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Federal Departement
of the Environment, Transport, Energy and Communications DETEC

Federal Office for the Environment FOEN

National Groundwater Monitoring NAQUA

Federal Office for the Environment FOEN

Active substances and metabolites of pesticides in groundwater

Period of time	2019
Monitoring site	Module SPEZ and TREND
Comments	Maximum value per monitoring site

Active substance	Metabolite	Classification during the approval procedure**	Monitoring sites [number]					Monitoring sites [%]	
				Concentration				Concentration	
			sampled	≥LOQ	>0.01 µg/l	>0.1 µg/l	>1 µg/l	>0.1 µg/l	
2,4-D			522	2	2	1	-	0.2	
Atrazin			522	81	64	1	-	0.2	
(Atrazin)	2-Hydroxy-atrazin	n.ev.	149	13	10	-	-	*	
(Atrazin)	Desethyl-atrazin	rel.	522	126	106	3	-	0.6	
(Atrazin, Simazin)	Desethyl-desisopropyl-atrazin	n.ev.	24	7	6	-	-	*	
(Atrazin, Simazin)	Desisopropyl-atrazin	rel.	522	22	7	-	-	-	
Bentazon			522	13	13	2	-	0.4	
Bromacil			273	2	2	-	-	*	
Chloridazon			522	1	1	-	-	-	
(Chloridazon)	Desphenyl-chloridazon (B)	n.rel.	522	162	161	81	9	15.5	
(Chloridazon)	Methyl-desphenyl-chloridazon (B1)	n.rel.	522	106	96	23	-	4.4	
(Chlorothalonil)	Chlorthalonil R417888		464	139	138	44	2	*	
(Chlorothalonil)	Chlorthalonil R471811		108	43	43	30	3	*	
(Chlorothalonil)	Chlorthalonil SYN 507900	rel.	108	4	4	1	-	*	
Chlortoluron			522	7	3	1	-	0.2	
DEET			262	15	6	1	-	*	
Diazinon			456	1	1	-	-	*	
(Dichlobenil, Fluopicolid)	2,6-Dichlorbenzamid (BAM)	n.rel.	522	65	49	4	-	0.8	
(Dichlofluanid, Tolylfluanid)	N,N-Dimethylsulfamid	n.rel.	229	23	23	2	-	*	
Dimethachlor			188	1	1	-	-	*	
(Dimethachlor)	Dimethachlor CGA 369873	n.rel.	108	10	10	1	-	*	
(Dimethachlor)	Dimethachlor-ESA (CGA 354742)	n.rel.	301	11	10	3	-	*	
(Dimethachlor)	Dimethachlor-OXA (CGA 50266)	n.rel.	193	2	2	-	-	*	
(Dimethenamid)	Dimethenamid-ESA (M27)	n.rel.	522	2	2	-	-	-	
Diuron			522	4	1	-	-	-	
Isoproturon			522	1	-	-	-	-	
Lenacil			77	1	1	-	-	*	
Mecoprop			522	2	2	-	-	-	
Metalaxyl			188	1	1	-	-	*	
(Metamitron)	Desamino-metamitron	n.rel.	294	2	-	-	-	*	
Metazachlor			522	1	-	-	-	-	
(Metazachlor)	Metazachlor-ESA (BH 479-08)	n.rel.	522	18	18	1	-	0.2	
(Metazachlor)	Metazachlor-OXA (BH 479-04)	n.rel.	445	10	10	-	-	*	
Metolachlor			522	10	4	2	-	0.4	
(Metolachlor)	Metolachlor NOA 413173	n.ev.	108	8	8	2	-	*	
(Metolachlor)	Metolachlor-ESA (CGA 354743)	n.rel.	522	122	114	29	-	5.6	
(Metolachlor)	Metolachlor-OXA (CGA 51202)	n.rel.	522	36	35	5	-	1.0	
(Metolachlor, Acetochlor)	Metolachlor CGA 368208	n.ev.	108	3	3	1	-	*	
(Nicosulfuron)	Nicosulfuron UCSN	n.rel.	108	6	6	-	-	*	
Oxadixyl			254	1	1	-	-	*	
Prometryn und Terbutryn			8	5	-	-	-	*	
(Propachlor)	Propachlor-ESA	rel.	389	1	1	-	-	*	
Propazin			522	7	-	-	-	-	
Simazin			522	34	13	-	-	-	
Sulcotrion			226	1	1	-	-	*	
Terbuthylazin			522	15	3	-	-	-	
(Terbuthylazin)	Desethyl-terbuthylazin (MT1)	rel.	328	12	3	-	-	*	
(Terbuthylazin)	Terbuthylazin LM5	n.ev.	108	9	9	-	-	*	
(Terbuthylazin)	Terbuthylazin LM6	n.rel.	108	9	9	1	-	*	
Triclopyr			188	1	1	-	-	*	
Triclosan			8	1	1	1	-	*	

WPO numerical requirement (active substance): 0.1 µg/l

LOQ limit of quantitation
(…) active substance of the metabolite
* lack of statistical reliable data at the national scale
** FOAG/ FSVO. Relevanz von Pflanzenschutzmittel-Metaboliten im Grund- und Trinkwasser. State 10.03.21
n. ev. not evaluated during the approval procedure
rel. classified as relevant in the approval procedure
n. rel. classified as not relevant in the approval procedure