
316	Triazoxid	72459-58-6	fungicide	X	X	
317	Tribenuron-methyl	101200-48-0	herbicide			
318	Ametoctradin	865318-97-4	fungicide	X	X	
319	Clodinafop	114420-56-3	herbicide	X	X	
320	Cyclanilide	113136-77-9	other			
321	Mepanipyrim	110235-47-7	fungicide	X	X	
322	Profoxydim	139001-49-3	herbicide		X	
323	Propoxycarbazone	145026-81-9	herbicide	X	X	
324	Thiencarbazon-methyl	317815-83-1	herbicide	X	X	F 10
325	Fluopyram	658066-35-4	fungicide	X	X	5.12
326	Flutolanil	66332-96-5	fungicide	X	X	
327	Chlorthalonil-SA		metabolite			
328	Dimethachlor-CA		metabolite			
329	Dimethenamid-CA		metabolite			
330	Dimethenamid-SA		metabolite			
331	Flufenacet-SA	7FF04 00 F	metabolite			
332	Metalaxyl-CA	75596-99-5	metabolite			
333	Metazachlordicarbonsäure	104800 70 0	metabolite			
334	Metalaxyl-CA2	104390-56-9	metabolite			
335	Azoxystrobin-CA		metabolite			
336	Thiacloprid-SA		metabolite			
337	Trifloxystrobin-CA2	00100 01 0	metabolite			
338	Clethodim	99129-21-2	herbicide	X	X	
339	Cycloxidim	101205-02-1	herbicide	X	X	
340	Imazamox	114311-32-9	herbicide	X	X	
341	Imazapic	104098-48-8	herbicide			
342	Imazaquin	81335-37-7	herbicide		X	
343	Imazethapyr	81335-77-5	herbicide			
344	Meptyldinocap	131-72-6	fungicide		X	
345	Tralkoxydim	87820-88-0	herbicide		X	
346	Saflufenacil	372137-35-4	herbicide			
347	Valifenalate	283159-90-0	fungicide	X	X	
348	Fluxapyroxad	907204-31-3	fungicide	X	X	
349	Isopyrazam	881685-58-1	fungicide	X	X	
350	Penflufen	494793-67-8	fungicide		X	
351	Pyroxsulam	422556-08-9	herbicide	X	X	0.00
352	Fipronil	120068-37-3	insecticide		X	0.00
353	Hexachlorophen	70-30-4	other			
354	(E)7-(Z)9-	55774-32-8	other	X	X	
0.5.5	Dodecadienylacetat	10001111	. 1			
355	(Z)-9-Dodecenylacetat	16974-11-1	other	X	X	
356	1-Decanol	112-30-1	other	X	X	
357	1-Methylcyclopropen	3100-04-7	other	X	X	0.00
358	Acequinocyl	57960-19-7	insecticide	X	X	9.00

359	alpha-Cypermethrin	67375-30-8	insecticide	x	X	
360	Aminopyralid	150114-71-9	herbicide	X	X	
361	Amisulbrom	348635-87-0	fungicide	X	X	
362	Azadirachtin (Neem)	11141 - 17 - 6	insecticide	X	X	
363	Benthiavalicarb	413615 - 35 - 7	fungicide	X	X	
364	Benzoesäure	65-85-0	fungicide	X	X	
365	Bifenazate	149877-41-8	insecticide	X	X	
366	Bixafen	581809-46-3	fungicide	X	X	0.46
367	Bromadiolon	28772-56-7	other		X	
368	Captan	133-06-2	fungicide	X	X	5.00
369	Chlorpropham	101 - 21 - 3	herbicide	X	X	
370	Chlorthalonil	1897 - 45 - 6	fungicide	X	X	
371	Cinidon-ethyl	142891 - 20 - 1	herbicide			
372	Clofentezin	74115 - 24 - 5	insecticide		X	
373	Codlemone	33956-49-9	other	X	X	
	(Codlelure)					
374	Cymoxanil	57966-95-7	fungicide	X	X	4.40
375	$\operatorname{Daminozid}$	1596 - 84 - 5	other	X	X	
376	Deiquat	2764-72-9	herbicide	X	X	
377	Desmedipham	13684 - 56 - 5	herbicide	X	X	
378	Dichlorprop-P	15165-67-0	herbicide	X	X	
379	Difenacoum	56073 - 07 - 5	other		X	
380	Dimethenamid-P	163515 - 14 - 8	herbicide	X	X	1.35
381	Dithianon	3347 - 22 - 6	fungicide	X	X	0.78
382	Dodin	2439 - 10 - 3	fungicide	X	X	5.33
383	Fenoxaprop-p-ethyl	71283 - 80 - 2	herbicide			
384	Flonicamid	158062 - 67 - 0	insecticide	X	X	310.00
385	Fluazifop-P	83066-88-0	herbicide	X	X	146.00
386	Flumioxazin	103361 - 09 - 7	herbicide	X	X	
387	Fluroxypyr-	81406-37-3	herbicide			
	methylheptyl					
388	Fosetyl	15845-66-6	fungicide	X	X	
389	gamma-Cyhalothrin	76703-62-3	insecticide	X	X	
390	Haloxyfop-P	95977 - 29 - 0	herbicide	X	X	
391	Hymexazol	10004-44-1	fungicide	X	X	
392	Imazalil	35554 - 44 - 0	fungicide	X	X	
393	Isoxaflutole	141112 - 29 - 0	herbicide	X	X	
394	Mancozeb	8018-01-7	fungicide	X	X	0.22
395	Maneb	12427 - 38 - 2	fungicide	X	X	
396	Mepiquat	15302 - 91 - 7	other	X	X	
397	Metaflumizone	139968 - 49 - 3	insecticide	X	X	
398	Metalaxyl-M	70630-17-0	fungicide	X	X	46.00
399	Metiram	9006 - 42 - 2	fungicide	X	X	
400	Metsulfuron-methyl	74223 - 64 - 6	herbicide			
401	Milbemectin	51596 - 11 - 3	insecticide	X	X	
402	Paclobutrazol	76738 - 62 - 0	other	X	X	
403	Pelargonsäure	112 - 05 - 0	herbicide	X	X	
404	Penoxsulam	219714-96-2	herbicide	X	X	
405	Picloram	1918-02-1	herbicide	X	X	
406	Pinoxaden	243973-20-8	herbicide	X		
407	Pirimiphos-methyl	29232-93-7	insecticide	X	X	
408	Prohexadion	88805-35-0	other	X	X	
409	Propaquizafop	111479 - 05 - 1	herbicide	X	X	
410	Prosulfuron	94125 - 34 - 5	herbicide	X	X	
411	Prothioconazol	178928-70-6	fungicide	X	X	1.71
412	Pymetrozin	123312-89-0	insecticide	x	x	
413	Pyraflufen	129630 - 17 - 7	herbicide	x	x	
414	Pyridat	55512-33-9	herbicide	x	x	
415	Silthiofam	175217-20-6	fungicide	X	X	
			0			

41.0	C ' 1	160916 05 0				0.00
$\frac{416}{417}$	Spinosad Sulfurylfluorid	168316-95-8	insecticide insecticide	X	X	0.06
	·	2699-79-8		X	X	
418	Tembotrione	335104-84-2	herbicide	X	X	
419	Tepraloxydim	149979-41-9	herbicide	X	X	0.11
420	Thiram	137-26-8	fungicide	X	X	0.11
421	Topramezone	210631-68-8	herbicide	X		0.90
422	Trinexapac-ethyl	95266-40-3	other	X	X	
423	Warfarin	81-81-2	other			
424	Aziprotryn	4658 - 28 - 0	herbicide			
425	Chlorsulfuron	64902 - 72 - 3	herbicide			
426	Norflurazon	27314 - 13 - 2	herbicide			
427	Primisulfuron-methyl	86209 - 51 - 0	herbicide			
428	Pyrazophos	13457- 18 - 6	fungicide			
429	Quinalphos	13593 - 03 - 8	insecticide			
430	Secbumeton	26259 - 45 - 0	herbicide			
431	Tebutam	35256 - 85 - 0	herbicide			
432	Fluchloralin	33245-39-5	herbicide			
433	Furalaxyl	57646-30-7	fungicide			
434	Methoprotryn	841-06-5	herbicide			
435	Furmecyclox	60568-05-0	fungicide			
436	Desmet hylisoprot uron	34123-57-4	metabolite			
437	Metamitron-Desamino	36993-94-9	metabolite			
438	Orysastrobin	248593-16-0	fungicide			
439	Deset hyl-2-	66753-06-8	metabolite			
100	hydroxyterbuthylazin	00100 00 0	metabonie			
440	Icaridinsäure		metabolite			
441	Desaminomet ribuzin	35045-02-4	metabolite			
442	Karbutylat	4849-32-5	herbicide			
443	Crimidin	535-89-7	other			
444	Buturon	3766-60-7	herbicide			
445	Chlorbromuron	13360-45-7	herbicide			
446	Fenoxaprop-p	113158-40-0	herbicide	X	X	
447	Fenamiphos	22224-92-6	insecticide		X	
448	Isophenphos	25311-71-1	insecticide			
449	4,4-Methoxychlor	2132-70-9	insecticide			
450	oxi-Chlordan	27304-13-8	metabolite			
451	3-Trifluormet hylanilin	98-16-8	metabolite			
452	1-(3,4-	2327-02-8	metabolite			
	Dichlorphenyl)urea					
453	1-(4-	56046-17-4	metabolite			
	Isopropylphenyl)urea					
454	Telodrin	297-78-9	insecticide			
455	Terbumeton	33693-04-8	herbicide			
456	Nitenpyram	120738 - 89 - 8	insecticide			
457	Permethrin	52645 - 53 - 1	insecticide			
458	Quizalofop-ethyl	76578 - 14 - 8	herbicide			
459	Mefenpyr-diethyl	135591 - 00 - 3	other	X		
460	Iodosulfuron-methyl	144550 - 06 - 1	herbicide			
461	Haloxyfop-ethoxyethyl	87237-48-7	herbicide			
462	Desmethyldiuron	3567-62-2	metabolite			
463	Cloquint ocet-mexyl	99607-70-2	other		X	
464	Chlorpyriphos methyl	5598-13-0	insecticide		X	
465	Ethirimol	23947-60-6	fungicide			
466	Deset hylsimazin	6190-65-4	metabolite			
467	Nitrofen	1836-75-5	herbicide			
468	Thifenylsulfuron	79277-67-1	herbicide	х	x	
469	Acrinathrin	101007-06-1	insecticide	••	X	
470	Betacypermethrin	65731-84-2	insecticide		x	
1.0	2000 pormounin	00.01 01 2	Inscortance		41	

471	4-tert. Cyclobutylhex-	98-53-3	metabolite			
	anon					
472	Pirimiphos-ethyl	23505 - 41 - 1	insecticide			
473	Pyrethrum	8003-34-7	insecticide	x	x	0.01
474	Pyridaben	96489 - 71 - 3	insecticide		X	
475	Iodosulfuron-met hy l-	144550 - 36 - 7	herbicide			
	sodium					
476	Benazolin	3813-05-6	herbicide			
477	Chloramben	133-90-4	herbicide			
478	Chlorfenac	85-34-7	herbicide			
479	Desethylsebuthylazin	37019-18-4	metabolite			
480	Prometon	1610-18-0	herbicide			
481	Atraton	1610 - 17 - 9	herbicide			
482	Terbutylazin-		metabolite			
	Metabolit SYN 545666					
483	2-	19988-24-0	metabolite			
	Hydroxydesethylatrazin					
484	Terbutylazin-	309923-18-0	metabolite			
	Metabolit CGA 324007					

4 Thresholds for agricultural land use and catchment size

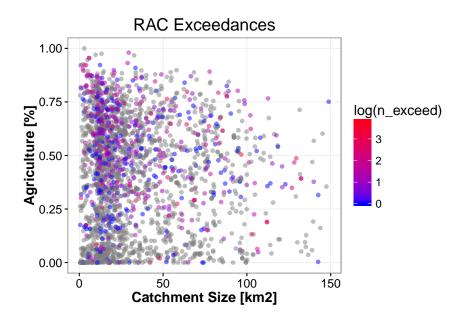


Figure S5: Raw data used for the model in equation 2 and Figure 3 of the main article. Color codes the number of RAC exceedances (on a log-scale). Grey points denote sites without any exceedance.

5 Effect of precipitation and season on RQ

Table S3: 24 pesticides for which we modelled the relationship with precipitation and seasonality. Order is the same as in Figure 5 of the articles. See Table S4 for model coefficients.

	Compound	CAS	Group	$\%{>}\mathrm{LOQ}$	$\mathrm{no.} > \mathrm{LOQ}$	total no.
1	Azoxystrobin	131860-33-8	fungicide	9.65	676	7002
2	Bentazon	25057 - 89 - 0	herbicide	19.09	2417	12660
3	Boscalid	188425 - 85 - 6	fungicide	23.24	2278	9802
4	Carbendazim	10605 - 21 - 7	fungicide	17.15	655	3819
5	Chlorpyrifos	2921-88-2	insecticide	6.38	956	14986
6	Clothianidin	210880 - 92 - 5	insecticide	6.74	158	2345
7	Diflufenican	83164-33-4	herbicide	12.71	1999	15729
8	Dimethenamid	87674-68-8	herbicide	6.17	588	9536
9	Dimoxystrobin	149961 - 52 - 4	fungicide	6.70	218	3252
10	Diuron	330-54-1	herbicide	12.24	2277	18610
11	${ m Ethofumes at}$	26225-79-6	herbicide	5.11	1036	20290
12	Flufenacet	142459 - 58 - 3	herbicide	5.93	803	13549
13	Glyphosate	1071 - 83 - 6	herbicide	40.07	1412	3524
14	Imidacloprid	138261 - 41 - 3	insecticide	6.29	197	3133
15	Isoproturon	34123-59-6	herbicide	21.99	4216	19171
16	MCPA	94-74-6	herbicide	12.61	1638	12986
17	Mecoprop	93-65-2	herbicide	12.32	1569	12732
18	Metazachlor	67129-08-2	herbicide	9.67	2130	22029
19	Nicosulfuron	111991-09-4	herbicide	5.54	280	5053
20	Penconazol	66246-88-6	fungicide	5.94	297	5004
21	Propiconazol	60207-90-1	fungicide	7.29	1054	14458
22	$\operatorname{Quinmerac}$	90717-03-6	herbicide	13.50	975	7223
23	Tebuconazol	107534 - 96 - 3	fungicide	6.01	1006	16735
24	Terbuthylazin	5915-41-3	herbicide	14.99	3395	22652

Table S4: Raw data for figure 5 in the main article. Bold values denote coefficients where the CI encompasses

	Compound	effect	$log\ precip_0$	$log\ precip_{-1}$	$season_{Q2}$	$season_{Q3}$	$season_{Q4}$
1	Azoxystrobin	μ	0.23	0.04	0.35	0.23	-0.09
			(0.16 - 0.31)	(-0.04 - 0.11)	(0.16 - 0.54)	(0.04 - 0.42)	(-0.31 - 0.13)
2	Bentazon	μ	-0.02	0.02	0.46	0.29	-0.02
			(-0.06 - 0.01)	(-0.02 - 0.05)	(0.38 - 0.55)	(0.2 - 0.37)	(-0.11 - 0.07)
3	Boscalid	μ	0.05	0.09	0.26	0.19	0.13
			(0.01 - 0.08)	(0.06 - 0.13)	(0.18 - 0.35)	(0.1 - 0.28)	(0.03 - 0.22)
4	Carbendazim	μ	-0.08	0.12	0.34	0.13	-0.08
			(-0.140.01)	(0.06 - 0.18)	(0.17 - 0.51)	(-0.04 - 0.3)	(-0.27 - 0.11)
5	Chlorpyrifos	μ	0.07	Ò	0.21	0.02	0.05
			(0.03 - 0.12)	(-0.04 - 0.05)	(0.12 - 0.3)	(-0.08 - 0.12)	(-0.06 - 0.16)

6	Clothianidin	μ	0.04	-0.05	-0.26	-0.02	0.86
			(-0.07 - 0.15)	(-0.16 - 0.06)	(-0.470.04)	(-0.28 - 0.23)	(0.6 - 1.12)
7	Diflufenican	μ	-0.03	0.06	-0.44	-0.5	-0.14
_			(-0.07 - 0.01)	(0.03 - 0.1)	(-0.530.36)	(-0.60.41)	(-0.230.06)
8	Dimethenamid	μ	-0.09	0.06	0.2	0.24	0
			(-0.160.03)	(-0.01 - 0.12)	(0.03 - 0.37)	(0.07 - 0.42)	(-0.18 - 0.18)
9	Dimoxystrobin	μ	0.35	0.02	0.73	1.1	1.14
10	D.		(0.2 - 0.5)	(-0.14 - 0.18)	(0.4 - 1.07)	(0.7 - 1.49)	(0.73 - 1.55)
10	Diuron	μ	-0.01	0.07	0.26	0.2	0.01
4.4	The Control		(-0.04 - 0.02)	(0.04 - 0.1)	(0.14 - 0.37)	(0.08 - 0.31)	(-0.12 - 0.13)
11	$\operatorname{Ethofumesat}$	μ	0.11 (0.06 - 0.17)	0.01	0.63	-0.04	0.08
10	Flufenacet		,	(-0.05 - 0.06)	(0.47 - 0.79) 0.04	(-0.21 - 0.14) 0.41	(-0.12 - 0.28) 0.07
12	riulenacei	μ	0.04 (-0.01 - 0.09)	0.04 (0 - 0.08)	(-0.09 - 0.17)	(0.25 - 0.57)	(-0.03 - 0.16)
13	Glyphosate		-0.04	0 - 0.08) 0.14	(-0.09 - 0.17) 0.22	0.55	0.18
13	Gryphosate	μ	(-0.09 - 0.02)	(0.09 - 0.19)	(0.04 - 0.39)	(0.38 - 0.73)	(-0.01 - 0.36)
14	Imidacloprid		0.08	-0.01	0.39	0.56 0.56	0.48
14	midaciopnid	μ	(-0.01 - 0.17)	(-0.09 - 0.07)	(0.13 - 0.65)	(0.3 - 0.82)	(0.18 - 0.78)
15	Isoproturon	μ	0.02	0.2	0.26	- 0.15	0.45
10	isopiotaton	μ	(-0.02 - 0.05)	(0.16 - 0.23)	(0.17 - 0.34)	(-0.240.05)	(0.37 - 0.54)
16	MCPA	μ	0.03	0.08	0.89	0.63	0.39
10	1110111	μ	(0 - 0.06)	(0.05 - 0.11)	(0.79 - 0.99)	(0.53 - 0.73)	(0.29 - 0.5)
17	Mecoprop	μ	0.04	0.05	0.68	0.5	0.19
	mesoprop	F	(0 - 0.09)	(0 - 0.09)	(0.55 - 0.82)	(0.35 - 0.64)	(0.04 - 0.35)
18	Metazachlor	μ	-0.08	0.09	0.06	0.78	0.24
		,	(-0.120.04)	(0.05 - 0.14)	(-0.06 - 0.19)	(0.67 - 0.88)	(0.13 - 0.34)
19	Nicosulfuron	μ	0.22	-0.26	0.86	1.03	0.16
		•	(0.11 - 0.32)	(-0.360.16)	(0.6 - 1.13)	(0.75 - 1.31)	(-0.12 - 0.45)
20	Penconazol	μ	0.08	0.09	1.58	2.02	0.7
			(-0.01 - 0.17)	(0.01 - 0.18)	(1.28 - 1.87)	(1.72 - 2.32)	(0.39 - 1)
21	Propiconazol	μ	0.07	0.04	0.49	0.38	0.38
			(0.02 - 0.12)	(-0.01 - 0.09)	(0.35 - 0.63)	(0.24 - 0.53)	(0.22 - 0.53)
22	Quinmerac	μ	0	0.09	0.01	0.65	0.47
			(-0.07 - 0.06)	(0.03 - 0.15)	(-0.15 - 0.17)	(0.48 - 0.81)	(0.33 - 0.61)
23	Tebuconazol	μ	-0.01	0.09	0.23	-0.06	0
			(-0.06 - 0.03)	(0.05 - 0.14)	(0.1 - 0.35)	(-0.19 - 0.07)	(-0.14 - 0.14)
24	Terbuthylazin	μ	0.09	0.12	0.87	0.36	0.09
			(0.06 - 0.13)	(0.09 - 0.15)	(0.78 - 0.97)	(0.26 - 0.46)	(-0.02 - 0.2)
25	Azoxystrobin	π	0	0.23	1.14	1.37	0.28
	v		(-0.13 - 0.13)	(0.1 - 0.35)	(0.85 - 1.44)	(1.06 - 1.68)	(-0.05 - 0.62)
26	Bentazon	π	0.01	$\stackrel{\circ}{0}.05$	0.71	0.36	-0.02
			(-0.07 - 0.09)	(-0.03 - 0.13)	(0.52 - 0.91)	(0.15 - 0.57)	(-0.23 - 0.2)
27	Boscalid	π	-0.04	0.48	0.81	0.79	0.22
			(-0.13 - 0.04)	(0.39 - 0.56)	(0.61 - 1.01)	(0.58 - 0.99)	(0.01 - 0.43)
28	Carbendazim	π	0.05	0.19	1.19	1.44	0.41
			(-0.07 - 0.18)	(0.07 - 0.32)	(0.88 - 1.5)	(1.12 - 1.76)	(0.07 - 0.75)
29	Chlorpyrifos	π	0.1	0.11	0.58	0	-0.15
			(0 - 0.19)	(0.01 - 0.2)	(0.37 - 0.79)	(-0.23 - 0.22)	(-0.39 - 0.09)
30	Clothianidin	π	0	0.21	0.08	-0.65	-0.99
			(-0.24 - 0.24)	(-0.04 - 0.45)	(-0.45 - 0.6)	(-1.240.05)	(-1.590.39)
31	Diflufenican	π	0.07	0.24	-0.53	-1.21	-0.17
			(-0.01 - 0.14)	(0.16 - 0.32)	(-0.70.35)	(-1.411.02)	(-0.35 - 0)
32	Dimethenamid	π	-0.07	0.25	0.78	0.7	0.52
			(-0.19 - 0.04)	(0.14 - 0.36)	(0.49 - 1.06)	(0.4 - 0.99)	(0.21 - 0.82)
33	Dimoxystrobin	π	0.2	0.24	1.16	0.24	-0.16
6.1	D.		(-0.02 - 0.42)	(0.01 - 0.46)	(0.66 - 1.65)	(-0.32 - 0.8)	(-0.73 - 0.41)
34	Diuron	π	0.05	0.3	(1.00 0.40)	2.12	1.16
			(-0.02 - 0.11)	(0.23 - 0.36)	(1.99 - 2.42)	(1.9 - 2.34)	(0.93 - 1.39)

35	${\rm Et hofu mesat}$	π	0.08	0.22	2.16	0.91	0.16
			(-0.01 - 0.17)	(0.13 - 0.31)	(1.91 - 2.4)	(0.63 - 1.18)	(-0.14 - 0.46)
36	Flufenacet	π	0.15	0.57	-1.17	-1.59	0.81
			(0.05 - 0.25)	(0.47 - 0.67)	(-1.440.91)	(-1.911.28)	(0.61 - 1.01)
37	Glyphosate	π	0.11	0.28	1.65	2.09	1.25
			(0 - 0.22)	(0.17 - 0.39)	(1.32 - 1.98)	(1.76 - 2.42)	(0.9 - 1.6)
38	Imidacloprid	π	0.03	-0.06	1.53	1.64	0.57
			(-0.21 - 0.28)	(-0.3 - 0.17)	(0.85 - 2.21)	(0.95 - 2.34)	(-0.18 - 1.33)
39	Isoproturon	π	0.04	0.29	0.63	-0.29	1.01
			(-0.01 - 0.09)	(0.24 - 0.34)	(0.5 - 0.75)	(-0.440.15)	(0.88 - 1.14)
40	MCPA	π	-0.05	0.34	2.52	1.97	1
			(-0.12 - 0.02)	(0.27 - 0.41)	(2.26 - 2.77)	(1.7 - 2.23)	(0.72 - 1.28)
41	Mecoprop	π	0.09	0.35	1.44	1.1	0.28
			(0.01 - 0.16)	(0.27 - 0.42)	(1.23 - 1.65)	(0.87 - 1.32)	(0.04 - 0.51)
42	Metazachlor	π	0.04	0.22	-0.39	0.7	0.75
			(-0.03 - 0.1)	(0.15 - 0.28)	(-0.560.22)	(0.55 - 0.86)	(0.6 - 0.91)
43	Nicosulfuron	π	0.23	0.23	0.91	0.85	0.57
			(0.04 - 0.41)	(0.05 - 0.41)	(0.45 - 1.37)	(0.38 - 1.32)	(0.08 - 1.05)
44	Penconazol	π	-0.05	0.54	2.31	3.67	2.15
			(-0.36 - 0.26)	(0.23 - 0.85)	(1.46 - 3.16)	(2.8 - 4.53)	(1.26 - 3.04)
45	Propiconazol	π	-0.02	0.41	1.25	1.11	0.58
			(-0.12 - 0.08)	(0.31 - 0.51)	(0.98 - 1.52)	(0.82 - 1.39)	(0.29 - 0.88)
46	$\operatorname{Quinmerac}$	π	-0.04	0.34	-0.34	-0.23	1.05
			(-0.14 - 0.06)	(0.24 - 0.44)	(-0.590.08)	(-0.5 - 0.04)	(0.82 - 1.28)
47	Tebuconazol	π	0.1	0.32	0.77	0.52	0.23
			(0 - 0.19)	(0.23 - 0.41)	(0.54 - 1)	(0.27 - 0.76)	(-0.03 - 0.48)
48	Terbuthylazin	π	0.06	0.27	1.46	1.44	0.45
			(0.01 - 0.11)	(0.22 - 0.32)	(1.32 - 1.6)	(1.29 - 1.58)	(0.3 - 0.6)

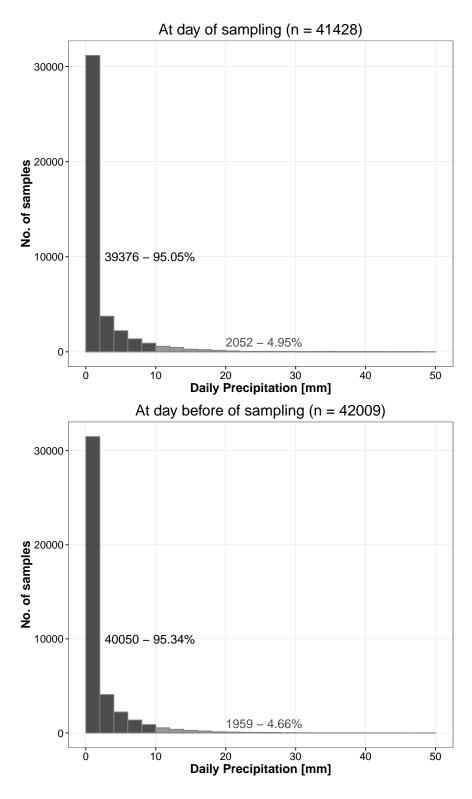


Figure S6: Distribution of precipitation at sampling occasions. top: at sampling date. bottom: at day before sampling.

6 Pesticides in small water bodies

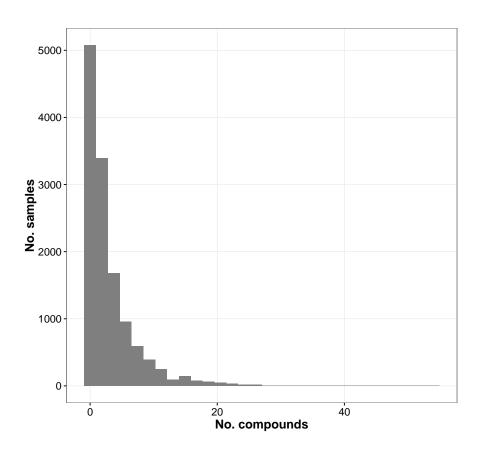


Figure S7: Distribution the number of quantified compounds in the samples from small water bodies.

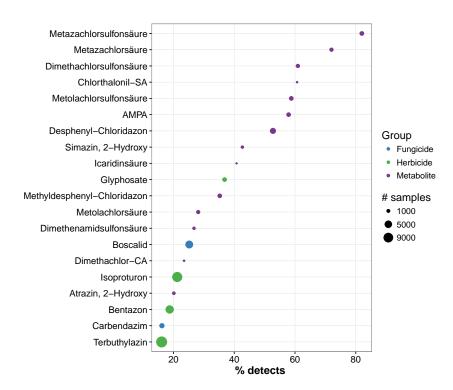


Figure S8: Proportion of samples with detects in SWB. Only Compounds with more than 100 samples and 15% of detects are show.

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