

National Groundwater Monitoring NAQUA

Federal Office for the Environment FOEN

Active substances and metabolites of plant protection products in groundwater

Period of time 2017
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 [%] | |
|------------------------------|------------------------------------------|------------------------------------------------|---------------------------|------|------------|-----------|----------------------|-----------|
| | | | sampled | ≥LOQ | >0.01 µg/l | >0.1 µg/l | >1 µg/l | >0.1 µg/l |
| 2,4-D | | | 525 | 1 | 1 | - | - | - |
| Asulam | | | 31 | 11 | 1 | - | - | * |
| Atrazin | | | 525 | 138 | 82 | 1 | - | 0.2 |
| (Atrazin) | 2-Hydroxy-atrazin | n. ev. | 173 | 29 | 15 | - | - | * |
| (Atrazin) | Desethyl-2-hydroxy-atrazin | n. ev. | 31 | 12 | - | - | - | * |
| (Atrazin) | Desethyl-atrazin | rel. | 525 | 166 | 122 | 2 | - | 0.4 |
| (Atrazin) | Desethyl-desisopropyl-atrazin | n. ev. | 31 | 30 | 21 | 2 | - | * |
| (Atrazin) | Desisopropyl-2-hydroxy-atrazin | n. ev. | 31 | 1 | - | - | - | * |
| (Atrazin) | Desisopropyl-atrazin | rel. | 525 | 39 | 9 | - | - | - |
| (Azoxystrobin) | Azoxystrobinsäure (R234886) | n. rel. | 31 | 2 | - | - | - | * |
| Bentazon | | | 525 | 33 | 22 | 2 | - | 0.4 |
| Boscalid | | | 34 | 1 | - | - | - | * |
| Carbendazim | | | 138 | 8 | - | - | - | * |
| Chloridazon | | | 525 | 7 | 1 | - | - | - |
| (Chloridazon) | Desphenyl-chloridazon | n. rel. | 525 | 178 | 167 | 77 | 8 | 14.7 |
| (Chloridazon) | Methyl-desphenyl-chloridazon | n. rel. | 525 | 129 | 111 | 19 | - | 3.6 |
| (Chlorthalonil) | Chlorthalonil-sulfonsäure (R417888) | rel. | 31 | 28 | 22 | 11 | 1 | * |
| (Chlorthalonil) | Chlorthalonil R471811 | n. rel. | 31 | 31 | 29 | 20 | 5 | * |
| (Chlorthalonil) | Chlorthalonil R611968 | rel. | 31 | 2 | 1 | - | - | * |
| (Chlorthalonil) | Chlorthalonil SYN 507900 | rel. | 31 | 13 | 6 | 1 | - | * |
| Chlortoluron | | | 525 | 10 | 2 | 2 | 1 | 0.4 |
| Clopyralid | | | 31 | 1 | 1 | - | - | * |
| (Cycloxydim) | Cycloxydim BH 517-TSO | n. ev. | 31 | 1 | - | - | - | * |
| Cycluron | | | 31 | 1 | - | - | - | * |
| Cyprodinil | | | 75 | 1 | - | - | - | * |
| DEET | | | 280 | 16 | 10 | - | - | * |
| (Dichlobenil, Fluopicolid) | 2,6-Dichlorbenzamid | n. rel. | 525 | 97 | 64 | 3 | - | 0.6 |
| (Dichlofluanid, Tolyfluanid) | N,N-Dimethylsulfamid (DMS) | n. rel. | 209 | 28 | 22 | 5 | - | * |
| Dichlorprop | | | 508 | 3 | - | - | - | * |
| (Dimethachlor) | Dimethachlor CGA 369873 | n. rel. | 31 | 28 | 13 | - | - | * |
| (Dimethachlor) | Dimethachlor-ESA (CGA 354742) | n. rel. | 174 | 13 | 9 | 1 | - | * |
| (Dimethachlor) | Dimethachlor-OXA (CGA 50266) | n. rel. | 157 | 4 | 1 | - | - | * |
| Dimethenamid | | | 346 | 1 | 1 | - | - | * |
| (Dimethenamid) | Dimethenamid-ESA | n. rel. | 525 | 2 | 2 | - | - | - |
| (Dimethenamid) | Dimethenamid-OXA | n. rel. | 181 | 1 | 1 | - | - | * |
| Dimethylaminosulfanilid | | | 31 | 1 | 1 | - | - | * |
| Diuron | | | 525 | 8 | 1 | - | - | - |
| (Fipronil) | Fipronil RPA 200761 | n. ev. | 31 | 6 | 2 | - | - | * |
| (Fludioxonil) | Fludioxonil CGA 192155 | n. ev. | 31 | 2 | 2 | 1 | - | * |
| (Flufenacet) | Flufenacet-ESA | n. ev. | 31 | 2 | 1 | - | - | * |
| (Flufenacet) | Flufenacet-OXA | n. ev. | 31 | 2 | - | - | - | * |
| (Fluxapyroxad) | Fluxapyroxad CSAA 798670 | n. ev. | 31 | 1 | 1 | - | - | * |
| (Fluxapyroxad) | Fluxapyroxad CSCD 465008 | n. ev. | 31 | 1 | 1 | - | - | * |
| (Foramsulfuron) | 4,6-Dimethoxy-pyrimidin-2-amin | n. ev. | 31 | 1 | 1 | - | - | * |
| Glyphosat | | | 158 | 1 | - | - | - | * |
| (Glyphosat) | AMPA | n. ev. | 158 | 5 | 3 | 1 | - | * |
| Imidacloprid | | | 75 | 1 | - | - | - | * |
| Isoproturon | | | 525 | 13 | 2 | 1 | - | 0.2 |
| Lenacil | | | 73 | 4 | 1 | - | - | * |
| MCPA | | | 525 | 2 | - | - | - | - |
| Mecoprop | | | 525 | 4 | 1 | - | - | - |
| (Mesotrion) | Mesotrion-MNBA | n. ev. | 31 | 1 | 1 | - | - | * |
| Metaxyl | | | 280 | 2 | 1 | - | - | * |
| (Metaxyl) | Metaxyl CGA 108906 | n. ev. | 31 | 1 | - | - | - | * |
| (Metaxyl) | Metaxylsäure CGA 62826 | n. ev. | 31 | 4 | - | - | - | * |
| Metamitron | | | 525 | 5 | 3 | - | - | - |
| (Metamitron) | Desamino-metamitron | n. rel. | 168 | 11 | 2 | - | - | * |
| Metazachlor | | | 525 | 3 | 3 | - | - | - |
| (Metazachlor) | Metazachlor-ESA (BH 479-08) | n. rel. | 415 | 13 | 12 | - | - | * |
| (Metazachlor) | Metazachlor-OXA (BH 479-04) | n. rel. | 398 | 10 | 10 | 1 | - | * |
| Methoxyfenozid | | | 75 | 2 | - | - | - | * |
| Metolachlor | | | 525 | 16 | 8 | 3 | - | 0.6 |
| (Metolachlor) | Metolachlor CGA 368208 | n. ev. | 31 | 20 | 7 | 2 | - | * |
| (Metolachlor) | Metolachlor NOA 413173 | n. ev. | 31 | 22 | 15 | 4 | - | * |
| (Metolachlor) | Metolachlor-ESA (CGA 354743) | n. rel. | 525 | 140 | 137 | 33 | - | 6.3 |
| (Metolachlor) | Metolachlor-OXA (CGA 51202) | n. rel. | 525 | 40 | 39 | 3 | - | 0.6 |
| Metoxuron | | | 209 | 2 | - | - | - | * |
| Metribuzin | | | 272 | 1 | - | - | - | * |
| Metsulfuron-methyl | | | 75 | 6 | - | - | - | * |
| Monolinuron | | | 209 | 1 | - | - | - | * |
| Monuron | | | 34 | 1 | - | - | - | * |
| Napropamid | | | 138 | 1 | 1 | - | - | * |
| Nicosulfuron | | | 31 | 4 | - | - | - | * |
| (Nicosulfuron) | Nicosulfuron AUSN | n. rel. | 31 | 17 | 10 | - | - | * |
| (Nicosulfuron) | Nicosulfuron UCSN | n. rel. | 31 | 27 | 13 | - | - | * |
| Oxadixyl | | | 272 | 2 | 1 | - | - | * |
| (Pinoxaden) | Pinoxaden NOA 407854 | rel. | 31 | 4 | - | - | - | * |
| Prometryn | | | 191 | 1 | - | - | - | * |
| Propazin | | | 525 | 4 | - | - | - | - |
| Propiconazol | | | 272 | 2 | - | - | - | * |
| Simazin | | | 525 | 60 | 15 | - | - | - |
| (Simazin) | 2-Hydroxy-simazin | n. ev. | 31 | 2 | - | - | - | * |
| Tebuconazol | | | 83 | 1 | 1 | - | - | * |
| Terbuthylazin | | | 525 | 34 | 6 | - | - | - |
| (Terbuthylazin) | Desethyl-terbuthylazin (MT1) | rel. | 238 | 32 | 9 | - | - | * |
| (Terbuthylazin) | Terbuthylazin LM2 | n. rel. | 31 | 25 | 2 | - | - | * |
| (Terbuthylazin) | Terbuthylazin LM3 | n. ev. | 31 | 27 | 17 | - | - | * |
| (Terbuthylazin) | Terbuthylazin LM5 | n. ev. | 31 | 29 | 20 | - | - | * |
| (Terbuthylazin) | Terbuthylazin LM6 | n. ev. | 31 | 29 | 15 | 1 | - | * |
| Terbutryn | | | 525 | 1 | 1 | - | - | - |
| Thiencarbazon | | | 31 | 2 | 1 | - | - | * |
| (Triasulfuron) | 2-Amino-4-methoxy-6-methyl-1,3,5-triazin | n. ev. | 31 | 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 06.08.19

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