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| REGISTRATION REPORT  Part B  Section 8  Environmental Fate  Detailed summary of the risk assessment |
| Product code: ADM.00150.I.2.A  Product name: LEAXO  Chemical active substance:  Acetamiprid, 200 g/L |
| Central Zone  Zonal Rapporteur Member State: Poland |
| CORE ASSESSMENT  (authorization according to Art. 33) |
| Applicant: Country organisation/representative as specified in Part A  Submission date: 31/01/2024  MS Finalisation date: June 2024 (initial Core Assessment)  October 2024 (final Core Assessment), update May 2025 |

Version history

|  |  |
| --- | --- |
| When | What |
| March 2023 | Original submission |
| January 2024 | Revision 1, based on a request by zRMS Poland   * Additional PECgw calculations for GAP refinements (considering only Tier 1 results), for other application timings and with surrogate crops for missing FOCUS scenarios. * Additional PECsw/sed calculations for other application timing and with surrogate crops for missing FOCUS scenario.   All changes are highlighted in yellow. |
| June 2024 | Initial zRMS assessment  The report in the dRR format has been prepared by the Applicant, therefore all comments, additional evaluations and conclusions of the zRMS are presented in grey commenting boxes. Minor changes are introduced directly in the text and highlighted in grey. Not agreed or not relevant information are ~~struck through~~ and shaded for transparency.  Following the evaluation and before sending the document for commenting, all coloured highlighting was removed, from the parts updated by the Applicant, for better legibility |
| October 2024 | Final report (Core Assessment updated following the commenting period).  Additional information/assessments included by the zRMS in the report in response to comments received from the cMS and the Applicant are highlighted in yellow. Information no longer relevant is ~~struck through~~ and shaded. |
| May 2025 | After commenting period the zRMS noted that information provided in area of soil exposure related to uses of the product in sugar beets may be confusing for the reviewers and respective corrections were thus made for clarity. Provided corrections have no impact on the obtained PECsoil values and are highlighted in yellow. |

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# Fate and behaviour in the environment (KCP 9)

## Critical GAP and overall conclusions

Table 8.1‑1: Critical use pattern of the formulated product

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Use-No.  \* | Member state(s) | Crop and/or situation  (crop destina­tion / purpose of crop) | F, Fn, Fpn  G, Gn, Gpn  or  I \*\* | Pests or Group of pests controlled  (additionally: developmental stages of the pest or pest group) | **Application** | | | | **Application rate** | | | PHI (days) | Remarks:  e.g. g safener/ synergist per ha | **Conclusion**  **Groundwater** |
| Method / Kind | Timing / Growth stage of crop & season | Max. number  a) per use  b) per crop/ season | Min. interval between applications (days) | L product/ha  a) max. rate per appl.  b) max. total rate per crop/season | g a.s./ha  a) max. rate per appl.  b) max. total rate per crop/season | Water L/ha min / max |
| Zonal uses (field or outdoor uses, certain types of protected crops) | | | | | | | | | | | | | | |
| **I** | **Central** | **Corn** | **F** | **See below** | **foliar spraying, overall** | **Jun-Aug/**  **BBCH 51-75** | **a) 1**  **b) 1** | **-** | **a) 0.3**  **b) 0.3** | **a) 60**  **b) 60** | **300-500** | **56** | **Umbrella GAP** | **A** |
| 1 | Hungary | Corn | F | *Diabrotica virgifera virgifera*  *Ostrinia nubilalis* | foliar spraying, overall | Jun-Aug/  BBCH 51-75 | a) 1  b) 1 | - | a) 0.3  b) 0.3 | a) 60  b) 60 | 300-500 | 56 | in label: 0.2-0.3 L/ha | A |
| 2 | Slovakia | Corn | F | *Diabrotica virgifera virgifera*  *Ostrinia nubilalis* | foliar spraying, overall | Jun-Aug/  BBCH 51-75 | a) 1  b) 1 | - | a) 0.3  b) 0.3 | a) 60  b) 60 | 300-500 | 56 | in label: 0.2-0.3 L/ha | A |
| 3 | Slovenia | Corn | F | *Diabrotica virgifera virgifera*  *Ostrinia nubilalis* | foliar spraying, overall | Jun-Aug/  BBCH 51-75 | a) 1  b) 1 | - | a) 0.3  b) 0.3 | a) 60  b) 60 | 300-500 | 56 | in label: 0.2-0.3 L/ha | A |
| **IIa** | **Central** | **Apple** | **F** | ***Cydia pomonella and other pests*** | **foliar spraying, overall** | **June-Aug/ BBCH 71-PHI** | **a) 1**  **b) 1** | **-** | **a) ~~0.4~~ 0.3**  **b) ~~0.4~~ 0.3** | **a) ~~80~~ 60**  **b) ~~80~~ 60** | **500-1000** | **14** | **Umbrella GAP** | **A** |
| **IIb** | **Central** | **Apple** | **F** | ***Aphids species and others pests*** | **foliar spraying, overall** | **May-Oct/**  **BBCH 62-PHI** | **a) 1-2**  **b) 1-2** | **a) 8**  **b) 8** | **a) 0.125**  **b) 0.25** | **a) 25**  **b) 50** | **500-1000** | **14** | **Umbrella GAP**;  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | **A** |
| 4 | Czech Republic | Apple | F | *Cydia pomonella, Quadraspidiotus perniciosus* | foliar spraying, overall | June-Aug/  BBCH 71-PHI | a) 1  b) 1 | - | a) ~~0.4~~ 0.3  b) ~~0.4~~ 0.3 | a) ~~80~~ 60  b) ~~80~~ 60 | 500-1000 | 14 | ~~0.25 L/10000 m² LWA~~  0.1875 L/10000 m² LWA | A |
| 5 | Czech Republic | Apple | F | *Aphis* spp. | foliar spraying, overall | Jun-Sep/  BBCH 62-PHI | a) 1-2  b) 1-2 | a) 8  b) 8 | a) 0.125  b) 0.25 | a) 25  b) 50 | 500-1000 | 14 | 0.078 L/10000 m² LWA  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 6 | Germany | Apple | F | *Cydia pomonella, Quadraspidiotus perniciosus* | foliar spraying, overall | June-Aug/  BBCH 71-PHI | a) 1  b) 1 | - | a) ~~0.4~~ 0.3  b) ~~0.4~~ 0.3 | a) ~~80~~ 60  b) ~~80~~ 60 | 500-1000 | 14 | ~~0.25 L/10000 m² LWA~~  0.1875 L/10000 m² LWA | A |
| 7 | Germany | Apple | F | *Aphis* spp. | foliar spraying, overall | Jun-Sep/  BBCH 62-PHI | a) 1-2  b) 1-2 | a) 8  b) 8 | a) 0.125  b) 0.25 | a) 25  b) 50 | 500-1000 | 14 | 0.078 L/10000 m² LWA  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 8 | Nether­lands | Apple | F | *Aphis* spp. | foliar spraying, overall | Jun-Aug/  BBCH 71-PHI | a) 1-2  b) 1-2 | a) 8  b) 8 | a) 0.125  b) 0.25 | a) 25  b) 50 | 500-1000 | 14 | 0.078 L/10000 m² LWA | A |
| 9 | Hungary | Apple | F | *Cydia pomonella, Quadraspidiotus perniciosus,  Eriosoma lanigerum,* | foliar spraying, overall | June-Oct/  BBCH 71-PHI | a) 1  b) 1 | - | a) ~~0.4~~ 0.3  b) ~~0.4~~ 0.3 | a) ~~80~~ 60  b) ~~80~~ 60 | 600-1000 | 14 | ~~in label: 0.2-0.4 L/ha~~  ~~in label: 0.125 – 0.25 L/10000 m² LWA~~  in label: 0.15-0.3 L/ha  in label: 0.09375-0.225 L / 10000 m² LWA | A |
| 10 | Hungary | Apple | F | *Aphids* spp. | foliar spraying, overall | May-Oct/  BBCH 62-PHI | a) 1-2  b) 1-2 | a) 8  b) 8 | a) 0.125  b) 0.25 | a) 25  b) 50 | 600-1000 | 14 | In label: 0.09-0.125 L/ha  0.056 – 0.078 L/10000 m² LWA;  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 11 | Poland | Apple | F | *Cydia pomonella* | foliar spraying, overall | June-Aug/  BBCH 71-PHI | a) 1  b) 1 | - | a) ~~0.4~~ 0.3  b) ~~0.4~~ 0.3 | a) ~~80~~ 60  b) ~~80~~ 60 | 500-900 | 14 | ~~0.25 L/10000 m² LWA~~  0.1875 L/10000 m² LWA | A |
| 12 | Poland | Apple | F | *Aphis* spp. | foliar spraying, overall | May-Oct/  BBCH 62-PHI | a) 1-2  b) 1-2 | a) 8  b) 8 | a) 0.125  b) 0.25 | a) 25  b) 50 | 500-900 | 14 | 0.078 L/10000 m² LWA  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 13 | Slovakia | Apple | F | *Cydia pomonella* *Quadraspidiotus perniciosus,  Eriosoma lanigerum* | foliar spraying, overall | June-Aug/  BBCH 71-PHI | a) 1  b) 1 | - | a) ~~0.4~~ 0.3  b) ~~0.4~~ 0.3 | a) ~~80~~ 60  b) ~~80~~ 60 | 500-1000 | 14 | ~~in label: 0.2-0.4 L/ha~~  ~~in label: 0.125 – 0.25 L/10000 m² LWA~~  in label: 0.15-0.3 L/ha  in label: 0.09375-0.225 L / 10000 m² LWA | A |
| 14 | Slovakia | Apple | F | *Aphis* spp. | foliar spraying, overall | May-Sep/  BBCH 62-PHI | a) 1-2  b) 1-2 | a) 8  b) 8 | a) 0.125  b) 0.25 | a) 25  b) 50 | 500-1000 | 14 | in label: 0.09-0.125 L/ha  0.056 – 0.078 L/10000 m² LWA  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 15 | Slovenia | Apple | F | *Cydia pomonella* *Quadraspidiotus perniciosus,  Eriosoma lanigerum* | foliar spraying, overall | June-Aug/  BBCH 71-PHI | a) 1  b) 1 | - | a) ~~0.4~~ 0.3  b) ~~0.4~~ 0.3 | a) ~~80~~ 60  b) ~~80~~ 60 | 500-1000 | 14 | ~~in label: 0.2-0.4 L/ha~~  ~~in label: 0.125 – 0.25 L/10000 m² LWA~~  in label: 0.15-0.3 L/ha  in label: 0.09375-0.225 L / 10000 m² LWA | A |
| 16 | Slovenia | Apple | F | *Aphids* spp. | foliar spraying, overall | May-Oct/  BBCH 62-PHI | a) 1-2  b) 1-2 | a) 8  b) 8 | a) 0.125  b) 0.25 | a) 25  b) 50 | 500-1000 | 14 | in label: 0.09-0.125 L/ha  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours!  0.056 – 0.078 L/10000 m² LWA | A |
| **III** | **Central** | **Potato** | **F** | **See below** | **foliar spraying, overall** | **May-Sep/**  **BBCH 12-79** | **a) 1**  **b) 1** | **-** | **a) 0.18  b) 0.18** | **a) 36**  **b) 36** | **100-500** | **7** | **Umbrella GAP**  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 17 | Czech Republic | Potato | F | *Leptinotarsa decemlineata*  *Myzus persicae*  *Macrosiphum euphorbia* | foliar spraying, overall | May-Sep/  BBCH 12-79 | a) 1  b) 1 | - | a) 0.18  b) 0.18 | a) 36  b) 36 | 200-500 | 7 | To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 18 | Nether­lands | Potato | F | *Leptinotarsa decemlineata*  *Myzus persicae*  *Macrosiphum euphorbia* | foliar spraying, overall | May-Sep/  BBCH 12-79 | a) 1  b) 1 | - | a) 0.18  b) 0.18 | a) 36  b) 36 | 200-400 | 7 | To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 19 | Poland | Potato | F | *Leptinotarsa decemlineata*  *Myzus persicae*  *Macrosiphum euphorbia* | foliar spraying, overall | May-Sep/  BBCH 12-79 | a) 1  b) 1 | - | a) 0.18  b) 0.18 | a) 36  b) 36 | 200-400 | 7 | To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 20 | Slovenia | Potato | F | *Leptinotarsa decemlineata*  *Myzus persicae* | foliar spraying, overall | May-Sep/  BBCH 12-79 | a) 1  b) 1 | - | a) 0.18  b) 0.18 | a) 36  b) 36 | 200-400 | 7 | in label: 0.12-0.18 L/ha  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 21 | Slovakia | Potato | F | *Leptinotarsa decemlineata* | foliar spraying, overall | May-Sep/  BBCH 12-79 | a) 1  b) 1 | - | a) 0.18  b) 0.18 | a) 36  b) 36 | 200-400 | 7 | in label: 0.12-0.18 L/ha  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 22 | Germany | Potato | F | *Leptinotarsa decemlineata*  *Myzus persicae*  *Macrosiphum euphorbia* | foliar spraying, overall | May-Sep/  BBCH 12-79 | a) 1  b) 1 | - | a) 0.18  b) 0.18 | a) 36  b) 36 | 200-500 | 7 | To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| **IVa** | **Central** | **Spring wheat Spring barley**  **Spring oats Spring Durum wheat Spring triticale** | **F** | **See below** | **foliar spraying, overall** | **Mar-Jul/**  **BBCH 40-69 (spring)** | **a) 1-2 b) 1-2** | **a) 10 b) 10** | **a) 0.175  b) 0.35** | **a) 35**  **b) 70** | **~~100~~ 200-400** | **follow crop BBCH** | **Umbrella GAP** | **A** |
| **IVb** | **Central** | **Spring wheat Spring barley**  **Spring oats Spring Durum wheat Spring triticale** | **F** | **See below** | **foliar spraying, overall** | **Mar-Jul/**  **BBCH 12-69 (spring)** | **a) 1 b) 1-2** | **a) - b) 30** | **a) 0.175  b) 0.35** | **a) 35**  **b) 70** | **~~100~~ 200-400** | **follow crop BBCH** | **Umbrella GAP**  **1 application at BBCH 12-29 followed by 1 application at BBCH 40-69.** | **C** |
| 23 | Czech Republic | Spring barley  Spring oat  Spring wheat  Spring triticale | F | Aphids | foliar spraying, overall | May-Jun/  BBCH 40 - 69 (Spring) | a) 1-2 b) 1-2 | a) 10 b) 10 | a) 0.175  b) 0.35 | a) 35  b) 70 | 200-400 | follow crop BBCH |  | A |
| 24 | Czech Republic | Spring barley  Spring oat  Spring wheat  Spring triticale | F | Aphids Virus Control | foliar spraying, overall | May-Jun/  ~~BBCH 12 - 29~~  BBCH 20 - 29 (Spring) | a) 1 ~~b) 1-2~~ b) 1 | a) - ~~b) 30~~ | a) 0.175  b) ~~0.35~~ 0.175 | a) 35  b) ~~70~~ 35 | 200-400 | follow crop BBCH | ~~1 application at BBCH 12-29 followed by 1 application at BBCH 40-69.~~ | A |
| 25 | Nether­lands | Spring barley  Spring oat  Spring wheat  Spring triticale | F | Aphids | foliar spraying, overall | May-Jul/  BBCH 40 - 69  (Spring) | a) 1-2 b) 1-2 | a) 10 b) 10 | a) 0.175  b) 0.35 | a) 35  b) 70 | 200-400 | follow crop BBCH |  | A |
| 26 | Nether­lands | Spring barley  Spring oat  Spring wheat  Spring triticale | F | Aphids Virus Control | foliar spraying, overall | Mar-Apr/  BBCH 12 - 29 (Spring) | a) 1 b) 1-2 | a) - b) 30 | a) 0.175  b) 0.35 | a) 35  b) 70 | 200-400 | follow crop BBCH | 1 application at BBCH 12-29 followed by 1 application at BBCH 40-69. | C |
| 27 | Germany | Spring barley  Spring oat  Spring wheat  Spring triticale | F | Aphids | foliar spraying, overall | Mar-Jul/  BBCH 40 - 69  (Spring) | a) 1-2 b) 1-2 | a) 10 b) 10 | a) 0.175  b) 0.35 | a) 35  b) 70 | 200-400 | follow crop BBCH |  | A |
| 28 | Germany | Spring barley  Spring oat  Spring wheat  Spring triticale | F | Aphids Virus Control | foliar spraying, overall | May-Jun/  ~~BBCH 12 - 29~~  BBCH 20 - 29 (Spring) | a) 1 ~~b) 1-2~~ b) 1 | a) - ~~b) 30~~ | a) 0.175  b) ~~0.35~~ 0.175 | a) 35  b) ~~70~~ 35 | 200-400 | follow crop BBCH | ~~1 application at BBCH 12-29 followed by 1 application at BBCH 40-69.~~ | A |
| 29 | Slovenia | Spring barley  Spring oat  Spring wheat  Spring Durum wheat  Spring triticale | F | Aphids | foliar spraying, overall | May-Jun/  BBCH 40 - 69 (Spring) | a) 1-2 b) 1-2 | a) 10 b) 10 | a) 0.175  b) 0.35 | a) 35  b) 70 | 200-400 | follow crop BBCH |  | A |
| 30 | Poland | Spring barley  Spring oat  Spring wheat  Spring triticale | F | Aphids | foliar spraying, overall | Mar-Jul/  BBCH 40 - 69  (Spring) | a) 1-2 b) 1-2 | a) 10 b) 10 | a) 0.175  b) 0.35 | a) 35  b) 70 | 200-400 | follow crop BBCH |  | A |
| 31 | Poland | Spring barley  Spring oat  Spring wheat  Spring triticale | F | Aphids Virus Control | foliar spraying, overall | May-Jun/  ~~BBCH 12 - 29~~  BBCH 20 - 29 (Spring) | a) 1 ~~b) 1-2~~ b) 1 | a) - ~~b) 30~~ | a) 0.175  b) ~~0.35~~ 0.175 | a) 35  b) ~~70~~ 35 | 200-400 | follow crop BBCH | ~~1 application at BBCH 12-29 followed by 1 application at BBCH 40-69.~~ | A |
| **Va** | **Central** | **Winter wheat, Winter barley, Winter rye,**  **Winter triticale,**  **Spelt** | **F** | **Aphids** | **foliar spraying, overall** | **May-Jul/**  **BBCH 40 - 69 (Spring)** | **a) 1-2 b) 1-2** | **a) 10 b) 10** | **a) 0.18 b) 0.36** | **a) 36**  **b) 72** | **~~100~~ 200-400** | **follow crop BBCH** | **Umbrella GAP** | **A** |
| **Vb** | **Central** | **Winter wheat, Winter barley, Winter rye,**  **Winter triticale,**  **Spelt** | **F** | **Aphids Virus Control** | **foliar spraying, overall** | **Aug-Nov/**  **BBCH 12 - 29 (Autumn)** | **a) 1 b) 1** | **-** | **a) 0.15  b) 0.15** | **a) 30**  **b) 30** | **~~100~~ 200-400** | **follow crop BBCH** | **Umbrella GAP** | **C** |
| 32 | Czech Republic | Winter wheat  Winter barley  Winter triticale  Winter rye  Spelt | F | Aphids | foliar spraying, overall | May-Jul/  BBCH 40 - 69 (Spring) | a) 1-2 b) 1-2 | a) 10 b) 10 | a) 0.18 b) 0.36 | a) 36  b) 72 | 200-400 | follow crop BBCH |  | A |
| 33 | Czech Republic | Winter wheat  Winter barley  Winter triticale  Winter rye  Spelt | F | Aphids Virus Control | foliar spraying, overall | Aug-Nov/  BBCH 12 - 29 (Autumn) | a) 1 b) 1 | - | a) 0.15  b) 0.15 | a) 30  b) 30 | 200-400 | follow crop BBCH |  | C |
| 34 | Nether­lands | Winter wheat  Winter oat  Winter barley  Winter triticale  Winter rye  Spelt | F | Aphids | foliar spraying, overall | May-Jul/  BBCH 40 – 69 (Spring) | a) 1-2 b) 1-2 | a) 10 b) 10 | a) 0.18 b) 0.36 | a) 36  b) 72 | 200-400 | follow crop BBCH |  | A |
| 35 | Nether­lands | Winter wheat  Winter oat  Winter barley  Winter triticale  Winter rye  Spelt | F | Aphids Virus Control | foliar spraying, overall | Aug-Nov/  BBCH 12 - 29 (Autumn) | a) 1 b) 1 | - | a) 0.15  b) 0.15 | a) 30  b) 30 | 200-400 | follow crop BBCH |  | C |
| 36 | Germany | Winter wheat  Winter barley  Winter triticale  Winter rye  Spelt | F | Aphids | foliar spraying, overall | May-Jul/  BBCH 40 - 69 (Spring) | a) 1-2 b) 1-2 | a) 10 b) 10 | a) 0.18 b) 0.36 | a) 36  b) 72 | 200-400 | follow crop BBCH |  | A |
| 37 | Germany | Winter wheat  Winter barley  Winter triticale  Winter rye  Spelt | F | Aphids Virus Control | foliar spraying, overall | Aug-Nov/  BBCH 12 - 29 (Autumn) | a) 1 b) 1 | - | a) 0.15  b) 0.15 | a) 30  b) 30 | 200-400 | follow crop BBCH |  | C |
| 38 | PL | Winter wheat  Winter barley  Winter triticale  Winter rye | F | Aphids Virus Control | foliar spraying, overall | Aug-Nov/  BBCH 12 - 29 (Autumn) | a) 1 b) 1 | - | a) 0.15  b) 0.15 | a) 30  b) 30 | 200-400 | follow crop BBCH |  | A |
| 39 | PL | Winter wheat  Winter barley  Winter triticale  Winter rye | F | Aphids | foliar spraying, overall | May-Jul/  BBCH 40 - 69 (Spring) | a) 1-2 b) 1-2 | a) 10 b) 10 | a) 0.18 b) 0.36 | a) 36  b) 72 | 200-400 | follow crop BBCH |  | A |
| 40 | Slovenia | Winter wheat  Winter barley  Winter triticale  Winter rye | F | Aphids Virus Control | foliar spraying, overall | Aug-Nov/  BBCH 12 - 29 (Autumn) | a) 1 b) 1 | - | a) ~~0.15~~ 0.145 b) ~~0.15~~ 0.145 | a) ~~30~~ 29  b) ~~30~~ 29 | 200-400 | follow crop BBCH |  | A |
| **VIa** | **Central** | **Winter OSR** | **F** | **See below** | **foliar spraying, overall** | **Mar-Jun/**  **BBCH 31-71 (spring)** | **a) 1-2 b) 1-2** | **a) 7 b) 7** | **a) 0.3**  **b) 0.6** | **a) 60**  **b) 120** | **100-400** | **28** | **Umbrella GAP**  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | **A** |
| **VIb** | **Central** | **Winter OSR** | **F** | **See below** | **foliar spraying, overall** | **Aug-Nov/**  **BBCH 11-19 (autumn)** | **a) 1 b) 1** | **-** | **a) ~~0.3~~ 0.240 b) ~~0.3~~ 0.240** | **a) ~~60~~ 48**  **b) ~~60~~ 48** | **100-200** | **28** | **Umbrella GAP** | **A** |
| 41 | Czech Republic | Winter OSR | F | *Ceutorhynchus napi,  C. quadridens* | foliar spraying, overall | Mar-Jun/  BBCH 31-59 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 |  | A |
| 42 | Czech Republic | Winter OSR | F | *Meligethes aeneus* | foliar spraying, overall | Apr-Jun/  BBCH 50-59 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 |  | A |
| 43 | Czech Republic | Winter OSR | F | *Dasyneura brassicae, Ceutorhynchus obstrictus (syn assimilis)* | foliar spraying, overall | May-Jun/  BBCH 61-71 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 | To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 44 | Czech Republic | Winter OSR | F | *Psylliodes chrysocephala*  *Phyllotreta* Spp.  (Flea beetle) | foliar spraying, overall | Sep-Oct/  BBCH 11-19 (autumn) | a) 1 b) 1 | - | a) ~~0.3~~ 0.240 b) ~~0.3~~ 0.240 | a) ~~60~~ 48  b) ~~60~~ 48 | 200-400 | 28 |  | A |
| 45 | Czech Republic | Winter OSR | F | Aphid vectors of Turnip yellow virus - *Myzus persicae* | foliar spraying, overall | Aug-Nov/  BBCH 11-19 (autumn) | a) 1 b) 1 | - | a) 0.2  b) 0.2 | a) 40  b) 40 | 200-400 | 28 |  | A |
| 46 | Hungary | Winter OSR | F | *Ceutorrhynchus napi,  C. quadriens* | foliar spraying, overall | Mar-May/  BBCH 31-69 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 | In label: 0.15-0.3 L/ha  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 47 | Hungary | Winter OSR | F | *Dasyneura brassicae, Ceutorhynchus obstrictus (syn assimilis)* | foliar spraying, overall | Mar-May/  BBCH 31-71 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 | In label:  *C. obstrictus* 0.15-0.3 L/ha *D. brassicae* 0.18-0.3 L/ha  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 48 | Hungary | Winter OSR | F | *Meligethes aeneus* | foliar spraying, overall | Mar-May/  BBCH 50-59 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 | In label: 0.18-0.3 L/ha | A |
| 49 | Poland | Winter OSR | F | *Meligethes aeneus* | foliar spraying, overall | May-Jun/  BBCH 50-59 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 |  | A |
| 50 | Poland | Winter OSR | F | *Dasyneura brassicae, Ceutorhynchus obstrictus (syn assimilis)* | foliar spraying, overall | May-Jun/  BBCH 61-71 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 | To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 51 | Poland | Winter OSR | F | *Ceutorhynchus napi,  C. quadridens* | foliar spraying, overall | Mar-Jun/  BBCH 31-59 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 |  | A |
| 52 | Poland | Winter OSR | F | *Psylliodes chrysocephala* | foliar spraying, overall | Sep-Oct/  BBCH 11-19 (autumn) | a) 1 b) 1 | - | a) ~~0.3~~ 0.240 b) ~~0.3~~ 0.240 | a) ~~60~~ 48  b) ~~60~~ 48 | 200-400 | 28 |  | A |
| 53 | Slovakia | Winter OSR | F | *Ceutorhynchus napi,  C. quadridens* | foliar spraying, overall | Mar-Jun/  BBCH 31- 69 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 | In label: 0.15-0.3 L/ha  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 54 | Slovakia | Winter OSR | F | *Meligethes aeneus* | foliar spraying, overall | Mar-Jun/  BBCH 50- 59 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 | In label: 0.18-0.3 L/ha | A |
| 55 | Slovakia | Winter OSR | F | *Dasyneura brassicae, Ceutorhynchus obstrictus (syn. assimilis)* | foliar spraying, overall | May-Jun/  BBCH 61- 71 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 | In label:  *C. obstrictus* 0.15-0.3 L/ha *D. brassicae* 0.18-0.3 L/ha  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 56 | Germany | Winter OSR | F | *Ceutorhynchus napi,  C. quadridens* | foliar spraying, overall | Mar-Jun/  BBCH 31-59 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 |  | A |
| 57 | Germany | Winter OSR | F | *Meligethes aeneus* | foliar spraying, overall | Apr-Jun/  BBCH 50-59 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 |  | A |
| 58 | Germany | Winter OSR | F | *Dasyneura brassicae, Ceutorhynchus obstrictus (syn assimilis)* | foliar spraying, overall | May-Jun/  BBCH 61-71 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 | To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 59 | Germany | Winter OSR | F | *Psylliodes chrysocephala Phyllotreta* Spp.  (Flea beetle) | foliar spraying, overall | Aug-Nov/  BBCH 11-19 (autumn) | a) 1 b) 1 | - | a) ~~0.3~~ 0.240 b) ~~0.3~~ 0.240 | a) ~~60~~ 48  b) ~~60~~ 48 | 200-400 | 28 |  | A |
| 60 | Germany | Winter OSR | F | Aphid vectors of Turnip yellow virus - *Myzus persicae* | foliar spraying, overall | Aug-Nov/  BBCH 11-19 (autumn) | a) 1 b) 1 | - | a) 0.2  b) 0.2 | a) 40  b) 40 | 200-400 | 28 |  | A |
| 61 | Germany | Winter OSR | F | *Ceutorhynchus picitarsis* (Rape winter stem weevil) | foliar spraying, overall | Oct-Nov/  BBCH 13-17 | a) 1 b) 1 | - | a) ~~0.3~~ 0.240 b) ~~0.3~~ 0.240 | a) ~~60~~ 48  b) ~~60~~ 48 | 200-400 | 28 |  | A |
| 62 | Slovenia | Winter OSR | F | *Ceutorhynchus napi,  C. quadridens* | foliar spraying, overall | Mar-Jun/  BBCH 31-59 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 |  | A |
| 63 | Slovenia | Winter OSR | F | *Meligethes aeneus* | foliar spraying, overall | Apr-Jun/  BBCH 50-59 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 |  | A |
| 64 | Slovenia | Winter OSR | F | *Dasyneura brassicae, Ceutorhynchus obstrictus (syn assimilis)* | foliar spraying, overall | May-Jun/  BBCH 61-71 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 | To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours!  in label: C. obstrictus 0.15-0.3 L/ha D. brassicae 0.18-0.3 L/ha | A |
| 65 | Slovenia | Winter OSR | F | *Psylliodes chrysocephala* | foliar spraying, overall | Sep-Oct/  BBCH 11-19 (autumn) | a) 1 b) 1 | - | a) ~~0.3~~ 0.240 b) ~~0.3~~ 0.240 | a) ~~60~~ 48  b) ~~60~~ 48 | 200-400 | 28 |  | A |
| **VIIa** | **Central** | **Spring OSR** | **F** | **See below** | **foliar spraying, overall** | **Apr-Aug/**  **BBCH 31-71** | **a) 1-2 b) 1-2** | **a) 7 b) 7** | **a) 0.3**  **b) 0.6** | **a) 60**  **b) 120** | **100-400** | **28** | **Umbrella GAP**.  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 66 | Germany | Spring OSR | F | *Ceutorhynchus napi,  C. quadridens* | foliar spraying, overall | Mar-Jun/  BBCH 31-59 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3 b) 0.6 | a) 60  b) 120 | 200-400 | 28 |  | A |
| 67 | Germany | Spring OSR | F | *Meligethes aeneus* | foliar spraying, overall | Apr-Jun/  BBCH 50-59 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 |  | A |
| 68 | Germany | Spring OSR | F | *Dasyneura brassicae, Ceutorhynchus obstrictus (syn assimilis)* | foliar spraying, overall | May-Jun/  BBCH 61-71 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 | To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 69 | Poland | Spring OSR | F | *Meligethes aeneus* | foliar spraying, overall | Apr-Jun/  BBCH 50-59 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 |  | A |
| 70 | Poland | Spring OSR | F | *Dasyneura brassicae, Ceutorhynchus obstrictus (syn assimilis)* | foliar spraying, overall | May-Jun/  BBCH 61-71 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 | To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 71 | Slovakia | Spring OSR | F | *Ceutorhynchus napi,  C. quadridens* | foliar spraying, overall | Mar-Jun/  BBCH 31-59 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 | In label: 0.15-0.3 L/ha | A |
| 72 | Slovakia | Spring OSR | F | *Meligethes aeneus* | foliar spraying, overall | Apr-Jun/  BBCH 50-59 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 | In label: 0.18-0.3 L/ha | A |
| 73 | Slovakia | Spring OSR | F | *Dasyneura brassicae, Ceutorhynchus obstrictus (syn assimilis)* | foliar spraying, overall | May-Jun/  BBCH 61-71 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 | In label:  *C. obstrictus* 0.15-0.3 L/ha *D. brassicae* 0.18-0.3 L/ha  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 74 | Hungary | Spring OSR | F | *Ceutorhynchus napi,  C. quadridens* | foliar spraying, overall | Mar-Jun/  BBCH 31-59 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 | In label: 0.15-0.3 L/ha | A |
| 75 | Hungary | Spring OSR | F | *Meligethes aeneus* | foliar spraying, overall | Apr-Jun/  BBCH 50-59 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 | In label: 0.18-0.3 L/ha | A |
| 76 | Hungary | Spring OSR | F | *Dasyneura brassicae, Ceutorhynchus obstrictus (syn assimilis)* | foliar spraying, overall | May-Jun/  BBCH 61-71 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 | In label: 0.15-0.3 L/ha D. brassicae 0.18-0.3 L/ha  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 77 | Czech Republic | Spring OSR | F | *Ceutorhynchus napi,  C. quadridens* | foliar spraying, overall | Mar-Jun/  BBCH 31-59 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 |  | A |
| 78 | Czech Republic | Spring OSR | F | *Meligethes aeneus* | foliar spraying, overall | Apr-Jun/  BBCH 50-59 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 |  | A |
| 79 | Czech Republic | Spring OSR | F | *Dasyneura brassicae, Ceutorhynchus obstrictus (syn assimilis)* | foliar spraying, overall | May-Jun/  BBCH 61-71 | a) 1-2 b) 1-2 | a) 7 b) 7 | a) 0.3  b) 0.6 | a) 60  b) 120 | 200-400 | 28 | To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| **VIIIa** | **Central** | **Sugar beet** | **F** | **See below** | **foliar spraying, overall** | **Apr-Aug/**  **BBCH 12-39** | **a) 2 b) 2** | **a) 7 b) 7** | **a) 0.25**  **b) 0.5** | **a) 50**  **b) 100** | **200-400** | **35** | **Umbrella GAP** | **C** |
| 80 | Poland | Sugar beet | F | *Myzus persicae*  *Aphis fabae*  *Macrosiphum euphorbiae* | foliar spraying, overall | Apr-Aug/  BBCH 12-39 | ~~a) 2 b) 2~~ a) 1 b) 1 | ~~a) 7 b) 7 -~~ | a) 0.25  b) ~~0.5~~ 0.25 | a) 50  b) ~~100~~ 50 | 200-400 | 35 | Biennial application | R  Biennial application |
| 81a | Germany | Sugar beet | F | *Myzus persicae*  *Aphis fabae*  *Macrosiphum euphorbiae* | foliar spraying, overall | Apr-Aug/  BBCH 12-39 | a) 2 b) 2 | a) 7 b) 7 | a) 0.25  b) 0.5 | a) 50  b) 100 | 200-400 | 35 | Triennial application | C |
| 81b | Germany | Sugar beet | F | *Myzus persicae*  *Aphis fabae*  *Macrosiphum euphorbiae* | foliar spraying, overall | Apr-Aug/  BBCH 12-39 | a) 1 b) 1 | ~~-~~ | a) 0.25  b) 0.25 | a) 50  b) 50 | 200-400 | 35 | Biennial application | R  Biennial application |
| 82 | Netherlands | Sugar beet | F | *Myzus persicae*  *Aphis fabae*  *Macrosiphum euphorbiae* | foliar spraying, overall | Apr-Aug/  BBCH 12-39 | a) 2 b) 2 | a) 7 b) 7 | a) 0.25  b) 0.5 | a) 50  b) 100 | 200-400 | 35 | Triennial application | C |
| 83a | Czech Republic | Sugar beet | F | *Myzus persicae*  *Aphis fabae*  *Macrosiphum euphorbiae* | foliar spraying, overall | Apr-Aug/  BBCH 12-39 | a) 2 b) 2 | a) 7 b) 7 | a) 0.25  b) 0.5 | a) 50  b) 100 | 200-400 | 35 | Triennial application | C |
| 83b | Czech Republic | Sugar beet | F | *Myzus persicae*  *Aphis fabae*  *Macrosiphum euphorbiae* | foliar spraying, overall | Apr-Aug/  BBCH 12-39 | a) 1 b) 1 | ~~-~~ | a) 0.25  b) 0.25 | a) 50  b) 50 | 200-400 | 35 | Biennial application | R  Biennial application |
| 84 | Slovenia | Sugar beet | F | *Myzus persicae*  *Aphis fabae*  *Macrosiphum euphorbiae* | foliar spraying, overall | Apr-Aug/  BBCH 12-39 | ~~a) 2 b) 2~~ a) 1 b) 1 | ~~a) 7 b) 7 -~~ | a) 0.25  b) ~~0.5~~ 0.25 | a) 50  b) ~~100~~ 50 | 200-400 | 35 | Biennial application | R  Biennial application |
| **IXa** | **Central** | **Flower bulbs and flower tubers** | **F** | ***Aphids*** | **foliar spraying, overall** | **Mar-Jul/**  **BBCH 12-91** | **a) 1  b) 1** | **-** | **a) 0.23**  **b) 0.23** | **a) 46**  **b) 46** | **200-400** | **n.a.** | **Umbrella GAP**  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | **C** |
| **IXb** | **Central** | **Flower bulbs and flower tubers** | **F** | **Aphids** | **foliar spraying, overall** | **Mar-Jul/**  **BBCH** 20**-91** | **a) 2 b) 2** | **a) 7 b) 7** | **a) 0.17**  **b) 0.34** | **a) 34**  **b) 68** | **200-400** | **n.a.** | **Umbrella GAP**  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | **C** |
| 85 | Netherlands | Flower bulbs and flower tubers | F | *Aphids* | foliar spraying, overall | Mar-Jul/  BBCH 12-91 | a) 1  b) 1 | - | a) 0.23  b) 0.23 | a) 46  b) 46 | 200-400 | n.a. | To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | C |
| 86 | Netherlands | Flower bulbs and flower tubers | F | *Aphids* | foliar spraying, overall | Mar-Jul/  BBCH 20-91 | a) 2 b) 2 | a) 7 b) 7 | a) 0.17  b) 0.34 | a) 34  b) 68 | 200-400 | n.a. | To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | C |
| 87 | Slovenia | Flower bulbs and flower tubers | F | *Aphids* | foliar spraying, overall | Mar-Jul/  BBCH 12-91 | ~~a) 2 b) 2~~ a) 1 b) 1 | ~~a) 7 b) 7~~ - | a) 0.17  b) ~~0.34~~ 0.17 | a) 34  b) ~~68~~ 34 | 200-400 | n.a. | To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| **Xa** | **Central** | **Floriculture,** **Tree nursery & Perennial nursery crops** | **F** | ***Aphids*** | **foliar spraying, overall** | **Mar-Aug/**  **BBCH 12-91** | **a) 1  b) 1** | **-** | **a) 0.23**  **b) 0.23** | **a) 46**  **b) 46** | **200-1000** | **n.a.** | **Umbrella GAP**  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | **A** |
| **Xb** | **Central** | **Floriculture,** **Tree nursery & Perennial nursery crops** | **F** | ***Aphids*** | **foliar spraying, overall** | **Mar-Aug/**  **BBCH 12-91** | **a) 2 b) 2** | **a) 7 b) 7** | **a) 0.17**  **b) 0.34** | **a) 34**  **b) 68** | **200-1000** | **n.a.** | **Umbrella GAP**  To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | **C** |
| 88 | Netherlands | Floriculture crops Tree nursery crops  Perennial nursery crops | F | *Aphids* | foliar spraying, overall | Mar-Aug/  BBCH 12-91 | a) 1  b) 1 | - | a) 0.23  b) 0.23 | a) 46  b) 46 | 200-1000 | n.a. | To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |
| 89 | Netherlands | Floriculture crops Tree nursery crops  Perennial nursery crops | F | *Aphids* | foliar spraying, overall | Mar-Aug/  BBCH 12-91 | a) 2 b) 2 | a) 7 b) 7 | a) 0.17  b) 0.34 | a) 34  b) 68 | 200-1000 | n.a. | To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | C |
| 90 | Slovenia | Floriculture crops Tree nursery crops  Perennial nursery crops | F | *Aphids* | foliar spraying, overall | Mar-Aug/  BBCH 12-91 | ~~a) 2 b) 2~~ a) 1 b) 1 | ~~a) 7 b) 7~~ - | a) 0.17  b) ~~0.34~~ 0.17 | a) 34  b) ~~68~~ 34 | 200-1000 | n.a. | To protect bees and pollinating insects, application during flowering against pests is possible only out of honey bee flight during late evening hours! | A |

\* Use number(s) in accordance with the list of all intended GAPs in Part B, Section 0 should be given in column 1

\*\* F: professional field use, Fn: non-professional field use, Fpn: professional and non-professional field use, G: professional greenhouse use, Gn: non-professional greenhouse use, Gpn: professional and non-professional greenhouse use, I: indoor application

Explanation for column 15 “Conclusion”

|  |  |
| --- | --- |
| A | Safe use |
| R | Further refinement and/or risk mitigation measures required |
| C | To be confirmed by cMS |
| N | No safe use |

Table 8.1‑2: Assessed (critical) uses during approval of acetamiprid concerning the Section Environmental Fate

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| Use-No. | Member state(s) | Crop and/or situation  (crop destination / purpose of crop) | F, Fn, Fpn G, Gn, Gpn or I \*\* | Pests or Group of pests controlled  (additionally: developmental stages of the pest or pest group) | Application | | | | Application rate | | | PHI  (days) | Remarks:  e.g. g saf­ener/ syner­gist per ha |
| Method / Kind | Timing / Growth stage of crop & season | Max. number  a) per use  b) per crop/ season | Min. interval between applications (days) | L product/ha  a) max. rate per appl.  b) max. total rate per crop/season | kg a.s./ha a) max. rate per appl.  b) max. total rate per crop/season | Water L/ha  min/max |
| 1 | EU | Tomato | G | Aphids | Foliar | BBCH 61 – 89 (January ‑ December) | a) 2  b) 2 | a) 7  b) 7 | a) 0.5  b) 1.0 | a) 0.100  b) 0.200 | 300 - 1500 | 3 | Use in greenhouse is in permanent structure |
| 2 | EU | Pome fruit | F | Aphids | Foliar | BBCH 77 – 87 (June – September) | a) 2  b) 2 | a) 14  b) 14 | a) 0.375  b) 0.750 | a) 0.075  b) 0.150 | 300 - 1000 | 14 |  |
| 3 | EU | Potato | F | Colorado potato beetle / aphids | Foliar | BBCH 45 – 93 (May – October) | a) 3  b) 3 | a) 7  b) 7 | a) 0.250  b) 0.750 | a) 0.05  b) 0.150 | 400 - 600 | 7 |  |

\*\* F: professional field use, Fn: non-professional field use, Fpn: professional and non-professional field use, G: professional greenhouse use, Gn: non-professional greenhouse use, Gpn: professional and non-professional greenhouse use, I: indoor application

## Metabolites considered in the assessment

Table 8.2‑1: Metabolites of acetamiprid potentially relevant for exposure assessment

| Metabolite | Molar mass | Chemical structure | Maximum observed occurrence in compartments | Exposure assessment required due to |
| --- | --- | --- | --- | --- |
| IM-1-2 | 240.69 |  | Maximum in soil: 55%  Maximum in water/sediment: 13.4% | PECGW: not covered by EU assessment  PECSoil: not covered by EU assessment  PECSW/SED: not covered by EU assessment |
| IM-1-4 | 156.61 |  | Maximum in soil: 72%  Maximum in water/sediment: 43%, 81.5% \* | PECGW: not covered by EU assessment  PECSoil: not covered by EU assessment  PECSW/SED: not covered by EU assessment |
| IM-1-5 | 197.66 |  | Maximum in soil: 20%  (calcareous soils only) | PECGW: not covered by EU assessment  PECSoil: not covered by EU assessment  PECSW/SED: not covered by EU assessment (formation in soil only) |
| IC-0  6-Chloronicotinic  Acid (IV-0) | 157.55 |  | Maximum in soil: 11.3%  Maximum in water/sediment: 29.5% | PECGW: not covered by EU assessment  PECSoil: not covered by EU assessment  PECSW/SED: not covered by EU assessment |
| IB-1-1 | 204.23 |  | Maximum in water/sediment: 35% \*\* | PECSW/SED: not covered by EU assessment (formation in water only) |

\*Observed in aerobic mineralisation study and used for the risk assessment

\*\*Formed only via aqueous photochemical degradation

|  |
| --- |
| **zRMS comments:**  Information regarding acetamiprid metabolites is in line with EU agreed endpoints reported in EFSA Journal 2016;14(11):4610. |

## Rate of degradation in soil (KCP 9.1.1)

Studies on degradation in soil with the formulation were not performed since it is possible to extrapolate from data obtained with the active substance.

The rate of degradation of acetamiprid in soil was evaluated during the EU review **(EFSA Journal 2016;14(11):4610)**. Four major metabolites (> 10% applied radioactivity (AR)) – IM-1-2, IM-1-4, IC-0, and IM-1-5 (calcareous soils only) – were identified. The metabolites IM-1-2, IC-0 and IM-1-5 were only formed in relevant amounts through the aerobic degradation pathway. They were found at levels of 55% AR (IM-1-2), 11.3% AR (IC-0) and 20% AR (IM-1-5). The metabolite IM-1-4 formed in soil via aerobic degradation (72% AR), anaerobic degradation (46.7% AR) and through photolysis. In the photolysis study, formation on irradiated samples was 46.5% AR and on dark control samples 65.3% AR, hence photolysis is not the major route of degradation.

Aerobic and anaerobic degradation pathways are illustrated in Figure 8.3‑1 and Figure 8.3‑2.

Figure 8.3‑1: Proposed pathway of acetamiprid degradation in soil under aerobic conditions

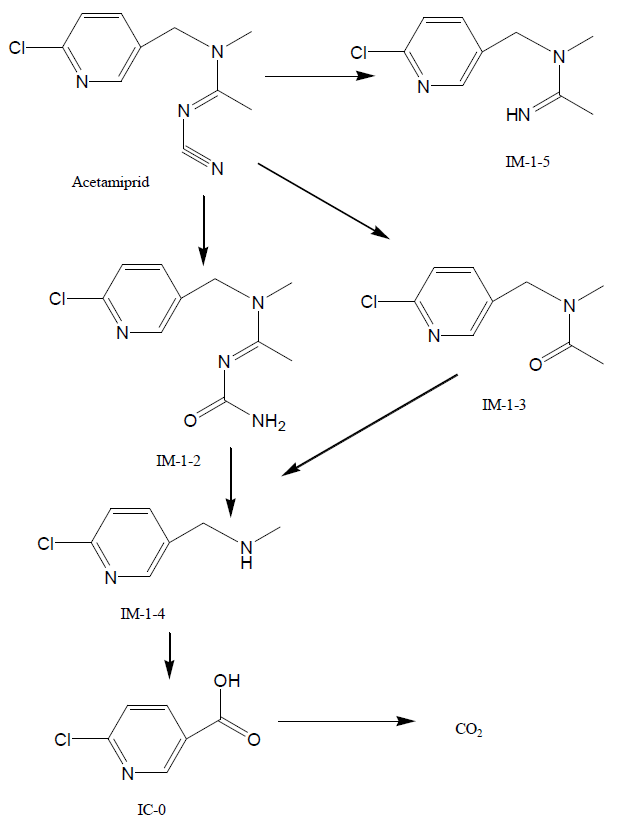
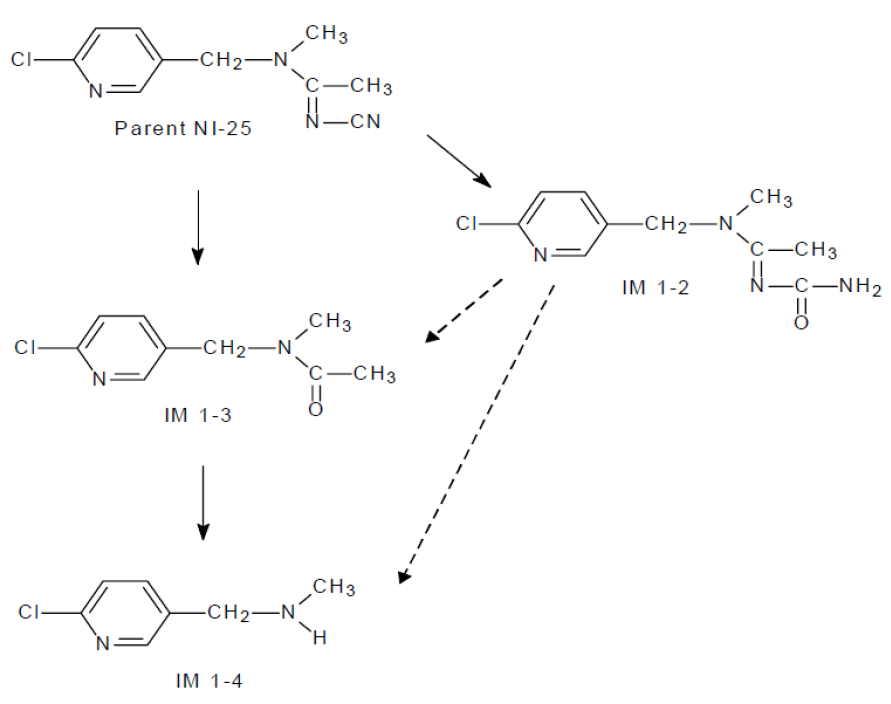


Figure 8.3‑2: Proposed pathway of acetamiprid degradation in soil under anaerobic conditions



### Aerobic degradation in soil (KCP 9.1.1.1)

#### Acetamiprid and its metabolites

Aerobic degradation of acetamiprid and its metabolites in soil was evaluated during the EU review **(EFSA Journal 2016;14(11):4610)**. Additional data was not required.

Triggering endpoints

A summary of the triggering endpoints of laboratory aerobic degradation studies for acetamiprid and its metabolites is given in the tables below.

Table 8.3‑1: Summary of aerobic degradation rates for acetamiprid – laboratory studies: Triggering endpoints

| Acetamiprid, laboratory studies, dark aerobic conditions – Triggering endpoints | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Soil type | pH a) | t  (°C) | MWHC (%) | DT50 (d) | DT90 (d) | Parameters bi-phasic model | Chi2 (%) | Kinetic model | Evaluated on EU level |
| Loamy sand | 7.6 | 20 | 50% of pF2.5 | 1.4 | 4.7 |  | 7.7 | SFO | Yes / EFSA, 2016 |
| Clay loam | 7.4 | 20 | 45 | 5.4 | 54.5 | k1: 0.00806  k2: 0.1628  g: 0.155 | 6.9 | DFOP | Yes / EFSA, 2016 |
| Clay loam | 7.4 | 10 | 45 | 7.9 | 49.3 | k1: 0.1057  k2: 0.0065  g: 0.8686 | 3.7 | DFOP | Yes / EFSA, 2016 |
| Sandy loam | 5.6 | 20 | 45 | 2.5 | 14.3 | α: 1.744  β: 5.212 | 4.6 | FOMC | Yes / EFSA, 2016 |
| Silty clay loam | 7.9-8.5 | 20 | 45 | 0.8 | 2.8 |  | 9.5 | SFO | Yes / EFSA, 2016 |
| Sandy loam | 8.0 | 20 | 45 | 1.1 | 5.2 | α: 2.278  β: 3.000 | 8.4 | FOMC | Yes / EFSA, 2016 |
| Clay | 7.7 | 20 | 45 | 1.1 | 3.8 |  | 9.3 | SFO | Yes / EFSA, 2016 |
| Clay loam | 7.9 | 20 | 45 | 1 | 3.3 |  | 8.4 | SFO | Yes / EFSA, 2016 |
| Max (n=8) | | | | 7.9 | 54.5 |  | | | |

a) Measured in water

Table 8.3‑2: Summary of aerobic degradation rates for IM-1-2 – laboratory studies:   
Triggering endpoints

| IM-1-2, laboratory studies, dark aerobic conditions – Triggering endpoints | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Soil type | pH a) | t  (°C) | MWHC (%) | DT50 (d) | DT90 (d) | Parameters bi-phasic model | Chi2 (%) | Kinetic model | Evaluated on EU level |
| Sandy loam | 8.0 | 20 | 45 | 1.9 | 6.3 | - | 9.6 | SFOb) | Yes / EFSA, 2016 |
| Clay | 7.7 | 20 | 45 | 1.9 | 6.3 | - | 13.0 | SFO | Yes / EFSA, 2016 |
| Clay loam | 7.9 | 20 | 45 | 1.6 | 5.3 | - | 12.3 | SFO | Yes / EFSA, 2016 |
| Max (n=3) | | | | 1.9 | 6.3 |  | | | |

a) Measured in water

b) Parent fitted with FOMC model

Table 8.3‑3: Summary of aerobic degradation rates for IM-1-4 – laboratory studies: Triggering endpoints

| IM-1-4, laboratory studies, dark aerobic conditions – Triggering endpoints | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Soil type | pH a) | t  (°C) | MWHC (%) | DT50 (d) | DT90 (d) | Parameters bi-phasic model | Chi2 (%) | Kinetic model | Evaluated on EU level |
| Loamy sand | 7.6 | 20 | 45 | 46.2 | 154 | - | 22.8 | SFO | Yes / EFSA, 2016 |
| Clay loam | 7.4 | 20 | 45 | 142 | 473 | - | 8.7 | SFOb) | Yes / EFSA, 2016 |
| Clay loam | 7.4 | 10 | 45 | 171 | 569 | - | 5.3 | SFOb) | Yes / EFSA, 2016 |
| Sandy loam | 5.6 | 20 | 45 | 146 | 483 | - | 6.2 | SFOc) | Yes / EFSA, 2016 |
| Silty clay loam | 7.9-8.5 | 20 | 45 | 3.7 | 12.3 | - | 9.1 | SFO | Yes / EFSA, 2016 |
| Sandy loam | 8.0 | 20 | 45 | 4.2 | 14 | - | 22 | SFOc) | Yes / EFSA, 2016 |
| Clay | 7.7 | 20 | 45 | 2.3 | 7.8 | - | 18.1 | SFO | Yes / EFSA, 2016 |
| Clay loam | 7.9 | 20 | 45 | 3 | 10 | - | 14.9 | SFO | Yes / EFSA, 2016 |
| Max (n=7\*) | | | | 146 | 483 |  | | | |

a) Measured in water

b) Parent kinetics DFOP

c) Parent kinetics FOMC

\* Clay loam soil was measured at 20°C and 10°C

Table 8.3‑4: Summary of aerobic degradation rates for IC-0 – laboratory studies: Triggering endpoints

| IC-0, laboratory studies, dark aerobic conditions – Triggering endpoints | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Soil type | pH a) | t  (°C) | MWHC (%) | DT50 (d) | DT90 (d) | Parameters bi-phasic model | Chi2 (%) | Kinetic model | Evaluated on EU level |
| Silty clay loam | 7.9-8.5 | 20 | 45 | 3.6 | 11.8 | - | 32.6 | SFO | Yes / EFSA, 2016 |
| Sandy loam | 8.0 | 20 | 45 | 1.2 | 4.1 | - | 4.3 | SFOb) | Yes / EFSA, 2016 |
| Clay | 7.7 | 20 | 45 | 2.7 | 8.9 | - | 11.6 | SFO | Yes / EFSA, 2016 |
| Clay loam | 7.9 | 20 | 45 | 1.8 | 6.0 | - | 10.0 | SFO | Yes / EFSA, 2016 |
| Sandy loam | 6.7 | 20 | 45 | 3.1 | 10.1 | - | 10 | SFO | Yes / EFSA, 2016 |
| Silty clay loam | 7.8 | 20 | 45 | 2.4 | 8.0 | - | 9.1 | SFO | Yes / EFSA, 2016 |
| Clay loam | 7.2 | 20 | 45 | 5.6 | 18.5 | - | 9.8 | SFO | Yes / EFSA, 2016 |
| Max (n=7) | | | | 5.6 | 18.5 |  | | | |

a) Measured in water

b) Parent kinetics FOMC

Table 8.3‑5: Summary of aerobic degradation rates for IM-1-5 – laboratory studies: Triggering endpoints

| IM-1-5, laboratory studies, dark aerobic conditions – Triggering endpoints | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Soil type | pH a) | t  (°C) | MWHC (%) | DT50 (d) | DT90 (d) | Parameters bi-phasic model | Chi2 (%) | Kinetic model | Evaluated on EU level |
| Silty clay loam | 7.9-8.5 | 20 | 45 | 319 | 1059 |  | 5.1 | SFO | Yes / EFSA, 2016 |
| Sandy loam | 8.0 | 20 | 45 | - | - |  | - | SFO | Yes / EFSA, 2016 |
| Clay | 7.7 | 10 | 45 | - | - |  | - | SFO | Yes / EFSA, 2016 |
| Clay loam | 7.9 | 20 | 45 | 486 | 1614 |  | 10.3 | SFO | Yes / EFSA, 2016 |
| Loam (France) | 7.5 |  | 78.4% pF2 moisture | 663 | 2203 |  | 4.7 | SFO | Yes / EFSA, 2016 |
| Loam  (Hungary) | 7.8 |  | 60.7% pF2 moisture | 420 | 1395 |  | 3.5 | SFO | Yes / EFSA, 2016 |
| Sandy clay loam | 7.6 |  | 66.4% pF2 moisture | 378 | 1254 |  | 2.8 | SFO | Yes / EFSA, 2016 |

a) Measured in water

Modelling endpoints

A summary of the modelling endpoints of laboratory aerobic degradation studies for acetamiprid and its metabolites is given in the tables below.

Table 8.3‑6: Summary of aerobic degradation rates for acetamiprid – laboratory studies: Modelling endpoints

| Acetamiprid, laboratory studies, dark aerobic conditions – Modelling endpoints | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Soil type | pH a) | t  (°C) | MWHC (%) | DT50 (d) | DT90 (d) | DT50 (d) 20°C  pF2/10kPab) | Chi2 (%) | Kinetic model | Evaluated on EU level |
| Loamy sand | 7.6 | 20 | 50 (pF2.5) | 1.4 | 4.7 | 1.2 | 7.7 | SFO | Yes / EFSA, 2016 |
| Clay loam | 7.4 | 20 | 45 | 4.7 | 15.8 | 4.7 | 11.8 | SFO | Yes / EFSA, 2016 |
| Sandy loam | 5.6 | 20 | 45 | 2.5 | 8.3 | 2.5 | 8.8 | SFO | Yes / EFSA, 2016 |
| Silty clay loam | 7.9-8.5 | 20 | 45 | 0.8 | 2.8 | 0.8 | 9.5 | SFO | Yes / EFSA, 2016 |
| Sandy loam | 8.0 | 20 | 45 | 1.1 | 3.7 | 1.1 | 9.9 | SFO | Yes / EFSA, 2016 |
| Clay | 7.7 | 20 | 45 | 1.1 | 3.8 | 1.1 | 9.7 | SFO | Yes / EFSA, 2016 |
| Clay loam | 7.9 | 20 | 45 | 1 | 3.2 | 1 | 8.6 | SFO | Yes / EFSA, 2016 |
| Geometric mean (n=7) | | | | | | 1.45 | | | |
| pH-dependency | | | | | | No | | | |

a) Measured in water

b) Normalised using a Q10 of 2.58 and Walker equation coefficient of 0.7

Table 8.3‑7: Summary of aerobic degradation rates for IM-1-2 - laboratory studies: Modelling endpoints

| IM-1-2, laboratory studies, dark aerobic conditions – Modelling endpoints | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Soil type | pH a) | t  (°C) | MWHC (%) | DT50 (d) | DT90 (d) | Formation fraction kf/kdp c) | DT50 (d) 20°C  pF2/10kPab) | Chi2 (%) | Kinetic model | Evaluated on EU level |
| Sandy loam | 8.0 | 20 | 45 | 1.6 | 5.3 | 0.97 | 1.6 | 12.3 | SFO | Yes / EFSA, 2016 |
| Clay | 7.7 | 20 | 45 | 1.9 | 6.3 | 0.68 | 1.9 | 13.0 | SFO | Yes / EFSA, 2016 |
| Clay loam | 7.9 | 20 | 45 | 1.6 | 5.3 | 0.66 | 1.6 | 12.3 | SFO | Yes / EFSA, 2016 |
| Geometric mean (n=3) | | | | | |  | 1.7 | | | |
| Arithmetic mean (n=3) | | | | | | 0.77 |  | | | |
| pH-dependency | | | | | | No | | | | |

a) Measured in water

b) Normalised using a Q10 of 2.58 and Walker equation coefficient of 0.7

c) Formation from acetamiprid

Table 8.3‑8: Summary of aerobic degradation rates for IM-1-4 – laboratory studies: Modelling endpoints

| IM-1-4, laboratory studies, dark aerobic conditions – Modelling endpoints | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Soil type | pH a) | t  (°C) | MWHC (%) | DT50 (d) | DT90 (d) | Formation fraction kf/kdp c) | DT50 (d) 20°C  pF2/10kPab) | Chi2 (%) | Kinetic model | Evaluated on EU level |
| Loamy sand | 7.6 | 20 | 50% of pF2.5 | 46.2 | 154 | 0.56 | 40.0 | 22.8 | SFO | Yes / EFSA, 2016 |
| Clay loam | 7.4 | 20 | 45 | 169 | 560 | 0.61 | 169 | 10.5 | SFO | Yes / EFSA, 2016 |
| Sandy loam | 5.6 | 20 | 45 | 166 | 552.8 | 0.75 | 166 | 6.7 | SFO | Yes / EFSA, 2016 |
| Silty clay loam | 7.9-8.5 | 20 | 45 | 3.7 | 12.3 | 1 | 3.7 | 9.1 | SFO | Yes / EFSA, 2016 |
| Sandy loam | 8.0 | 20 | 45 | 4.8 | 16.1 | 0.44 | 4.8 | 22.3 | SFO | Yes / EFSA, 2016 |
| Clay | 7.7 | 20 | 45 | 2.3 | 7.8 | 0.97 | 2.3 | 18.1 | SFO | Yes / EFSA, 2016 |
| Clay loam | 7.9 | 20 | 45 | 3 | 10 | 0.71 | 3.0 | 14.9 | SFO | Yes / EFSA, 2016 |
| Geometric mean (n=7) | | | | | |  | 14.6 | | | |
| Arithmetic mean (n=7) | | | | | | 0.72 |  | | | |
| pH-dependency | | | | | | No | | | | |

a) Measured in water

b) Normalised using a Q10 of 2.58 and Walker equation coefficient of 0.7

c) Formation from IM-1-2

Table 8.3‑9: Summary of aerobic degradation rates for IC-0 – laboratory studies: Modelling endpoints

| IC-0, laboratory studies, dark aerobic conditions – Modelling endpoints | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Soil type | pH a) | t  (°C) | MWHC (%) | DT50 (d) | DT90 (d) | Formation fraction kf/kdp c) | DT50 (d) 20°C  pF2/10kPab) | Chi2 (%) | Kinetic model | Evaluated on EU level |
| Silty clay loam | 7.9-8.5 | 20 | 45 | 3.6 | 11.8 | 0.3 | 3.6 | 32.6 | SFO | Yes / EFSA, 2016 |
| Sandy loam | 8.0 | 20 | 45 | 1.4 | 4.6 | 1 | 1.4 | 5.1 | SFO | Yes / EFSA, 2016 |
| Clay | 7.7 | 20 | 45 | 2.7 | 8.9 | 0.39 | 2.7 | 11.6 | SFO | Yes / EFSA, 2016 |
| Clay loam | 7.9 | 20 | 45 | 1.8 | 6.0 | 1 | 1.8 | 11.9 | SFO | Yes / EFSA, 2016 |
| Sandy loam | 6.7 | 20 | 45 | 3.1 | 10.1 | - | 3.1 | 10 | SFO | Yes / EFSA, 2016 |
| Silty clay loam | 7.8 | 20 | 45 | 2.4 | 8.0 | - | 2.4 | 9.1 | SFO | Yes / EFSA, 2016 |
| Clay loam | 7.2 | 20 | 45 | 5.6 | 18.5 | - | 5.6 | 9.8 | SFO | Yes / EFSA, 2016 |
| Geometric mean (n=7) | | | | | |  | 2.7 | | | |
| Arithmetic mean (n=7) | | | | | | 0.67 |  | | | |
| pH-dependency | | | | | | No | | | | |

a) Measured in water

b) Normalised using a Q10 of 2.58 and Walker equation coefficient of 0.7

c) Formation from IM-1-4

Table 8.3‑10: Summary of aerobic degradation rates for IM-1-5 – laboratory studies: Modelling endpoints

| IM-1-5, laboratory studies, dark aerobic conditions – Modelling endpoints | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Soil type | pH a) | t  (°C) | MWHC (%) | DT50 (d) | DT90 (d) | Formation fraction kf/kdp e) | DT50 (d) 20°C  pF2/10kPab) | Chi2 (%) | Kinetic model | Evaluated on EU level |
| Silty clay loam | 7.9-8.5 | 20 | 45 | 319 | 1059 | 0.21 | 319 | 5.1 | SFO | Yes / EFSA, 2016 |
| Sandy loam | 8.0 | 20 | 45 | - | - | 0.16 c) | 1000 d) | - | SFO | Yes / EFSA, 2016 |
| Clay | 7.7 | 20 | 45 | - | - | 0.12 c) | 1000 d) | - | SFO | Yes / EFSA, 2016 |
| Clay loam | 7.9 | 20 | 45 | 486 | 1614 | 0.12 | 486 | 10.3 | SFO | Yes / EFSA, 2016 |
| Loam (France) | 7.5 | 20 | 78.4% of pF2 moisture | 663 | 2203 | - | 559 | 4.7 | SFO | Yes / EFSA, 2016 |
| Loam (Hungary) | 7.8 | 20 | 60.7% of pF2 moisture | 420 | 1395 | - | 296 | 3.5 | SFO | Yes / EFSA, 2016 |
| Sandy clay loam | 7.6 | 20 | 66.4% of pF2 moisture | 378 | 1254 | - | 284 | 2.8 | SFO | Yes / EFSA, 2016 |
| Max (n=7) | | | | | |  | 1000 d) | | | |
| Geometric mean (n=7) | | | | | |  | 495 | | | |
| Arithmetic mean (n=4) | | | | | | 0.15 |  | | | |
| pH-dependency | | | | | | No | | | | |

a) Measured in water

b) Normalised using a Q10 of 2.58 and Walker equation coefficient of 0.7

c) Formation fraction based on maximum fraction of occurrence (persistent metabolite)

d) Default DT50 value used as no decline of IM-1-5 was observed for this soil

e) Formation from acetamiprid

|  |
| --- |
| **zRMS comments:**  Soil degradation data presented in tables above are in line with EU agreed endpoints presented in EFSA Journal 2016;14(11):4610.  Information on DT50 values considered for purposes of estimation of exposure in particular environmental compartments is thus given in the respective points of this document. |

### Anaerobic degradation in soil (KCP 9.1.1.1)

Anaerobic degradation of acetamiprid was evaluated during the EU review (EFSA, 2016). In anaerobic degradation studies, only the metabolite IM-1-4 was identified with a maximum occurrence of 46.7% AR. Additional data was not required.

A summary of the degradation rates of acetamiprid under anaerobic conditions is given in the table below.

Table 8.3‑11: Summary of anaerobic degradation rates for acetamiprid – laboratory studies

| Acetamiprid, Laboratory studies, dark anaerobic conditions | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Soil type | pH a) | t  (°C) | MWHC (%) | DT50 (d) | DT90 (d) | DT50 (d) 20°C | Chi2 (%) | Kinetic model | Evaluated on EU level |
| Loam | 7.4 | 20 | 100 | 69.0 | 410.6 | n.a. | 4.7 | FOMC  α: 1.591  β: 126.319 | Yes / EFSA, 2016 |

a) Measured in water

|  |
| --- |
| **zRMS comments:**  Information on anaerobic soil degradation of acetamiprid is in line with EU agreed data reported in EFSA Journal 2016;14(11):4610. |

## Field studies (KCP 9.1.1.2)

### Soil dissipation testing on a range of representative soils (KCP 9.1.1.2.1)

Studies on field dissipation rates, which are commonly performed with a formulation, are considered to be data provided in support of the active substance.

#### Acetamiprid and its metabolites

Soil dissipation studies of acetamiprid and its metabolites were evaluated during the EU review **(EFSA Journal 2016;14(11):4610)**. No additional studies have been performed.

The degradation rates of acetamiprid and the maximum occurrence of its metabolites in field dissipation studies are summarised in the tables below.

Table 8.4‑1: Summary of aerobic degradation rates for acetamiprid – field studies

| Acetamiprid, Field studies, aerobic conditions | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Soil type | Location | pH | Depth (cm) | DT50 (d)  actual | DT90 (d) actual | Kinetic  parameters | Chi2 (2) | Method of calculation | Evaluated on EU level |
| Clay loam | Italy | 8.9 a) | 0-30 | 0.4 | 19.8 | k1: 4.122808  k2: 0.071185  g: 0.589717 | 14.1 | DFOP | Yes / EFSA, 2016 |
| Sandy loam | United Kingdom | 5.9 a) | 0-30 | 3.7 | 22.7 | α: 1.544681  β: 6.600352 | 19.5 | FOMC | Yes / EFSA, 2016 |
| Silty clay loam | France | 8.7 a) | 0-30 | 9.6 | 31.3 |  | 16.4 | SFO | Yes / EFSA, 2016 |
| Sandy loam | Spain | 7 a) | 0-30 | 0.7 | 11.2 | α: 0.67159  β: 0.374289 | 11.4 | FOMC | Yes / EFSA, 2016 |
| Loam | Spain | 7.45 b) | 0-50 | 12.96 | 43.06 |  | 28.1 | SFO | Yes / EFSA, 2016 |
| Loam | Southern France | 7.36 b) | 0-50 | 2.26 | 7.52 |  | 13.0 | SFO | Yes / EFSA, 2016 |
| Loam | Northern France | 7.49 b) | 0-50 | 2.24 | 7.43 |  | 12.1 | SFO | Yes / EFSA, 2016 |
| Loam | Hungary | 8.06 b) | 0-50 | 2.14 | 15.32 | α and β: values not reported | 25.9 | FOMC | Yes / EFSA, 2016 |
| Max (n=8) | | | | 12.96 | 43.06 |  | | | |
| pH-dependency: No | | | | | | | | | |

a) Measured in 1 M KCl

b) Measured in 0.01 M CaCl2

Table 8.4‑2: Summary of the maximum occurrence for relevant metabolites – field studies

| Metabolite max. formation proportion of max. measured parent, Field studies, aerobic conditions | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Soil type | Location | pH | Depth (cm) | IM-1-4 | IM-1-2 | IM-1-5 | Evaluated on EU level |
| Clay loam | Italy | 8.9 a) | 0-10  ~~0-30~~ | 50% after 28 days | 39% after 4 days | Not analysed | Yes / EFSA, 2016 |
| Sandy loam | United Kingdom | 5.9 a) | 0-10  ~~0-30~~ | 50% after 30 days | < 3.9% after 2‑7 days | Not analysed | Yes / EFSA, 2016 |
| Silty clay loam | France | 8.7 a) | 0-10  ~~0-30~~ | 73% after 28 days | 18% after 2 days | Not analysed | Yes / EFSA, 2016 |
| Sandy loam | Spain | 7 a) | 0-10  ~~0-30~~ | 55% after 31 days | 9% after 2 days | Not analysed | Yes / EFSA, 2016 |
| Loam | Spain | 7.45 b) | 0-10  ~~0-30~~ | Not analysed | Not analysed | 60% after 28 days | Yes / EFSA, 2016 |
| Loam | Southern France | 7.36 b) | 0-10  ~~0-30~~ | Not analysed | Not analysed | 25% after 29 days | Yes / EFSA, 2016 |
| Loam | Northern France | 7.49 b) | 0-10  ~~0-30~~ | Not analysed | Not analysed | 45% after 7 days | Yes / EFSA, 2016 |
| Loam | Hungary | 8.06 b) | 0-10  ~~0-30~~ | Not analysed | Not analysed | 24% after 169 days | Yes / EFSA, 2016 |

a) Measured in 1 M KCl

b) Measured in 0.01 M CaCl2

|  |
| --- |
| **zRMS comments:**  Soil field degradation data for acetamiprid and its metabolites are in general in line with EU agreed values reported in EFSA Journal 2016;14(11):4610 with some minor corrections regarding the soil depth given in Table 8.4-2, which in line with the LoEP should be 0-10 cm.  For relevant endpoints considered in exposure assessment, please refer to points 8.7 (soil), 8.8 (groundwater) and 8.9 (surface water) of this document. |

### Soil accumulation testing (KCP 9.1.1.2.2)

No soil accumulation studies were performed. Plateau concentrations of persistent metabolites are obtained by modelling (see B.8.7.2).

|  |
| --- |
| **zRMS comments:**  No EU agreed data from soil accumulation studies with acetamiprid are available in EFSA Journal 2016;14(11):4610. Potential for soil accumulation is thus addressed in calculation of soil exposure in point 8.7 of this report. |

## Mobility in soil (KCP 9.1.2)

Studies on mobility in soil with the formulation were not performed since it is possible to extrapolate from data obtained with the active substance.

### Acetamiprid and its metabolites

The mobility of acetamiprid and its metabolites in soil was evaluated during the EU review **(EFSA Journal 2016;14(11):4610)**. Additional data was not required.

Summaries of all adsorption/desorption data for acetamiprid and its metabolites are given in the tables below.

Table 8.5‑1: Summary of soil adsorption/desorption data for acetamiprid

| Acetamiprid | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Soil type | OC  (%) | pH a) | KF  (mL/g) | KFoc  (mL/g) | 1/n  (-) | Evaluated on EU level |
| I Sand | 0.43 | 5.7 | 0.60 | 138.39 | 0.842 | Yes / EFSA, 2016 |
| II Loamy sand | 1.04 | 7.6 | 1.35 | 129.98 | 0.825 | Yes / EFSA, 2016 |
| III Sandy loam | 1.57 | 7.1 | 1.12 | 71.09 | 0.893 | Yes / EFSA, 2016 |
| IV Silt loam | 1.39 | 7.7 | 1.69 | 121.81 | 0.835 | Yes / EFSA, 2016 |
| V Silt loam | 4.39 | 7.1 | 3.13 | 71.38 | 0.907 | Yes / EFSA, 2016 |
| Arithmetic mean (n=5) | | | | 106.5 | 0.860 |  |
| Geometric mean (n=5) | | | | 102.1 | - |  |
| pH-dependency | | | | No | | |

a) Measured in unknown medium

Table 8.5‑2: Summary of soil adsorption/desorption data for IM-1-2

| IM-1-2 | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Soil type | OC  (%) | pH a) | KF  (mL/g) | KFoc  (mL/g) | 1/n  (-) | Evaluated on EU level |
| Clay loam 02/06 | 2.3 | 7.6 | 0.45 | 19 | 0.886 | Yes / EFSA, 2016 |
| Sandy loam 02/16 | 1.3 | 7.5 | 0.27 | 21 | 0.856 | Yes / EFSA, 2016 |
| Clay loam 01/24 | 3.8 | 6.1 | 3.60 | 95 | 0.927 | Yes / EFSA, 2016 |
| Sandy loam 02/18 | 0.2 | 7.4 | 0.16 | 80 | 0.944 | Yes / EFSA, 2016 |
| Arithmetic mean (n=4) | | | | 54 | 0.903 |  |
| Geometric mean (n=4) | | | | 42 | - |  |
| pH-dependency | | | | No | | |

a) Measured in CaCl2 medium

Table 8.5‑3: Summary of soil adsorption/desorption data for IM-1-4

| IM-1-4 | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Soil type | OC  (%) | pH a) | KF  (mL/g) | KFoc  (mL/g) | 1/n  (-) | Evaluated on EU level |
| I Sand \* | 0.43 | 5.7 | 2.1 | 488 | 0.597 | Yes / EFSA, 2016 |
| II Loamy sand | 1 | 7.6 | 2.24 | 223 | 0.714 | Yes / EFSA, 2016 |
| III Sandy loam | 1.57 | 7.1 | 2.16 | 138 | 0.712 | Yes / EFSA, 2016 |
| IV Silt loam | 1.39 | 7.7 | 2.67 | 192 | 0.816 | Yes / EFSA, 2016 |
| V Silt loam | 4.39 | 7.1 | 5.79 | 132 | 0.813 | Yes / EFSA, 2016 |
| Arithmetic mean (n=5) | | | | 171 | 0.746 |  |
| Geometric mean (n=5) | | | | 167 | - |  |
| pH-dependency | | | | No | | |

a) Measured in unknown medium

\*Sand soil was already excluded during the previous evaluation due to low 1/n value

Table 8.5‑4: Summary of soil adsorption/desorption data for IC-0

| IC-0 | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Soil type | OC  (%) | pH a) | KF  (mL/g) | KFoc  (mL/g) | 1/n  (-) | Evaluated on EU level |
| I Sand | 0.43 | 5.7 | 0.643 | 258 | 0.967 | Yes / EFSA, 2016 |
| II Loamy sand | 2.54 | 7.6 | 1.027 | 70 | 1.007 | Yes / EFSA, 2016 |
| III Sandy loam | 0.76 | 7.1 | 0.569 | 129 | 0.971 | Yes / EFSA, 2016 |
| IV Silt loam | 2.05 | 7.7 | 0.833 | 70 | 0.894 | Yes / EFSA, 2016 |
| V Silt loam | 1.41 | 7.1 | 0.69 | 84 | 0.926 | Yes / EFSA, 2016 |
| Pond sediment \* | 4.32 |  | 2.121 | 85 | 0.867 | Yes / EFSA, 2016 |
| Arithmetic mean (n=5) | | | | 122 | 0.953 |  |
| Geometric mean (n=5) | | | | 106 | - |  |
| pH-dependency | | | | No | | |

a) Measured in unknown medium

\*Sediment already excluded during the previous evaluation

Table 8.5‑5: Summary of soil adsorption/desorption data for IM-1-5

| IM-1-5 | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Soil type | OC  (%) | pH a) | KF  (mL/g) | KFoc  (mL/g) | 1/n  (-) | Evaluated on EU level |
| Spain (Canals) | 3.3 | 7.6 | 5.70 | 173 | 0.8788 | Yes / EFSA, 2016 |
| S France (Meauzac) | 1.14 | 7.6 | 4.89 | 429 | 0.9030 | Yes / EFSA, 2016 |
| Hungary | 2.03 | 7.8 | 7.58 | 374 | 0.8454 | Yes / EFSA, 2016 |
| N France (Meistratzheim) | 2.04 | 8.3 | 6.60 | 324 | 0.9176 | Yes / EFSA, 2016 |
| Arithmetic mean (n=4) | | | | 325 | 0.886 |  |
| Geometric mean (n=4) | | | | 308 | - |  |
| pH-dependency | | | | No | | |

a) Measured in unknown medium

\*Sediment already excluded during the previous evaluation

|  |
| --- |
| **zRMS comments:**  Soil mobility data for acetamiprid and its metabolites are in line with EU agreed endpoints as reported in EFSA Journal 2016;14(11):4610.  It is noted that for acetamiprid and its metabolites the geometric mean Kfoc values were calculated by the Applicant, although in the EFSA conclusion only arithmetic mean values are reported and further used for groundwater and surface water modelling. The geometric mean values calculated by the Applicant were based on the individual Kfoc from the LoEP and are confirmed to be correct. For relevant endpoints considered in exposure assessment, please refer to points 8.8 (groundwater) and 8.9 (surface water) of this document. |

### Column leaching (KCP 9.1.2.1)

Column leaching studies are not required as reliable adsorption coefficients are available for the active substance acetamiprid and its metabolites. However, two studies were submitted for the last EU renewal; the outcome of these studies as given by EFSA Journal 2016;14(11):4610 is provided in the following table.

Table 8.5‑6: Results of column leaching studies

|  |  |
| --- | --- |
| Study 1 | Leachate: 0.3-1.3% total residues/radioactivity in leachate  0.06% active substance, 0.84% IM-1-4  88.9-93.7% total residues/radioactivity retained in the four upper soil layers |
| Study 2 | Elution (mm): 1038 mm  Time period (d): 20 d  Leachate: 4.14-22.22% total residues/radioactivity in leachate, all associated with metabolite IC-0  4.5-5.3% total residues/radioactivity retained in top 6 cm |

|  |
| --- |
| **zRMS comments:**  Information regarding column leaching studies with acetamiprid has been taken from EFSA Journal 2016;14(11):4610 and is confirmed to be correct. |

### Lysimeter studies (KCP 9.1.2.2)

No lysimeter studies with acetamiprid and its metabolites were performed as they are not required.

|  |
| --- |
| **zRMS comments:**  The lysimeter studies were not required during the EU review. The leaching potential of acetamiprid and its metabolites following application of ADM.00150.I.2.A is addressed in groundwater modelling presented in point 8.8 of this document. |

### Field leaching studies (KCP 9.1.2.3)

No field leaching studies with acetamiprid and its metabolites were performed as they are not required.

|  |
| --- |
| **zRMS comments:**  The field leaching studies were not required during the EU review. The leaching potential of acetamiprid and its metabolites following application of ADM.00150.I.2.A is addressed in groundwater modelling presented in point 8.8 of this document. |

## Degradation in the water/sediment systems (KCP 9.2, KCP 9.2.1, KCP 9.2.2, KCP 9.2.3)

Studies on degradation in water/sediment systems with the formulation were not performed since it is possible to extrapolate from data obtained with the active substance.

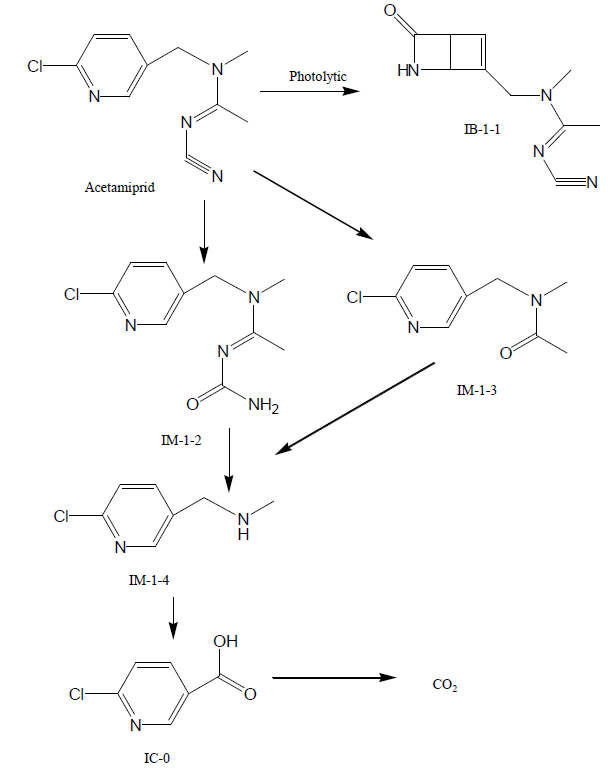
### Acetamiprid and its metabolites

Studies on the degradation of acetamiprid in water/sediment systems have been evaluated during the EU review **(EFSA Journal 2016;14(11):4610)**. Fate and behaviour of acetamiprid in the aquatic environment was investigated in two aerobic water/sediment systems. Thereby, three major metabolites (> 10% applied radioactivity (AR)) were identified in the water phase: IM-1-2 (max. 10.96% AR), IM-1-4 (max. 12.33% AR) and IC-0 (max. 26.15% AR). Metabolite IM-1-4 was also a major metabolite in the sediment phase (max. 30.71% AR).

One study investigating aerobic mineralisation in surface water was conducted and also evaluated during the EU review **(EFSA Journal 2016;14(11):4610)**. Thereby, the major metabolite IM-1-4 was identified with a maximum occurrence of 81.5% AR. Further, the metabolite IB-1-1 was identified in aqueous photochemical degradation studies also evaluated during the EU review **(EFSA Journal 2016;14(11):4610)**. Its maximum occurrence was 35% AR after 30 days.

The proposed degradation pathway of acetamiprid in water is illustrated in Figure 8.6‑1.

Figure 8.6‑1: Proposed pathway of acetamiprid degradation in water



A summary of all data on the degradation rates of acetamiprid in water/sediment and aerobic mineralisation studies, as well as a summary of the maximum occurrence of relevant metabolites is given in the following tables.

Table 8.6‑1: Summary of degradation in water/sediment of acetamiprid

| Acetamiprid distribution (max. water 101.42% after 0 days, max. sediment 39.05% after 14 days) | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Water/sediment system | pH water phase | pH sediment | t  (°C) | DT50 whole system (d) | Chi2 (2) | DT50 water (d) | Chi2 (2) | DT50 sed. (d) | Chi2 (2) | Method of calculation | Evaluated on EU level |
| Manningtree | 6.37/5.9 | n.r. | 20 | 23.1 | 7.6 | 4.9 | 8.3 | n.c. |  | SFO/DFOP | Yes / EFSA, 2016 |
| Ongar | 7.58/7.3 | n.r. | 20 | 31.6 | 6.7 | 6.1 | 5.9 | n.c. |  | SFO/DFOP | Yes / EFSA, 2016 |
| Geometric mean at 20°Ca) (n=2) | | | | 27 |  | | | | | | |

a) Normalised using a Q10 of 2.58

Table 8.6‑2: Summary of aerobic mineralisation of acetamiprid in surface water

| Acetamiprid, aerobic mineralisation in surface water | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| System identifier | pH water phase | pH sediment | t  (°C) | Chi2 (2) | DT50 /DT90 water (d) (pelagic test) | | Chi2 (2) | Method of calculation | Evaluated on EU level |
| At study temp. | DT50 at 12°C a) |
| Kolben-woog low dose system (2 µg/L) | 5.41 |  | 20 |  | 2.4/36.9 | 5.1 | 4.2 | DFOP | Yes / EFSA, 2016 |
| Kolben-woog high dose system (10 µg/L) | 5.41 |  | 20 |  | 6.8/87.8 | 14.5 | 7.1 | FOMC | Yes / EFSA, 2016 |

a) Normalised using a Q10 of 2.58 to the temperature of the environmental media at the point of sampling

Table 8.6‑3: Summary of observed metabolites

|  |  |  |
| --- | --- | --- |
| IM-1-2  Water/sediment system | Max. in total system 13.4% after 7 days (max. in water 10.96% after 7 days; max. in sediment 3.93% after 14 days).  No acceptable fit possible | Yes / EFSA, 2016 |
| IM-1-4  Water/sediment system | Max. in total system 43% after 30 days (max in water 12.33% after 30 days; max. in sediment 30.71% after 30 days).  Max. 81.5% in aerobic mineralisation study.  No acceptable fit possible | Yes / EFSA, 2016 |
| IC-0  Water/sediment system | Max. in total system 29.5% after 62 days (max. in water 26.15% after 62 days; max. in sediment 5.61% after 100 days).  No acceptable fit possible | Yes / EFSA, 2016 |

|  |
| --- |
| **zRMS comments:**  Degradation data for acetamiprid and is metabolites in water/sediment systems provided in tables above are in line with EU agreed endpoints reported in EFSA Journal 2016;14(11):4610 and are relevant for the surface water exposure assessment. |

## Environmental Concentrations in soil (PECsoil) (KCP 9.1.3)

### Justification for new endpoints

For the assessment of the PEC in soil (PECsoil) of acetamiprid and its relevant metabolites, no new endpoints were defined. PECsoil have been calculated using the maximum field dissipation DT50 value of 12.96 days for acetamiprid and maximum laboratory DT50 values for the metabolites, as suggested in the EFSA conclusion on acetamiprid **(EFSA Journal 2016;14(11):4610)**.

### Active substance and relevant metabolites

Please note: Since the original submission, the GAP was changed due to issues with groundwater (see chapter 8.8), i.e. the application rate or number of applications was lowered, or the initial BBCH increased in some cases. In the context of a risk envelope, the original, conservative application patterns were kept for the PECsoil calculations.

Table 8.7‑1: Input parameters related to application for PECsoil calculations

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Use No. | 1-3 | 4, 6, 9, 11, 13, 15 | 5, 7, 8, 10, 12, 14, 16 | 17-22 | 23, 25, 27, 29, 30 | 24, 28, 31 | 26, ~~28, 31~~ | 32, 34, 36, 39 | 33, 35, 37, 38, 40 | 41-43, 46-51, 53-58, 62-64, 66-79 |
| Umbrella use No. as used in the ETX # risk assessment | I | IIa | IIb | III | IVa | IVb | IVb | Va | Vb | VIa, VIIa |
| Crop in GAP | Corn | Apple | Apple | Potato | Spring wheat, spring barley, spring oats, spring durum wheat, spring triticale | Spring wheat, spring barley, spring oats, spring durum wheat, spring triticale | Spring wheat, spring barley, spring oats, spring triticale | Winter wheat, winter barley, winter rye, winter triticale, winter oat, spelt | Winter wheat, winter barley, winter rye, winter triticale, winter oat, spelt | Winter oilseed rape and spring oilseed rape |
| FOCUS crop (used for crop interception) | Maize | Pome fruit | Pome fruit | Potato | Spring cereals | Spring cereals | Spring cereals | Winter cereals | Winter cereals | Oilseed rape |
| BBCH | 51-75 | 71-PHI\* | 62-PHI\* | 12-79 | 40-69 | 20-29  ~~12-69~~ | 12-29  40-69  ~~12-69~~ | 40-69 (spring) | 12-29 (autumn) | 31-71 |
| Application rate (g a.s./ha) | 60 | 80\*\*\*a) | 25 | 36 | 35 | 35 | 35 | 36 | 30\*\*\*b) | 60 |
| Number of applications / interval (d) | 1 / 0 | 1 / 0 | 2 / 8 | 1 / 0 | 2 / 10 | 1 / 0  ~~2 / 30~~ | 2 / 30 | 2 / 10 | 1 / 0 | 2 / 7 |
| Crop interception (%) | 75 | 65 | 60 | 15 | 90 | 20  ~~1~~~~st~~ ~~appl.:  0 2~~~~nd~~ ~~appl.: 90 \*\*~~ | 1st appl.:  0 2nd appl.: 90 \*\* | 90 | 0 | 80 |
| Soil load rate (g a.s./ha) | 15 | 28 | 10 | 30.6 | 3.5 | 28  ~~1~~~~st~~ ~~appl.:  35 2~~~~nd~~ ~~appl.: 3.5~~ | 1st appl.:  35 2nd appl.: 3.5 | 3.6 | 30 | 12 |
| Frequency of application | annual | annual | annual | annual | annual | annual  ~~biennia~~l | annual | annual | annual | annual |
| Depth of soil layer (relevant for plateau concentration) | 5/20 cm (tillage) | 5/5 cm (without tillage) | 5/5 cm (without tillage) | 5/20 cm (tillage) | 5/20 cm (tillage) | 5/20 cm (tillage) | 5/20 cm (tillage) | 5/20 cm (tillage) | 5/20 cm (tillage) | 5/20 cm (tillage) |
| **Agricultural use pattern of acetamiprid continued** | | | | | | | | | | |
| Use No. | 44, 45, 52, 59, 60, 61, 65 | 80-84 | 85 | 86 | 87 | 88 | 89 | 90 | 88 | 89, 90 |
| Umbrella use No. as used in the ETX # risk assessment | VIb | VIIIa | IXa | IXb | IXb | Xa | Xb | IXb | Xa | Xb |
| Crop | Winter oilseed rape | Sugar beet | Flower bulbs and flower tubers | Flower bulbs and flower tubers | Flower bulbs and flower tubers | Floricul­ture crops, perennial nursery crops | Floricul­ture crops, perennial nursery crops | Floricul­ture crops, perennial nursery crops | Tree nursery crops | Tree nursery crops |
| FOCUS crop (used for crop interception) | Oilseed rape | Sugar beet | Onions | Onions | Onions | Cabbage | Cabbage | Cabbage | Pome fruit | Pome fruit |
| BBCH | 11-19 | 12-39 | 12-91 | 20-91 | 12-91 | 12-91 | 12-91 | 12-91 | 12-91 | 12-91 |
| Application rate (g a.s./ha) | 60 \*\*\*c) | 50 | 46 | 34 | 34 | 46 | 34 | 34 | 46 | 34 |
| Number of applications / interval (d) | 1 / 0 | 1 / 0  2 / 7 | 1 / 0 | 2 / 7 | 2 / 7 | 1 / 0 | 2 / 7 | 2 / 7 | 1 / 0 | 2 / 7 |
| Crop interception (%) | 40 | 20 | 10 | 25 | 10 | 25 | 25 | 25 | 60 | 60 |
| Soil load rate (g a.s./ha) | 36 | 40 | 41.4 | 25.5 | 30.6 | 34.5 | 25.5 | 25.5 | 18.4 | 13.6 |
| Frequency of application | annual  ~~biennial~~ | biennial  triennial | annual | annual | annual  ~~biennial~~ | annual | annual | annual  ~~biennial~~ | annual | annual |
| Depth of soil layer (relevant for plateau concentration) | 5/20 cm (tillage) | 5/20 cm (tillage) | 5/20 cm (tillage) | 5/20 cm (tillage) | 5/20 cm (tillage) | 5/20 cm (tillage) | 5/20 cm (tillage) | 5/20 cm (tillage) | 5/5 cm (without tillage) | 5/5 cm (without tillage) |

# ETX = Ecotoxicology

\* PHI = Pre-Havest Interval

\*\* 1 application at BBCH 12-29 followed by 1 application at BBCH 40-69

\*\*\* Also covering lower application rates based on a risk envelope

1. 60 g a.s./ha according to GAP table for uses No. 4, 6, 9, 11, 13, 15
2. 29 g a.s./ha according to GAP table for use No.40
3. 48 g a.s./ha according to GAP table for uses No. 44, 52, 59, 61, 65 and 40 g a.s./ha for uses No. 45 and 60

Table 8.7‑2: Input parameter for active substance and relevant metabolites for PECsoil calculation

| Compound | Molecular weight (g/mol) | Max.  occurrence (%) | DT50  (days) | Value in accordance to EU endpoint /Reference |
| --- | --- | --- | --- | --- |
| Acetamiprid | 223 | - | 12.96  (SFO, non-normalised worst-case field DT50) | Yes / EFSA, 2016 |
| IM-1-2 | 240.69 | 55 | 1.9  (SFO, non-normalised/normalised worst-case lab DT50) | Yes / EFSA, 2016 |
| IM-1-4 | 156.61 | 72 | 146  (SFO, non-normalised worst-case lab DT50) | Yes / EFSA, 2016 |
| IC-0 | 157.55 | 11.3 | 5.6  (SFO, non-normalised/normalised worst-case lab DT50) | Yes / EFSA, 2016 |
| IM-1-5 | 197.66 | 20 | 1000  (SFO, default DT50) | Yes / EFSA, 2016 |

|  |
| --- |
| **zRMS comments:**  For evaluation of the application pattern and input parameters please refer to zRMS comments in point 8.7.2.1  below. |

#### Acetamiprid and its metabolites

PECsoil of acetamiprid

Table 8.7‑3: PECsoil for acetamiprid on Maize, 1x60 g a.s./ha, BBCH 51, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Maize** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.020 | - |
| Short term | 24h | 0.019 | 0.019 |
| 2d | 0.018 | 0.019 |
| 4d | 0.016 | 0.018 |
| Long term | 7d | 0.014 | 0.017 |
| 14d | 0.009 | 0.014 |
| 21d | 0.007 | 0.012 |
| 28d | 0.004 | 0.010 |
| 50d | 0.001 | 0.007 |
| 100d | < 0.001 | 0.004 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 60 days and DT90 < 200 days

Table 8.7‑4: PECsoil for Acetamiprid on Pome fruit, 1x80 g a.s./ha, BBCH 71, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Pome fruit** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.037 | - |
| Short term | 24h | 0.035 | 0.036 |
| 2d | 0.034 | 0.035 |
| 4d | 0.030 | 0.034 |
| Long term | 7d | 0.026 | 0.031 |
| 14d | 0.018 | 0.026 |
| 21d | 0.012 | 0.022 |
| 28d | 0.008 | 0.019 |
| 50d | 0.003 | 0.013 |
| 100d | < 0.001 | 0.007 |
| Plateau concentration (5 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑5: PECsoil for acetamiprid on Pome fruit, 2x25 g a.s./ha, BBCH 62, annual

|  |  |  |  |
| --- | --- | --- | --- |
| PECsoil  (mg/kg) | | Pome fruit | |
| Multiple applications | |
| Actual | TWA |
| Initial | | 0.022 | - |
| Short term | 24h | 0.021 | 0.021 |
| 2d | 0.020 | 0.021 |
| 4d | 0.018 | 0.020 |
| Long term | 7d | 0.015 | 0.018 |
| 14d | 0.010 | 0.016 |
| 21d | 0.007 | 0.014 |
| 28d | 0.005 | 0.013 |
| 50d | 0.002 | 0.009 |
| 100d | < 0.001 | 0.005 |
| Plateau concentration (5 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑6: PECsoil for acetamiprid on Potato, 1x36 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Potato** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.041 | - |
| Short term | 24h | 0.039 | 0.040 |
| 2d | 0.037 | 0.039 |
| 4d | 0.033 | 0.037 |
| Long term | 7d | 0.028 | 0.034 |
| 14d | 0.019 | 0.029 |
| 21d | 0.013 | 0.025 |
| 28d | 0.009 | 0.021 |
| 50d | 0.003 | 0.014 |
| 100d | < 0.001 | 0.008 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑7: PECsoil for acetamiprid on Spring cereals, 2x35 g a.s./ha, BBCH 40, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Spring cereals** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.007 | - |
| Short term | 24h | 0.007 | 0.007 |
| 2d | 0.007 | 0.007 |
| 4d | 0.006 | 0.007 |
| Long term | 7d | 0.005 | 0.006 |
| 14d | 0.003 | 0.005 |
| 21d | 0.002 | 0.005 |
| 28d | 0.002 | 0.004 |
| 50d | 0.001 | 0.003 |
| 100d | < 0.001 | 0.002 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑8: PECsoil for acetamiprid on Spring cereals, 2x35 g a.s./ha, 1st appl.: BBCH 12, 2nd appl.: BBCH 40, annual ~~and biennial~~

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Spring cereals** | | | |
| **Single/Multiple applications**  **~~Multiple applications~~** | | | |
| **Actual** | | **TWA** | |
| Initial | | 0.047 | / 0.014 | - |  |
| Short term | 24h | 0.044 | / 0.013 | 0.045 | / 0.014 |
| 2d | 0.042 | / 0.013 | 0.044 | / 0.013 |
| 4d | 0.038 | / 0.011 | 0.042 | / 0.013 |
| Long term | 7d | 0.032 | / 0.010 | 0.039 | / 0.012 |
| 14d | 0.022 | / 0.007 | 0.033 | / 0.010 |
| 21d | 0.015 | / 0.005 | 0.028 | / 0.008 |
| 28d | 0.010 | / 0.003 | 0.024 | / 0.007 |
| 50d | 0.003 | / 0.001 | 0.018 | / 0.005 |
| 100d | < 0.001 | / <0.001 | 0.010 | / 0.003 |
| Plateau concentration (20 cm) after year 26 | | -a) |  | - |  |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) |  | - |  |

a) Not calculated due to DT50 < 90 days

Table 8.7‑9: PECsoil for acetamiprid on Winter cereals, 2x36 g a.s./ha, BBCH 40, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Winter cereals** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.008 | - |
| Short term | 24h | 0.007 | 0.007 |
| 2d | 0.007 | 0.007 |
| 4d | 0.006 | 0.007 |
| Long term | 7d | 0.005 | 0.006 |
| 14d | 0.004 | 0.005 |
| 21d | 0.002 | 0.005 |
| 28d | 0.002 | 0.005 |
| 50d | 0.001 | 0.003 |
| 100d | < 0.001 | 0.002 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

1. Not calculated due to DT50 < 90 days

Table 8.7‑10: PECsoil for acetamiprid on Winter cereals, 1x30 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Winter cereals** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.040 | - |
| Short term | 24h | 0.038 | 0.039 |
| 2d | 0.036 | 0.038 |
| 4d | 0.032 | 0.036 |
| Long term | 7d | 0.028 | 0.033 |
| 14d | 0.019 | 0.028 |
| 21d | 0.013 | 0.024 |
| 28d | 0.009 | 0.021 |
| 50d | 0.003 | 0.014 |
| 100d | < 0.001 | 0.007 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑11: PECsoil for acetamiprid on Oilseed rape, 2x60 g a.s./ha, BBCH 31, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Oilseed rape** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.027 | - |
| Short term | 24h | 0.026 | 0.026 |
| 2d | 0.024 | 0.026 |
| 4d | 0.022 | 0.024 |
| Long term | 7d | 0.019 | 0.023 |
| 14d | 0.013 | 0.019 |
| 21d | 0.009 | 0.017 |
| 28d | 0.006 | 0.016 |
| 50d | 0.002 | 0.011 |
| 100d | < 0.001 | 0.006 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑12: PECsoil for acetamiprid on Oilseed rape, 1x60 g a.s./ha, BBCH 11, annual ~~biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Oilseed rape** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.048 | - |
| Short term | 24h | 0.046 | 0.047 |
| 2d | 0.043 | 0.046 |
| 4d | 0.039 | 0.043 |
| Long term | 7d | 0.033 | 0.040 |
| 14d | 0.023 | 0.034 |
| 21d | 0.016 | 0.029 |
| 28d | 0.011 | 0.025 |
| 50d | 0.003 | 0.017 |
| 100d | < 0.001 | 0.009 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

1. Not calculated due to DT50 < 90 days

Table 8.7‑13: PECsoil for acetamiprid on Sugar beet, 2x50 g a.s./ha, BBCH 12, biennial and triennial (note that annual application has been assumed in calculations as representing worst case and covering the intended use pattern)

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Sugar beet** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.090 | - |
| Short term | 24h | 0.085 | 0.088 |
| 2d | 0.081 | 0.085 |
| 4d | 0.073 | 0.081 |
| Long term | 7d | 0.062 | 0.075 |
| 14d | 0.043 | 0.064 |
| 21d | 0.029 | 0.058 |
| 28d | 0.020 | 0.052 |
| 50d | 0.006 | 0.037 |
| 100d | < 0.001 | 0.020 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑14: PECsoil for acetamiprid on Onions (flower bulbs and flower tubers), 1x46 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Onions (Flower bulbs and flower tubers)** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.055 | - |
| Short term | 24h | 0.052 | 0.054 |
| 2d | 0.050 | 0.052 |
| 4d | 0.045 | 0.050 |
| Long term | 7d | 0.038 | 0.046 |
| 14d | 0.026 | 0.039 |
| 21d | 0.018 | 0.033 |
| 28d | 0.012 | 0.029 |
| 50d | 0.004 | 0.019 |
| 100d | < 0.001 | 0.010 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑15: PECsoil for acetamiprid on Onions (flower bulbs and flower tubers), 2x34 g a.s./ha, BBCH 20, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Onions (Flower bulbs and flower tubers)** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.057 | - |
| Short term | 24h | 0.054 | 0.056 |
| 2d | 0.052 | 0.054 |
| 4d | 0.046 | 0.052 |
| Long term | 7d | 0.039 | 0.048 |
| 14d | 0.027 | 0.041 |
| 21d | 0.019 | 0.037 |
| 28d | 0.013 | 0.033 |
| 50d | 0.004 | 0.024 |
| 100d | < 0.001 | 0.013 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑16: PECsoil for acetamiprid on Onions (flower bulbs and flower tubers), 2x34 g a.s./ha, BBCH 12, annual ~~biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Onions (Flower bulbs and flower tubers)** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.069 | - |
| Short term | 24h | 0.065 | 0.067 |
| 2d | 0.062 | 0.065 |
| 4d | 0.056 | 0.062 |
| Long term | 7d | 0.047 | 0.058 |
| 14d | 0.033 | 0.049 |
| 21d | 0.022 | 0.044 |
| 28d | 0.015 | 0.040 |
| 50d | 0.005 | 0.028 |
| 100d | < 0.001 | 0.015 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑17: PECsoil for acetamiprid on Cabbage (floriculture crops, perennial nursery crops), 1x46 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Cabbage  (Floriculture crops, perennial nursery crops)** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.046 | - |
| Short term | 24h | 0.044 | 0.045 |
| 2d | 0.041 | 0.044 |
| 4d | 0.037 | 0.041 |
| Long term | 7d | 0.032 | 0.038 |
| 14d | 0.022 | 0.032 |
| 21d | 0.015 | 0.028 |
| 28d | 0.010 | 0.024 |
| 50d | 0.003 | 0.016 |
| 100d | < 0.001 | 0.009 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑18: PECsoil for acetamiprid on Cabbage (floriculture crops, perennial nursery crops), 2x34 g a.s./ha, BBCH 12, annual ~~and biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Cabbage  (Floriculture crops, perennial nursery crops)** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.057 | - |
| Short term | 24h | 0.054 | 0.056 |
| 2d | 0.052 | 0.054 |
| 4d | 0.046 | 0.052 |
| Long term | 7d | 0.039 | 0.048 |
| 14d | 0.027 | 0.041 |
| 21d | 0.019 | 0.037 |
| 28d | 0.013 | 0.033 |
| 50d | 0.004 | 0.024 |
| 100d | < 0.001 | 0.013 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑19: PECsoil for acetamiprid on Pome fruit (tree nursery crops), 1x46 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Pome fruit Pome fruit (Tree nursery crops)** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.025 | - |
| Short term | 24h | 0.023 | 0.024 |
| 2d | 0.022 | 0.023 |
| 4d | 0.020 | 0.022 |
| Long term | 7d | 0.017 | 0.020 |
| 14d | 0.012 | 0.017 |
| 21d | 0.008 | 0.015 |
| 28d | 0.005 | 0.013 |
| 50d | 0.002 | 0.009 |
| 100d | < 0.001 | 0.005 |
| Plateau concentration (5 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑20: PECsoil for acetamiprid on Pome fruit (tree nursery crops), 2x34 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Pome fruit Pome fruit (Tree nursery crops)** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.031 | - |
| Short term | 24h | 0.029 | 0.030 |
| 2d | 0.027 | 0.029 |
| 4d | 0.025 | 0.028 |
| Long term | 7d | 0.021 | 0.026 |
| 14d | 0.014 | 0.022 |
| 21d | 0.010 | 0.020 |
| 28d | 0.007 | 0.018 |
| 50d | 0.002 | 0.013 |
| 100d | < 0.001 | 0.007 |
| Plateau concentration (5 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

PECsoil of metabolites

Table 8.7‑21: PECsoil for IM-1-2 on Maize, 1x60 g a.s./ha, BBCH 51, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Maize** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.012 | - |
| Short term | 24h | 0.008 | 0.010 |
| 2d | 0.006 | 0.008 |
| 4d | 0.003 | 0.006 |
| Long term | 7d | 0.001 | 0.004 |
| 14d | < 0.001 | 0.002 |
| 21d | < 0.001 | 0.002 |
| 28d | < 0.001 | 0.001 |
| 50d | < 0.001 | 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑22: PECsoil for IM-1-2 on Pome fruit, 1x80 g a.s./ha, BBCH 71, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Pome fruit** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.022 | - |
| Short term | 24h | 0.015 | 0.019 |
| 2d | 0.011 | 0.016 |
| 4d | 0.005 | 0.012 |
| Long term | 7d | 0.002 | 0.008 |
| 14d | < 0.001 | 0.004 |
| 21d | < 0.001 | 0.003 |
| 28d | < 0.001 | 0.002 |
| 50d | < 0.001 | 0.001 |
| 100d | < 0.001 | 0.001 |
| Plateau concentration (5 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑23: PECsoil for IM-1-2 on Pome fruit, 2x25 g a.s./ha, BBCH 62, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Pome fruit** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.008 | - |
| Short term | 24h | 0.006 | 0.007 |
| 2d | 0.004 | 0.006 |
| 4d | 0.002 | 0.005 |
| Long term | 7d | 0.001 | 0.003 |
| 14d | < 0.001 | 0.003 |
| 21d | < 0.001 | 0.002 |
| 28d | < 0.001 | 0.002 |
| 50d | < 0.001 | 0.001 |
| 100d | < 0.001 | 0.001 |
| Plateau concentration (5 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑24: PECsoil for IM-1-2 on Potato, 1x36 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Potato** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.024 | - |
| Short term | 24h | 0.017 | 0.020 |
| 2d | 0.012 | 0.017 |
| 4d | 0.006 | 0.013 |
| Long term | 7d | 0.002 | 0.009 |
| 14d | < 0.001 | 0.005 |
| 21d | < 0.001 | 0.003 |
| 28d | < 0.001 | 0.002 |
| 50d | < 0.001 | 0.001 |
| 100d | < 0.001 | 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑25: PECsoil for IM-1-2 on Spring cereals, 2x35 g a.s./ha, BBCH 40, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Spring cereals** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.003 | - |
| Short term | 24h | 0.002 | 0.002 |
| 2d | 0.001 | 0.002 |
| 4d | 0.001 | 0.002 |
| Long term | 7d | < 0.001 | 0.001 |
| 14d | < 0.001 | 0.001 |
| 21d | < 0.001 | 0.001 |
| 28d | < 0.001 | 0.001 |
| 50d | < 0.001 | < 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑26: PECsoil for IM-1-2 on Spring cereals, 2x35 g a.s./ha, 1st appl.: BBCH 12, 2nd appl.: BBCH 40, annual ~~and biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Spring cereals** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.028 | - |
| Short term | 24h | 0.019 | 0.023 |
| 2d | 0.013 | 0.020 |
| 4d | 0.006 | 0.015 |
| Long term | 7d | 0.002 | 0.011 |
| 14d | < 0.001 | 0.006 |
| 21d | < 0.001 | 0.004 |
| 28d | < 0.001 | 0.003 |
| 50d | < 0.001 | 0.002 |
| 100d | < 0.001 | 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑27: PECsoil for IM-1-2 on Winter cereals, 2x36 g a.s./ha, BBCH 40, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Winter cereals** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.003 | - |
| Short term | 24h | 0.002 | 0.002 |
| 2d | 0.001 | 0.002 |
| 4d | 0.001 | 0.002 |
| Long term | 7d | < 0.001 | 0.001 |
| 14d | < 0.001 | 0.001 |
| 21d | < 0.001 | 0.001 |
| 28d | < 0.001 | 0.001 |
| 50d | < 0.001 | < 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑28: PECsoil for IM-1-2 on Winter cereals, 1x30 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Winter cereals** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.024 | - |
| Short term | 24h | 0.016 | 0.020 |
| 2d | 0.011 | 0.017 |
| 4d | 0.006 | 0.012 |
| Long term | 7d | 0.002 | 0.009 |
| 14d | < 0.001 | 0.005 |
| 21d | < 0.001 | 0.003 |
| 28d | < 0.001 | 0.002 |
| 50d | < 0.001 | 0.001 |
| 100d | < 0.001 | 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑29: PECsoil for IM-1-2 on Oilseed rape, 2x60 g a.s./ha, BBCH 31, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Oilseed rape** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.010 | - |
| Short term | 24h | 0.007 | 0.009 |
| 2d | 0.005 | 0.007 |
| 4d | 0.002 | 0.006 |
| Long term | 7d | 0.001 | 0.005 |
| 14d | < 0.001 | 0.004 |
| 21d | < 0.001 | 0.003 |
| 28d | < 0.001 | 0.002 |
| 50d | < 0.001 | 0.001 |
| 100d | < 0.001 | 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑30: PECsoil for IM-1-2 on Oilseed rape, 1x60 g a.s./ha, BBCH 11, annual ~~biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Oilseed rape** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.028 | - |
| Short term | 24h | 0.020 | 0.024 |
| 2d | 0.014 | 0.020 |
| 4d | 0.007 | 0.015 |
| Long term | 7d | 0.002 | 0.010 |
| 14d | < 0.001 | 0.006 |
| 21d | < 0.001 | 0.004 |
| 28d | < 0.001 | 0.003 |
| 50d | < 0.001 | 0.002 |
| 100d | < 0.001 | 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑31: PECsoil for IM-1-2 on Sugar beet, 2x50 g a.s./ha, BBCH 12, biennial and triennial (note that annual application has been assumed in calculations as representing worst case and covering the intended use pattern)

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Sugar beet** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.034 | - |
| Short term | 24h | 0.024 | 0.029 |
| 2d | 0.016 | 0.025 |
| 4d | 0.008 | 0.019 |
| Long term | 7d | 0.003 | 0.016 |
| 14d | < 0.001 | 0.013 |
| 21d | < 0.001 | 0.009 |
| 28d | < 0.001 | 0.007 |
| 50d | < 0.001 | 0.004 |
| 100d | < 0.001 | 0.002 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑32: PECsoil for IM-1-2 on Onions (flower bulbs and flower tubers), 1x46 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Onions** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.033 | - |
| Short term | 24h | 0.023 | 0.027 |
| 2d | 0.016 | 0.023 |
| 4d | 0.008 | 0.017 |
| Long term | 7d | 0.003 | 0.012 |
| 14d | < 0.001 | 0.006 |
| 21d | < 0.001 | 0.004 |
| 28d | < 0.001 | 0.003 |
| 50d | < 0.001 | 0.002 |
| 100d | < 0.001 | 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑33: PECsoil for IM-1-2 on Onions (flower bulbs and flower tubers), 2x34 g a.s./ha, BBCH 20, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Onions** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.022 | - |
| Short term | 24h | 0.015 | 0.018 |
| 2d | 0.010 | 0.016 |
| 4d | 0.005 | 0.012 |
| Long term | 7d | 0.002 | 0.010 |
| 14d | < 0.001 | 0.009 |
| 21d | < 0.001 | 0.006 |
| 28d | < 0.001 | 0.005 |
| 50d | < 0.001 | 0.003 |
| 100d | < 0.001 | 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑34: PECsoil for IM-1-2 on Onions (flower bulbs and flower tubers), 2x34 g a.s./ha, BBCH 12, annual ~~biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Onions** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.026 | - |
| Short term | 24h | 0.018 | 0.022 |
| 2d | 0.013 | 0.019 |
| 4d | 0.006 | 0.014 |
| Long term | 7d | 0.002 | 0.012 |
| 14d | < 0.001 | 0.010 |
| 21d | < 0.001 | 0.007 |
| 28d | < 0.001 | 0.005 |
| 50d | < 0.001 | 0.003 |
| 100d | < 0.001 | 0.002 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑35: PECsoil for IM-1-2 on Cabbage (floriculture crops, perennial nursery crops), 1x46 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Cabbage** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.027 | - |
| Short term | 24h | 0.019 | 0.023 |
| 2d | 0.013 | 0.019 |
| 4d | 0.006 | 0.014 |
| Long term | 7d | 0.002 | 0.010 |
| 14d | < 0.001 | 0.005 |
| 21d | < 0.001 | 0.004 |
| 28d | < 0.001 | 0.003 |
| 50d | < 0.001 | 0.001 |
| 100d | < 0.001 | 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑36: PECsoil for IM-1-2 on Cabbage (floriculture crops, perennial nursery crops), 2x34 g a.s./ha, BBCH 12, annual ~~and biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Cabbage** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.022 | - |
| Short term | 24h | 0.015 | 0.018 |
| 2d | 0.010 | 0.016 |
| 4d | 0.005 | 0.012 |
| Long term | 7d | 0.002 | 0.010 |
| 14d | < 0.001 | 0.009 |
| 21d | < 0.001 | 0.006 |
| 28d | < 0.001 | 0.005 |
| 50d | < 0.001 | 0.003 |
| 100d | < 0.001 | 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑37: PECsoil for IM-1-2 on Pome fruit (tree nursery crops), 1x46 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Pome fruit** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.015 | - |
| Short term | 24h | 0.010 | 0.012 |
| 2d | 0.007 | 0.010 |
| 4d | 0.003 | 0.008 |
| Long term | 7d | 0.001 | 0.005 |
| 14d | < 0.001 | 0.003 |
| 21d | < 0.001 | 0.002 |
| 28d | < 0.001 | 0.001 |
| 50d | < 0.001 | 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (5 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑38: PECsoil for IM-1-2 on Pome fruit (tree nursery crops), 2x34 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Pome fruit** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.012 | - |
| Short term | 24h | 0.008 | 0.010 |
| 2d | 0.006 | 0.008 |
| 4d | 0.003 | 0.006 |
| Long term | 7d | 0.001 | 0.006 |
| 14d | < 0.001 | 0.005 |
| 21d | < 0.001 | 0.003 |
| 28d | < 0.001 | 0.002 |
| 50d | < 0.001 | 0.001 |
| 100d | < 0.001 | 0.001 |
| Plateau concentration (5 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑39: PECsoil for IM-1-4 on Maize, 1x60 g a.s./ha, BBCH 51, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Maize** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.010 | - |
| Short term | 24h | 0.010 | 0.010 |
| 2d | 0.010 | 0.010 |
| 4d | 0.010 | 0.010 |
| Long term | 7d | 0.010 | 0.010 |
| 14d | 0.009 | 0.010 |
| 21d | 0.009 | 0.010 |
| 28d | 0.009 | 0.009 |
| 50d | 0.008 | 0.009 |
| 100d | 0.006 | 0.008 |
| Plateau concentration (20 cm) after year 26 | | 0.001 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.011 | - |

Table 8.7‑40: PECsoil for IM-1-4 on Pome fruit, 1x80 g a.s./ha, BBCH 71, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Pome fruit** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.019 | - |
| Short term | 24h | 0.019 | 0.019 |
| 2d | 0.019 | 0.019 |
| 4d | 0.019 | 0.019 |
| Long term | 7d | 0.018 | 0.019 |
| 14d | 0.018 | 0.018 |
| 21d | 0.017 | 0.018 |
| 28d | 0.017 | 0.018 |
| 50d | 0.015 | 0.017 |
| 100d | 0.012 | 0.015 |
| Plateau concentration (5 cm) after year 26 | | 0.004 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | 0.023 | - |

Table 8.7‑41: PECsoil for IM-1-4 on Pome fruit, 2x25 g a.s./ha, BBCH 62, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Pome fruit** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.013 | - |
| Short term | 24h | 0.013 | 0.013 |
| 2d | 0.013 | 0.013 |
| 4d | 0.013 | 0.013 |
| Long term | 7d | 0.013 | 0.013 |
| 14d | 0.012 | 0.013 |
| 21d | 0.012 | 0.013 |
| 28d | 0.012 | 0.012 |
| 50d | 0.010 | 0.012 |
| 100d | 0.008 | 0.011 |
| Plateau concentration (5 cm) after year 26 | | 0.003 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | 0.016 | - |

Table 8.7‑42: PECsoil for IM-1-4 on Potato, 1x36 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Potato** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.021 | - |
| Short term | 24h | 0.021 | 0.021 |
| 2d | 0.020 | 0.021 |
| 4d | 0.020 | 0.020 |
| Long term | 7d | 0.020 | 0.020 |
| 14d | 0.019 | 0.020 |
| 21d | 0.019 | 0.020 |
| 28d | 0.018 | 0.019 |
| 50d | 0.016 | 0.018 |
| 100d | 0.013 | 0.016 |
| Plateau concentration (20 cm) after year 26 | | 0.001 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.022 | - |

Table 8.7‑43: PECsoil for IM-1-4 on Spring cereals, 2x35 g a.s./ha, BBCH 40, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Spring cereals** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.005 | - |
| Short term | 24h | 0.005 | 0.005 |
| 2d | 0.005 | 0.005 |
| 4d | 0.005 | 0.005 |
| Long term | 7d | 0.004 | 0.005 |
| 14d | 0.004 | 0.004 |
| 21d | 0.004 | 0.004 |
| 28d | 0.004 | 0.004 |
| 50d | 0.004 | 0.004 |
| 100d | 0.003 | 0.004 |
| Plateau concentration (20 cm) after year 26 | | < 0.001 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.005 | - |

Table 8.7‑44: PECsoil for IM-1-4 on Spring cereals, 2x35 g a.s./ha, 1st appl.: BBCH 12, 2nd appl.: BBCH 40, annual ~~and biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Spring cereals** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.024 | - |
| Short term | 24h | 0.023 | 0.024 |
| 2d | 0.023 | 0.023 |
| 4d | 0.023 | 0.023 |
| Long term | 7d | 0.023 | 0.023 |
| 14d | 0.022 | 0.023 |
| 21d | 0.021 | 0.022 |
| 28d | 0.021 | 0.022 |
| 50d | 0.019 | 0.022 |
| 100d | 0.015 | 0.020 |
| Plateau concentration (20 cm) after year 46 | | 0.001 (annual) ~~< 0.001 (biennial)~~ | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.025 (annual) ~~0.024 (biennial)~~ | - |

Table 8.7‑45: PECsoil for IM-1-4 on Winter cereals, 2x36 g a.s./ha, BBCH 40, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Winter cereals** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.005 | - |
| Short term | 24h | 0.005 | 0.005 |
| 2d | 0.005 | 0.005 |
| 4d | 0.005 | 0.005 |
| Long term | 7d | 0.005 | 0.005 |
| 14d | 0.004 | 0.005 |
| 21d | 0.004 | 0.005 |
| 28d | 0.004 | 0.004 |
| 50d | 0.004 | 0.004 |
| 100d | 0.003 | 0.004 |
| Plateau concentration (20 cm) after year 26 | | < 0.001 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.005 | - |

Table 8.7‑46: PECsoil for IM-1-4 on Winter cereals, 1x30 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Winter cereals** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.020 | - |
| Short term | 24h | 0.020 | 0.020 |
| 2d | 0.020 | 0.020 |
| 4d | 0.020 | 0.020 |
| Long term | 7d | 0.020 | 0.020 |
| 14d | 0.019 | 0.020 |
| 21d | 0.018 | 0.019 |
| 28d | 0.018 | 0.019 |
| 50d | 0.016 | 0.018 |
| 100d | 0.013 | 0.016 |
| Plateau concentration (20 cm) after year 26 | | 0.001 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.021 | - |

Table 8.7‑47: PECsoil for IM-1-4 on Oilseed rape, 2x60 g a.s./ha, BBCH 31, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Oilseed rape** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.016 | - |
| Short term | 24h | 0.016 | 0.016 |
| 2d | 0.016 | 0.016 |
| 4d | 0.016 | 0.016 |
| Long term | 7d | 0.015 | 0.016 |
| 14d | 0.015 | 0.015 |
| 21d | 0.014 | 0.015 |
| 28d | 0.014 | 0.015 |
| 50d | 0.013 | 0.014 |
| 100d | 0.010 | 0.013 |
| Plateau concentration (20 cm) after year 26 | | 0.001 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.017 | - |

Table 8.7‑48: PECsoil for IM-1-4 on Oilseed rape (winter), 1x60 g a.s./ha, BBCH 11, annual ~~biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Oilseed rape (winter)** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.024 | - |
| Short term | 24h | 0.024 | 0.024 |
| 2d | 0.024 | 0.024 |
| 4d | 0.024 | 0.024 |
| Long term | 7d | 0.023 | 0.024 |
| 14d | 0.023 | 0.023 |
| 21d | 0.022 | 0.023 |
| 28d | 0.021 | 0.023 |
| 50d | 0.019 | 0.022 |
| 100d | 0.015 | 0.019 |
| Plateau concentration (20 cm) after year 46 | | < 0.001 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.024 | - |

Table 8.7‑49: PECsoil for IM-1-4 on Sugar beet, 2x50 g a.s./ha, BBCH 12, biennial and triennial (note that annual application has been assumed in calculations as representing worst case and covering the intended use pattern)

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Sugar beet** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.053 | - |
| Short term | 24h | 0.053 | 0.053 |
| 2d | 0.053 | 0.053 |
| 4d | 0.052 | 0.053 |
| Long term | 7d | 0.051 | 0.052 |
| 14d | 0.050 | 0.051 |
| 21d | 0.048 | 0.050 |
| 28d | 0.046 | 0.050 |
| 50d | 0.042 | 0.047 |
| 100d | 0.033 | 0.042 |
| Plateau concentration (20 cm) after year 63 | | < 0.001 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.053 | - |

Table 8.7‑50: PECsoil for IM-1-4 on Onions (flower bulbs and flower tubers), 1x46 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Onions** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.023 | - |
| Short term | 24h | 0.023 | 0.023 |
| 2d | 0.023 | 0.023 |
| 4d | 0.023 | 0.023 |
| Long term | 7d | 0.022 | 0.023 |
| 14d | 0.022 | 0.023 |
| 21d | 0.021 | 0.022 |
| 28d | 0.020 | 0.022 |
| 50d | 0.018 | 0.021 |
| 100d | 0.014 | 0.019 |
| Plateau concentration (20 cm) after year 26 | | 0.001 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.025 | - |

~~Table 8.7‑51: PEC~~~~soil~~ ~~for IM-1-4 on Onions (flower bulbs and flower tubers), 2x34 g a.s./ha, BBCH 20, annual~~

|  |  |  |  |
| --- | --- | --- | --- |
| **~~PEC~~~~soil~~**  **~~(mg/kg)~~** | | **~~Onions~~** | |
| **~~Multiple applications~~** | |
| **~~Actual~~** | **~~TWA~~** |
| ~~Initial~~ | | ~~0.034~~ | ~~-~~ |
| ~~Short term~~ | ~~24h~~ | ~~0.034~~ | ~~0.034~~ |
| ~~2d~~ | ~~0.034~~ | ~~0.034~~ |
| ~~4d~~ | ~~0.033~~ | ~~0.034~~ |
| ~~Long term~~ | ~~7d~~ | ~~0.033~~ | ~~0.033~~ |
| ~~14d~~ | ~~0.032~~ | ~~0.033~~ |
| ~~21d~~ | ~~0.031~~ | ~~0.032~~ |
| ~~28d~~ | ~~0.030~~ | ~~0.032~~ |
| ~~50d~~ | ~~0.027~~ | ~~0.030~~ |
| ~~100d~~ | ~~0.021~~ | ~~0.027~~ |
| ~~Plateau concentration (20 cm) after year 26~~ | | ~~0.002~~ | ~~-~~ |
| ~~PEC~~~~accumulation~~ ~~(PEC~~~~act~~ ~~(5 cm) + PEC~~~~soil plateau~~ ~~(20 cm))~~ | | ~~0.036~~ | ~~-~~ |

Table 8.7‑52: PECsoil for IM-1-4 on Onions (flower bulbs and flower tubers), 2x34 g a.s./ha, BBCH 12 and BBCH 20, annual ~~biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Onions** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.041 | - |
| Short term | 24h | 0.040 | 0.040 |
| 2d | 0.040 | 0.040 |
| 4d | 0.040 | 0.040 |
| Long term | 7d | 0.039 | 0.040 |
| 14d | 0.038 | 0.039 |
| 21d | 0.037 | 0.039 |
| 28d | 0.036 | 0.038 |
| 50d | 0.032 | 0.036 |
| 100d | 0.025 | 0.032 |
| Plateau concentration (20 cm) after year 46 | | < 0.001 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.041 | - |

Table 8.7‑53: PECsoil for IM-1-4 on Cabbage (floriculture crops, perennial nursery crops), 1x46 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Cabbage** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.023 | - |
| Short term | 24h | 0.023 | 0.023 |
| 2d | 0.023 | 0.023 |
| 4d | 0.023 | 0.023 |
| Long term | 7d | 0.022 | 0.023 |
| 14d | 0.022 | 0.023 |
| 21d | 0.021 | 0.022 |
| 28d | 0.020 | 0.022 |
| 50d | 0.018 | 0.021 |
| 100d | 0.014 | 0.019 |
| Plateau concentration (20 cm) after year 26 | | 0.001 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.025 | - |

Table 8.7‑54: PECsoil for IM-1-4 on Cabbage (floriculture crops, perennial nursery crops), 2x34 g a.s./ha, BBCH 12, annual ~~and biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Cabbage** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.034 | - |
| Short term | 24h | 0.034 | 0.034 |
| 2d | 0.034 | 0.034 |
| 4d | 0.033 | 0.034 |
| Long term | 7d | 0.033 | 0.033 |
| 14d | 0.032 | 0.033 |
| 21d | 0.031 | 0.032 |
| 28d | 0.030 | 0.032 |
| 50d | 0.027 | 0.030 |
| 100d | 0.021 | 0.027 |
| Plateau concentration (20 cm) after year 46 | | 0.002 (annual) ~~< 0.001 (biennial)~~ | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.036 (annual) ~~0.034 (biennial)~~ | - |

Table 8.7‑55: PECsoil for IM-1-4 on Pome fruit (tree nursery crops), 1x46 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Pome fruit** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.012 | - |
| Short term | 24h | 0.012 | 0.012 |
| 2d | 0.012 | 0.012 |
| 4d | 0.012 | 0.012 |
| Long term | 7d | 0.012 | 0.012 |
| 14d | 0.012 | 0.012 |
| 21d | 0.011 | 0.012 |
| 28d | 0.011 | 0.012 |
| 50d | 0.010 | 0.011 |
| 100d | 0.008 | 0.010 |
| Plateau concentration (5 cm) after year 26 | | 0.003 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | 0.015 | - |

Table 8.7‑56: PECsoil for IM-1-4 on Pome fruit (tree nursery crops), 2x34 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Pome fruit** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.018 | - |
| Short term | 24h | 0.018 | 0.018 |
| 2d | 0.018 | 0.018 |
| 4d | 0.018 | 0.018 |
| Long term | 7d | 0.017 | 0.018 |
| 14d | 0.017 | 0.017 |
| 21d | 0.016 | 0.017 |
| 28d | 0.016 | 0.017 |
| 50d | 0.014 | 0.016 |
| 100d | 0.011 | 0.014 |
| Plateau concentration (5 cm) after year 26 | | 0.004 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | 0.022 | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑57: PECsoil for IC-0 on Maize, 1x60 g a.s./ha, BBCH 51, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Maize** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.002 | - |
| Short term | 24h | 0.001 | 0.002 |
| 2d | 0.001 | 0.001 |
| 4d | 0.001 | 0.001 |
| Long term | 7d | 0.001 | 0.001 |
| 14d | < 0.001 | 0.001 |
| 21d | < 0.001 | 0.001 |
| 28d | < 0.001 | < 0.001 |
| 50d | < 0.001 | < 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑58: PECsoil for IC-0 on Pome fruit, 1x80 g a.s./ha, BBCH 71, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Pome fruit** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.003 | - |
| Short term | 24h | 0.003 | 0.003 |
| 2d | 0.002 | 0.003 |
| 4d | 0.002 | 0.002 |
| Long term | 7d | 0.001 | 0.002 |
| 14d | 0.001 | 0.001 |
| 21d | < 0.001 | 0.001 |
| 28d | < 0.001 | 0.001 |
| 50d | < 0.001 | < 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (5 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑59: PECsoil for IC-0 on Pome fruit, 2x25 g a.s./ha, BBCH 62, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Pome fruit** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.001 | - |
| Short term | 24h | 0.001 | 0.001 |
| 2d | 0.001 | 0.001 |
| 4d | 0.001 | 0.001 |
| Long term | 7d | 0.001 | 0.001 |
| 14d | < 0.001 | 0.001 |
| 21d | < 0.001 | 0.001 |
| 28d | < 0.001 | 0.001 |
| 50d | < 0.001 | < 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (5 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑60: PECsoil for IC-0 on Potato, 1x36 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Potato** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.003 | - |
| Short term | 24h | 0.003 | 0.003 |
| 2d | 0.003 | 0.003 |
| 4d | 0.002 | 0.003 |
| Long term | 7d | 0.001 | 0.002 |
| 14d | 0.001 | 0.002 |
| 21d | < 0.001 | 0.001 |
| 28d | < 0.001 | 0.001 |
| 50d | < 0.001 | 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑61: PECsoil for IC-0 on Spring cereals, 2x35 g a.s./ha, BBCH 40, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Spring cereals** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | < 0.001 | - |
| Short term | 24h | < 0.001 | < 0.001 |
| 2d | < 0.001 | < 0.001 |
| 4d | < 0.001 | < 0.001 |
| Long term | 7d | < 0.001 | < 0.001 |
| 14d | < 0.001 | < 0.001 |
| 21d | < 0.001 | < 0.001 |
| 28d | < 0.001 | < 0.001 |
| 50d | < 0.001 | < 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑62: PECsoil for IC-0 on Spring cereals, 2x35 g a.s./ha, 1st appl.: BBCH 12, 2nd appl.: BBCH 40, annual ~~and biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Spring cereals** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.004 | - |
| Short term | 24h | 0.003 | 0.004 |
| 2d | 0.003 | 0.003 |
| 4d | 0.002 | 0.003 |
| Long term | 7d | 0.002 | 0.003 |
| 14d | 0.001 | 0.002 |
| 21d | < 0.001 | 0.001 |
| 28d | < 0.001 | 0.001 |
| 50d | < 0.001 | 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑63: PECsoil for IC-0 on Winter cereals, 2x36 g a.s./ha, BBCH 40, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Winter cereals** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | < 0.001 | - |
| Short term | 24h | < 0.001 | < 0.001 |
| 2d | < 0.001 | < 0.001 |
| 4d | < 0.001 | < 0.001 |
| Long term | 7d | < 0.001 | < 0.001 |
| 14d | < 0.001 | < 0.001 |
| 21d | < 0.001 | < 0.001 |
| 28d | < 0.001 | < 0.001 |
| 50d | < 0.001 | < 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑64: PECsoil for IC-0 on Winter cereals, 1x30 g a.s./ha, BBCH 12, annual ~~and biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Winter cereals** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.003 | - |
| Short term | 24h | 0.003 | 0.003 |
| 2d | 0.002 | 0.003 |
| 4d | 0.002 | 0.003 |
| Long term | 7d | 0.001 | 0.002 |
| 14d | 0.001 | 0.002 |
| 21d | < 0.001 | 0.001 |
| 28d | < 0.001 | 0.001 |
| 50d | < 0.001 | 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑65: PECsoil for IC-0 on Oilseed rape, 2x60 g a.s./ha, BBCH 31, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Oilseed rape** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.002 | - |
| Short term | 24h | 0.002 | 0.002 |
| 2d | 0.001 | 0.002 |
| 4d | 0.001 | 0.001 |
| Long term | 7d | 0.001 | 0.001 |
| 14d | < 0.001 | 0.001 |
| 21d | < 0.001 | 0.001 |
| 28d | < 0.001 | 0.001 |
| 50d | < 0.001 | < 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑66: PECsoil for IC-0 on Oilseed rape (winter), 1x60 g a.s./ha, BBCH 11, annual ~~biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Oilseed rape (winter)** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.004 | - |
| Short term | 24h | 0.003 | 0.004 |
| 2d | 0.003 | 0.003 |
| 4d | 0.002 | 0.003 |
| Long term | 7d | 0.002 | 0.003 |
| 14d | 0.001 | 0.002 |
| 21d | < 0.001 | 0.001 |
| 28d | < 0.001 | 0.001 |
| 50d | < 0.001 | 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑67: PECsoil for IC-0 on Sugar beet, 2x50 g a.s./ha, BBCH 12, biennial and triennial (note that annual application has been assumed in calculations as representing worst case and covering the intended use pattern)

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Sugar beet** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.006 | - |
| Short term | 24h | 0.005 | 0.006 |
| 2d | 0.005 | 0.005 |
| 4d | 0.004 | 0.005 |
| Long term | 7d | 0.003 | 0.004 |
| 14d | 0.001 | 0.004 |
| 21d | < 0.001 | 0.003 |
| 28d | < 0.001 | 0.002 |
| 50d | < 0.001 | 0.001 |
| 100d | < 0.001 | 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑68: PECsoil for IC-0 on Onions (flower bulbs and flower tubers), 1x46 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Onions** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.004 | - |
| Short term | 24h | 0.004 | 0.004 |
| 2d | 0.003 | 0.004 |
| 4d | 0.003 | 0.003 |
| Long term | 7d | 0.002 | 0.003 |
| 14d | 0.001 | 0.002 |
| 21d | < 0.001 | 0.002 |
| 28d | < 0.001 | 0.001 |
| 50d | < 0.001 | 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑69: PECsoil for IC-0 on Onions (flower bulbs and flower tubers), 2x34 g a.s./ha, BBCH 20, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Onions** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.004 | - |
| Short term | 24h | 0.003 | 0.004 |
| 2d | 0.003 | 0.003 |
| 4d | 0.002 | 0.003 |
| Long term | 7d | 0.002 | 0.003 |
| 14d | 0.001 | 0.002 |
| 21d | < 0.001 | 0.002 |
| 28d | < 0.001 | 0.002 |
| 50d | < 0.001 | 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑70: PECsoil for IC-0 on Onions (flower bulbs and flower tubers), 2x34 g a.s./ha, BBCH 12, annual ~~biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Onions** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.005 | - |
| Short term | 24h | 0.004 | 0.004 |
| 2d | 0.004 | 0.004 |
| 4d | 0.003 | 0.004 |
| Long term | 7d | 0.002 | 0.003 |
| 14d | 0.001 | 0.003 |
| 21d | < 0.001 | 0.002 |
| 28d | < 0.001 | 0.002 |
| 50d | < 0.001 | 0.001 |
| 100d | < 0.001 | 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑71: PECsoil for IC-0 on Cabbage (floriculture crops, perennial nursery crops), 1x46 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Cabbage** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.004 | - |
| Short term | 24h | 0.003 | 0.003 |
| 2d | 0.003 | 0.003 |
| 4d | 0.002 | 0.003 |
| Long term | 7d | 0.002 | 0.002 |
| 14d | 0.001 | 0.002 |
| 21d | < 0.001 | 0.001 |
| 28d | < 0.001 | 0.001 |
| 50d | < 0.001 | 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑72: PECsoil for IC-0 on Cabbage (floriculture crops, perennial nursery crops), 2x34 g a.s./ha, BBCH 12, annual ~~and biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Cabbage** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.004 | - |
| Short term | 24h | 0.003 | 0.004 |
| 2d | 0.003 | 0.003 |
| 4d | 0.002 | 0.003 |
| Long term | 7d | 0.002 | 0.003 |
| 14d | 0.001 | 0.002 |
| 21d | < 0.001 | 0.002 |
| 28d | < 0.001 | 0.002 |
| 50d | < 0.001 | 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (20 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑73: PECsoil for IC-0 on Pome fruit (tree nursery crops), 1x46 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Pome fruit** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.002 | - |
| Short term | 24h | 0.002 | 0.002 |
| 2d | 0.002 | 0.002 |
| 4d | 0.001 | 0.002 |
| Long term | 7d | 0.001 | 0.001 |
| 14d | < 0.001 | 0.001 |
| 21d | < 0.001 | 0.001 |
| 28d | < 0.001 | 0.001 |
| 50d | < 0.001 | < 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (5 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑74: PECsoil for IC-0 on Pome fruit (tree nursery crops), 2x34 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Pome fruit** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.002 | - |
| Short term | 24h | 0.002 | 0.002 |
| 2d | 0.002 | 0.002 |
| 4d | 0.001 | 0.002 |
| Long term | 7d | 0.001 | 0.001 |
| 14d | < 0.001 | 0.001 |
| 21d | < 0.001 | 0.001 |
| 28d | < 0.001 | 0.001 |
| 50d | < 0.001 | < 0.001 |
| 100d | < 0.001 | < 0.001 |
| Plateau concentration (5 cm) after year 26 | | -a) | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | -a) | - |

a) Not calculated due to DT50 < 90 days

Table 8.7‑75: PECsoil for IM-1-5 on Maize, 1x60 g a.s./ha, BBCH 51, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Maize** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.004 | - |
| Short term | 24h | 0.004 | 0.004 |
| 2d | 0.004 | 0.004 |
| 4d | 0.004 | 0.004 |
| Long term | 7d | 0.004 | 0.004 |
| 14d | 0.004 | 0.004 |
| 21d | 0.003 | 0.004 |
| 28d | 0.003 | 0.004 |
| 50d | 0.003 | 0.003 |
| 100d | 0.003 | 0.003 |
| Plateau concentration (20 cm) after year 26 | | 0.003 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.007 | - |

Table 8.7‑76: PECsoil for IM-1-5 on Pome fruit, 1x80 g a.s./ha, BBCH 71, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Pome fruit** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.007 | - |
| Short term | 24h | 0.007 | 0.007 |
| 2d | 0.007 | 0.007 |
| 4d | 0.007 | 0.007 |
| Long term | 7d | 0.007 | 0.007 |
| 14d | 0.007 | 0.007 |
| 21d | 0.007 | 0.007 |
| 28d | 0.006 | 0.007 |
| 50d | 0.006 | 0.007 |
| 100d | 0.006 | 0.006 |
| Plateau concentration (5 cm) after year 26 | | 0.023 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | 0.030 | - |

Table 8.7‑77: PECsoil for IM-1-5 on Pome fruit, 2x25 g a.s./ha, BBCH 62, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Pome fruit** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.005 | - |
| Short term | 24h | 0.005 | 0.005 |
| 2d | 0.005 | 0.005 |
| 4d | 0.005 | 0.005 |
| Long term | 7d | 0.005 | 0.005 |
| 14d | 0.005 | 0.005 |
| 21d | 0.005 | 0.005 |
| 28d | 0.005 | 0.005 |
| 50d | 0.005 | 0.005 |
| 100d | 0.004 | 0.005 |
| Plateau concentration (5 cm) after year 26 | | 0.016 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | 0.021 | - |

Table 8.7‑78: PECsoil for IM-1-5 on Potato, 1x36 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Potato** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.007 | - |
| Short term | 24h | 0.007 | 0.007 |
| 2d | 0.007 | 0.007 |
| 4d | 0.007 | 0.007 |
| Long term | 7d | 0.007 | 0.007 |
| 14d | 0.007 | 0.007 |
| 21d | 0.007 | 0.007 |
| 28d | 0.007 | 0.007 |
| 50d | 0.007 | 0.007 |
| 100d | 0.007 | 0.007 |
| Plateau concentration (20 cm) after year 26 | | 0.006 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.014 | - |

Table 8.7‑79: PECsoil for IM-1-5 on Spring cereals, 2x35 g a.s./ha, BBCH 40, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Spring cereals** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.002 | - |
| Short term | 24h | 0.002 | 0.002 |
| 2d | 0.002 | 0.002 |
| 4d | 0.002 | 0.002 |
| Long term | 7d | 0.002 | 0.002 |
| 14d | 0.002 | 0.002 |
| 21d | 0.002 | 0.002 |
| 28d | 0.002 | 0.002 |
| 50d | 0.002 | 0.002 |
| 100d | 0.002 | 0.002 |
| Plateau concentration (20 cm) after year 26 | | 0.001 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.003 | - |

Table 8.7‑80: PECsoil for IM-1-5 on Spring cereals, 2x35 g a.s./ha, 1st appl.: BBCH 12, 2nd appl.: BBCH 40, annual ~~and biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Spring cereals** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.009 | - |
| Short term | 24h | 0.009 | 0.009 |
| 2d | 0.009 | 0.009 |
| 4d | 0.009 | 0.009 |
| Long term | 7d | 0.009 | 0.009 |
| 14d | 0.009 | 0.009 |
| 21d | 0.009 | 0.009 |
| 28d | 0.009 | 0.009 |
| 50d | 0.009 | 0.009 |
| 100d | 0.008 | 0.009 |
| Plateau concentration (20 cm) after year 46 | | 0.008 (annual) ~~0.003 (biennial)~~ | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.017 (annual) ~~0.012 (biennial)~~ | - |

Table 8.7‑81: PECsoil for IM-1-5 on Winter cereals, 2x36 g a.s./ha, BBCH 40, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Winter cereals** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.002 | - |
| Short term | 24h | 0.002 | 0.002 |
| 2d | 0.002 | 0.002 |
| 4d | 0.002 | 0.002 |
| Long term | 7d | 0.002 | 0.002 |
| 14d | 0.002 | 0.002 |
| 21d | 0.002 | 0.002 |
| 28d | 0.002 | 0.002 |
| 50d | 0.002 | 0.002 |
| 100d | 0.002 | 0.002 |
| Plateau concentration (20 cm) after year 26 | | 0.001 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.003 | - |

Table 8.7‑82: PECsoil for IM-1-5 on Winter cereals, 1x30 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Winter cereals** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.007 | - |
| Short term | 24h | 0.007 | 0.007 |
| 2d | 0.007 | 0.007 |
| 4d | 0.007 | 0.007 |
| Long term | 7d | 0.007 | 0.007 |
| 14d | 0.007 | 0.007 |
| 21d | 0.007 | 0.007 |
| 28d | 0.007 | 0.007 |
| 50d | 0.007 | 0.007 |
| 100d | 0.007 | 0.007 |
| Plateau concentration (20 cm) after year 26 | | 0.006 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.013 | - |

Table 8.7‑83: PECsoil for IM-1-5 on Oilseed rape, 2x60 g a.s./ha, BBCH 31, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Oilseed rape** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.006 | - |
| Short term | 24h | 0.006 | 0.006 |
| 2d | 0.006 | 0.006 |
| 4d | 0.006 | 0.006 |
| Long term | 7d | 0.006 | 0.006 |
| 14d | 0.006 | 0.006 |
| 21d | 0.006 | 0.006 |
| 28d | 0.006 | 0.006 |
| 50d | 0.005 | 0.006 |
| 100d | 0.005 | 0.005 |
| Plateau concentration (20 cm) after year 26 | | 0.005 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.011 | - |

Table 8.7‑84: PECsoil for IM-1-5 on Oilseed rape (winter), 1x60 g a.s./ha, BBCH 11, annual ~~biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Oilseed rape (winter)** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.009 | - |
| Short term | 24h | 0.009 | 0.009 |
| 2d | 0.008 | 0.009 |
| 4d | 0.008 | 0.008 |
| Long term | 7d | 0.008 | 0.008 |
| 14d | 0.008 | 0.008 |
| 21d | 0.008 | 0.008 |
| 28d | 0.008 | 0.008 |
| 50d | 0.008 | 0.008 |
| 100d | 0.008 | 0.008 |
| Plateau concentration (20 cm) after year 46 | | 0.003 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.012 | - |

Table 8.7‑85: PECsoil for IM-1-5 on Sugar beet, 2x50 g a.s./ha, BBCH 12, biennial and triennial (note that annual application has been assumed in calculations as representing worst case and covering the intended use pattern)

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Sugar beet** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.019 | - |
| Short term | 24h | 0.019 | 0.019 |
| 2d | 0.019 | 0.019 |
| 4d | 0.019 | 0.019 |
| Long term | 7d | 0.019 | 0.019 |
| 14d | 0.019 | 0.019 |
| 21d | 0.019 | 0.019 |
| 28d | 0.019 | 0.019 |
| 50d | 0.018 | 0.019 |
| 100d | 0.018 | 0.018 |
| Plateau concentration (20 cm) after year 63 | | 0.004 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.023 | - |

Table 8.7‑86: PECsoil for IM-1-5 on Onions (flower bulbs and flower tubers), 1x46 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Onions** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.010 | - |
| Short term | 24h | 0.010 | 0.010 |
| 2d | 0.010 | 0.010 |
| 4d | 0.010 | 0.010 |
| Long term | 7d | 0.010 | 0.010 |
| 14d | 0.010 | 0.010 |
| 21d | 0.010 | 0.010 |
| 28d | 0.010 | 0.010 |
| 50d | 0.009 | 0.010 |
| 100d | 0.009 | 0.009 |
| Plateau concentration (20 cm) after year 26 | | 0.008 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.018 | - |

Table 8.7‑87: PECsoil for IM-1-5 on Onions (flower bulbs and flower tubers), 2x34 g a.s./ha, BBCH 20, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Onions** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.012 | - |
| Short term | 24h | 0.012 | 0.012 |
| 2d | 0.012 | 0.012 |
| 4d | 0.012 | 0.012 |
| Long term | 7d | 0.012 | 0.012 |
| 14d | 0.012 | 0.012 |
| 21d | 0.012 | 0.012 |
| 28d | 0.012 | 0.012 |
| 50d | 0.012 | 0.012 |
| 100d | 0.011 | 0.012 |
| Plateau concentration (20 cm) after year 26 | | 0.010 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.023 | - |

Table 8.7‑88: PECsoil for IM-1-5 on Onions (flower bulbs and flower tubers), 2x34 g a.s./ha, BBCH 12, annual ~~biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Onions** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.014 | - |
| Short term | 24h | 0.014 | 0.014 |
| 2d | 0.014 | 0.014 |
| 4d | 0.014 | 0.014 |
| Long term | 7d | 0.014 | 0.014 |
| 14d | 0.014 | 0.014 |
| 21d | 0.014 | 0.014 |
| 28d | 0.014 | 0.014 |
| 50d | 0.014 | 0.014 |
| 100d | 0.013 | 0.014 |
| Plateau concentration (20 cm) after year 46 | | 0.006 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.020 | - |

Table 8.7‑89: PECsoil for IM-1-5 on Cabbage (floriculture crops, perennial nursery crops), 1x46 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Cabbage** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.008 | - |
| Short term | 24h | 0.008 | 0.008 |
| 2d | 0.008 | 0.008 |
| 4d | 0.008 | 0.008 |
| Long term | 7d | 0.008 | 0.008 |
| 14d | 0.008 | 0.008 |
| 21d | 0.008 | 0.008 |
| 28d | 0.008 | 0.008 |
| 50d | 0.008 | 0.008 |
| 100d | 0.008 | 0.008 |
| Plateau concentration (20 cm) after year 26 | | 0.007 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.015 | - |

Table 8.7‑90: PECsoil for IM-1-5 on Cabbage (floriculture crops, perennial nursery crops), 2x34 g a.s./ha, BBCH 12, annual ~~and biennial~~

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Cabbage** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.012 | - |
| Short term | 24h | 0.012 | 0.012 |
| 2d | 0.012 | 0.012 |
| 4d | 0.012 | 0.012 |
| Long term | 7d | 0.012 | 0.012 |
| 14d | 0.012 | 0.012 |
| 21d | 0.012 | 0.012 |
| 28d | 0.012 | 0.012 |
| 50d | 0.012 | 0.012 |
| 100d | 0.011 | 0.012 |
| Plateau concentration (20 cm) after year 46 | | 0.010 (annual) ~~0.005 (biennial)~~ | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (20 cm)) | | 0.023 (annual) ~~0.017 (biennial)~~ | - |

Table 8.7‑91: PECsoil for IM-1-5 on Pome fruit (tree nursery crops), 1x46 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Pome fruit** | |
| **Single application** | |
| **Actual** | **TWA** |
| Initial | | 0.004 | - |
| Short term | 24h | 0.004 | 0.004 |
| 2d | 0.004 | 0.004 |
| 4d | 0.004 | 0.004 |
| Long term | 7d | 0.004 | 0.004 |
| 14d | 0.004 | 0.004 |
| 21d | 0.004 | 0.004 |
| 28d | 0.004 | 0.004 |
| 50d | 0.004 | 0.004 |
| 100d | 0.004 | 0.004 |
| Plateau concentration (5 cm) after year 26 | | 0.015 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | 0.019 | - |

Table 8.7‑92: PECsoil for IM-1-5 on Pome fruit (tree nursery crops), 2x34 g a.s./ha, BBCH 12, annual

|  |  |  |  |
| --- | --- | --- | --- |
| **PECsoil**  **(mg/kg)** | | **Pome fruit** | |
| **Multiple applications** | |
| **Actual** | **TWA** |
| Initial | | 0.006 | - |
| Short term | 24h | 0.006 | 0.006 |
| 2d | 0.006 | 0.006 |
| 4d | 0.006 | 0.006 |
| Long term | 7d | 0.006 | 0.006 |
| 14d | 0.006 | 0.006 |
| 21d | 0.006 | 0.006 |
| 28d | 0.006 | 0.006 |
| 50d | 0.006 | 0.006 |
| 100d | 0.006 | 0.006 |
| Plateau concentration (5 cm) after year 26 | | 0.022 | - |
| PECaccumulation (PECact (5 cm) + PECsoil plateau (5 cm)) | | 0.029 | - |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **zRMS comments:**  Input parameters for acetamiprid and its metabolites presented in Table 8.7-2 are in line with EU agreed endpoints reported in EFSA Journal 2016;14(11):4610.  The use pattern presented in Table 8.7-1 is in general in line with the GAP table presented in point 8.1 with following exception and remarks:   * For application to apples (uses No. 4, 6, 9, 11, 13, 15). lower application rate of 60 g a.s./ha is presented in the GAP table. Since calculations presented in Table 8.7-4 were performed for higher application rate (1 x 80 g a.s./ha) thus it covers rate of 60 g a.s./ha and additional calculation is not necessary. * For application to spring cereals for uses No. 24, 28, 31 single annual application rate of 35 g a.s./ha and at BBCH stage of 20-29 is presented in the GAP table, with crop interception of 20 %, thus respective changes were introduced to the Table 8.7-1. Calculation presented in Table 8.7-8 were performed for single application rate of 35 g a.s./ha and BBCH stage of 12-29, where crop interception of 0% was considered, since this presents a worse case, additional calculation for uses No. 24, 28, 31 are not necessary. * For application to spring cereals for use No. 26 double application rate (2 x 35 g a.s./ha) at BBCH stage of 12-29 (1st application) and 40-69 (2nd application) is presented in the GAP table, thus respective changes were introduced to the Table 8.7-1. Since presented in Table 8.7-8 PECsoil values correspond to single application, zRMS performed additional calculation for multiple application and add obtained PECsoil values to the Table 8.7-8. * For application to winter cereals (use No. 40) lower application rate of 29 g a.s./ha is presented in the GAP table. Since calculations presented in Table 8.7-10 were performed for higher application rate (1 x 30 g a.s./ha) thus it covers rate of 29 g a.s./ha and additional calculation is not necessary. * For application to winter oilseed rape (uses No. 44, 52, 59, 61, 65) lower application rate of 48 g a.s./ha is presented in the GAP table. Since calculations presented in Table 8.7- 12 were performed for higher application rate (1 x 60 g a.s./ha) thus it covers rate of 48 g a.s./ha and additional calculation is not necessary. * For application to winter oilseed rape (uses No. 45 and 60) lower application rate of 40 g a.s./ha is presented in the GAP table. Since calculations presented in Table 8.7-12 were performed for higher application rate (1 x 60 g a.s./ha) thus it covers rate of 40 g a.s./ha and additional calculation is not necessary. * For application to sugar beet (uses No. 80-84) presented calculations refer only to double application at rate 2 x 50 g a.s./ha. It is noted that in the GAP table uses of single application at rate of 50 g a.s./ha is also presented for uses No. 80, 81b, 83b, 84. Since calculations performed for double application (2 x 50 g a.s./ha) covers single application (1x 50 g a.s./ha) additional calculation is not necessary. * For application to flower bulbs and flower tubers (use No. 87) single application at rate of 34 g a.s./ha is presented in the GAP table. Since calculations were performed for double application (2 x 34 g a.s./ha) it covers rate of single application (1x 34 g a.s./ha), and additional calculation is not necessary. * For application to floriculture crops, perennial nursery crops (use No. 90) single application at rate of 34 g a.s./ha is presented in the GAP table. Since calculations were performed for double application (2 x 34 g a.s./ha) it covers rate of single application (1x 34 g a.s./ha), and additional calculation is not necessary.   The soil exposure for acetamiprid and its metabolites has been independently validated by the zRMS using FOCUS methods using EU agreed endpoints and the pseudo-application rates of metabolites derived with consideration of the parent rate, molar ratio and peak occurrence in soil.  The calculated PECSOIL values were similar to those obtained by the Applicant, and therefore results reported in tables above may be used for the soil risk assessment purposes.  The new calculation for acetamiprid were required by ecotox expert for the evaluation of the soil risk assessment for following uses: pome fruit, 1x60 g a.s./ha at BBCH 71; oilseed rape (winter), 1x48 g a.s./ha at BBCH 11; sugar beet, 1x50 g a.s./ha at BBCH 12; and floriculture crops, perennial nursery crops, 1x34 g a.s./ha at BBCH 12. The PECSOIL results are presented in the table below. The PECSOIL,ACCU was not required as DT50 is below 100 days. The short- and long-term PECSOIL values are not reported below as they are not necessary for the risk assessment purposes. Only 21 TWA PECSOIL is provided as being required for evaluation of the risk of secondary poisoning for birds and mammals.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **PECS**  **(mg/kg** | **Pome fruit, 1x60 g a.s./ha, BBCH 71, annual** | **Oilseed rape (winter), 1x48 g a.s./ha, BBCH 11, annual** | **Sugar beet, 1x50 g a.s./ha, BBCH 12, biennial\* ~~triennial~~** | **floriculture crops, perennial nursery crops), 1x34 g a.s./ha, BBCH 12, annual** | | Initial | 0.028 | 0.038 | 0.053 | 0.034 | | 21-d TWA | 0.017 | 0.023 | 0.032 | 0.020 |   \* note that annual application has been assumed in calculations as representing worst case and covering the intended use pattern |

#### PECsoil of ADM.00150.I.2.A / LEAXO

Table 8.7‑93: PECsoil for ADM.00150.I.2.A / LEAXO on various crops

| Crop | Application rate a) | Interception (%) b) | PECact (mg/kg) |
| --- | --- | --- | --- |
| Corn | 0.3 L/ha = 0.341 kg/ha | 75 | 0.114 |
| Apple | 0.125 L/ha = 0.142 kg/ha | 60 | 0.076 |
| 0.3 L/ha = 0.341 kg/ha ~~0.4 L/ha = 0.454 kg/ha~~ | 65 | 0.159  ~~0.212~~ |
| Potato | 0.18 L/ha = 0.204 kg/ha | 15 | 0.232 |
| Spring cereals | 0.175 L/ha = 0.199 kg/ha | 0 | 0.265 |
| Winter cereals | 0.15 L/ha = 0.170 kg/ha | 0 | 0.227 |
| 0.18 L/ha = 0.204 kg/ha | 90 | 0.027 |
| Winter and spring oilseed rape  Winter oilseed rape | 0.3 L/ha = 0.341 kg/ha  0.240 L/ha = 0.273 kg/ha | 40 | 0.273  0.218 |
| Sugar beet | 0.25 L/ha = 0.284 kg/ha | 20 | 0.303 |
| Flower bulbs, flower tubers, floriculture, tree nursery and perennial nursery crops | 0.17 L/ha = 0.193 kg/ha | 10 | 0.232 |
| 0.23 L/ha = 0.261 kg/ha | 10 | 0.314 |

a) The application rate of the formulation was calculated based on a product density of 1.1361 g/mL and the maximum single application rate for each crop.

b) For each use pattern, the minimal relevant crop interception was considered in the PECsoil calculations.

|  |
| --- |
| **zRMS comments:**  Soil exposure for the formulated product for the various crops were recalculated by the zRMS and the same PECsoil were obtained, for this reason PECsoil as reported in table above are considered relevant for the soil risk assessment. Some minor changes were introduced to the Table 8.7-93. |

## Predicted Environmental Concentrations in groundwater (PECgw) (KCP 9.2.4)

### Justification for new endpoints

For estimation of the PEC in groundwater (PECgw) of acetamiprid and its metabolites, no new endpoints were defined. PECgw have been assessed with FOCUS groundwater models and the endpoints as proposed in the EFSA conclusion of acetamiprid (**EFSA Journal 2016;14(11):4610**).

### Active substance and relevant metabolites (KCP 9.2.4.1)

The use patterns and risk envelopes used for the calculations are presented in the table below. Please note: Since the Tier 2 calculations were not accepted by the zRMS, several use patterns had to be modified to obtain Tier 2 PECgw < 0.1 µg/L. However, this was only done if the FOCUS scenarios showing exceedance of 0.1 µg/L is relevant for the country for which the use is intended. The following scenarios are considered relevant for the respective country:

* Central European Zone in general: Châteaudun, Hamburg, Kremsmünster, Okehampton, Piacenza and Porto
* Czech Republic: Hamburg, Kremsmünster
* Germany: Hamburg
* Hungary: Châteaudun, Hamburg, Kremsmünster, Okehampton, Piacenza
* Netherlands: Kremsmünster. Please note: Uses only intended for the Netherlands were not modified since the Netherlands have their own specific PECgw calculations presented in the national addendum.
* Poland: Châteaudun, Hamburg, Kremsmünster
* Slovakia: Châteaudun, Hamburg, Kremsmünster
* Slovenia: Châteaudun, Hamburg, Kremsmünster, Okehampton

Table 8.8‑1: Input parameters related to application for PECgw calculations

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Use No. | 1-3 | 4, 6, 9, 11, 13, 15 | 5, 7, 8, 10, 12, 14, 16 | 17-22 | 23, 25, 27, 29, 30 | ~~24~~ | 26 f), ~~28, 31~~ | 24, 28, 31 |
| Crop in GAP | Corn | Apple | Apple | Potato | Spring wheat, spring barley, spring oats, spring durum wheat, spring triticale | ~~Spring wheat, spring barley, spring oats, spring durum wheat, spring triticale~~ | Spring wheat, spring barley, spring oats, spring triticale | Spring wheat, spring barley, spring oats, spring triticale |
| FOCUSgw Crop | Maize | Pome fruit (MACRO), apples (PEARL, PELMO) | Pome fruit (MACRO), apples (PEARL, PELMO) | Potato | Spring cereals (winter cereals) e) | ~~Spring cereals (winter cereals)~~ ~~e)~~ | Spring cereals (winter cereals) e) | Spring cereals (winter cereals) e) |
| BBCH | 51-75 | 71-PHI a) | 62-PHI a) | 12-79 | 40-69 | ~~12-69~~ | 12-29  40-69  ~~12-69~~ | 20-29  ~~20-69~~ |
| Application rate (g a.s./ha) | 60 | ~~80~~ 60 | 25 | 36 | 35 | ~~35~~ | 35 | 35 |
| Number of applications / interval (d) | 1 / 0 | 1 / 0 | 2 / 8 | 1 / 0 | 2 / 10 | ~~2 / 30~~ | 2 / 30 | 1 / - |
| Crop inter­ception (%) | 75 | 65 | 60 / 65 d) | 15 / 85 (BBCH 12 / 79) | 90 | ~~1~~~~st~~ ~~appl.: 0 2~~~~nd~~ ~~appl.: 90~~ ~~b)~~ | 1st appl.: 0 2nd appl.: 90 b) | 20 |
| Soil load rate (g a.s./ha) | 15 | ~~28~~ 21 | 10 / 8.75 d) | 30.6 / 5.4 (BBCH 12 / 79) | 3.5 | ~~1~~~~st~~ ~~appl.: 35 2~~~~nd~~ ~~appl.: 3.5~~ ~~b)~~ | 1st appl.: 35 2nd appl.: 3.5 b) | 28 |
| Frequency of application | annual | annual | annual | annual | annual | ~~biennial~~ | annual | annual |
| Application type | To the soil surface | | | | | | | |
| Models used for calculation | FOCUS PEARL v5.5.5, FOCUS PELMO v6.6.4, FOCUS MACRO v5.5.4 | | | | | | | |
| **Agricultural use pattern of acetamiprid continued** | | | | | | | | |
| Use No. | 32, 34, 36, 39 | 33, 35, 37, 38~~, 40~~ | 40 | 41-43, 46-51, 53-58, 62-64, 66-79 | 44, 45c), 52, 59, 60c), 61, 65 | ~~80,~~ 81a, 82, 83a, ~~84~~ | 80, 81b, 83b, 84 | 85 f) |
| Crop in GAP | Winter wheat, wi­nter barley, winter rye, winter triti­cale, winter oat, spelt | Winter wheat, win­ter barley, winter rye, winter triti­cale, winter oat, spelt | Winter wheat, win­ter barley, winter rye, winter triti­cale | Winter oilseed rape and spring oilseed rape | Winter oilseed rape | Sugar beet | Sugar beet | Flower bulbs and flower tubers |
| FOCUSgw Crop | Winter cereals | Winter cereals | Winter cereals | Oilseed rape winter, oilseed rape spring | Oilseed rape winter | Sugar beet | Sugar beet | Onions (potato) e) |
| BBCH | 40-69 (spring) | 12-29 (autumn) | 12-29 (autumn) | 31-71 | 11-19 | 12-39 | 12-39 | 12-91 |
| Application rate (g a.s./ha) | 36 | 30 | 29 | 60 | ~~60~~  48 c) | 50 | 50 | 46 |
| Number of applications / interval (d) | 2 / 10 | 1 / 0 | 1 / 0 | 2 / 7 | 1 / 0 | 2 / 7 | 1 / - | 1 / 0 |
| Crop inter­ception (%) | 90 | 0 | 0 | 80 | 40 | 20 | 20 | 10 |
| Soil load rate (g a.s./ha) | 3.6 | 30 | 29 | 12 | ~~36~~  28.8 | 40 | 40 | 41.4 |
| Frequency of application | annual | annual | annual | annual | ~~biennial~~  annual | triennial | biennial | annual |
| Application type | To the soil surface | | | | | | | |
| Models used for calculation | FOCUS PEARL v5.5.5, FOCUS PELMO v6.6.4, FOCUS MACRO v5.5.4 | | | | | | | |
| **Agricultural use pattern of acetamiprid continued** | | | | | | | | |
| Use No. | 86 f) | 87 | 88 f) | 89 f) | 90 | 88 f) | 89 f), ~~90~~ | 90 |
| Crop | Flower bulbs and flower tubers | Flower bulbs and flower tubers | Floricul­ture, perennial nursery crops | Floricul­ture, perennial nursery crops | Floricul­ture, perennial nursery crops | Tree nursery | Tree nursery | Tree nursery |
| FOCUSgw Crop | Onions (potato) e) | Onions (potato) e) | Cabbage (potato) e) | Cabbage (potato) e) | Cabbage (potato) e) | Pome fruit (MACRO), apples (PEARL, PELMO) | Pome fruit (MACRO), apples (PEARL, PELMO) | Pome fruit (MACRO), apples (PEARL, PELMO) |
| BBCH | 20-91 | 12-91 | 12-91 | 12-91 | 12-91 | 12-91 | 12-91 | 12-91 |
| Application rate (g a.s./ha) | 34 | 34 | 46 | 34 | 34 | 46 | 34 | 34 |
| Number of applications / interval (d) | 2 / 7 | ~~2 / 7~~  1 / - | 1 / 0 | 2 / 7 | ~~2 / 7~~  1 / - | 1 / 0 | 2 / 7 | 1 / - |
| Crop interception (%) | 25 | 10 | 25 | 25 | 25 | 60 | 60 | 60 |
| Soil load rate (g a.s./ha) | 25.5 | 30.6 | 34.5 | 25.5 | 25.5 | 18.4 | 13.6 | 13.6 |
| Frequency of application | annual | ~~biennial~~  annual | annual | annual | ~~biennial~~  annual | annual | annual | annual |
| Application type | To the soil surface | | | | | | | |
| Models used for calculation | FOCUS PEARL v5.5.5, FOCUS PELMO v6.6.4, FOCUS MACRO v5.5.4 | | | | | | | |

a) PHI = Pre-Havest Interval.

b) 1 application at BBCH 12-29 followed by 1 application at BBCH 40-69

c) Also covering lower application rates (application rate of 40 g a.s./ha for uses No. 45 and 60) based on a risk envelope.

d) Early appl. scenario from BBCH 62 onwards: 60% interception; late appl. scenario until PHI: 65% interception.

e) In brackets: Surrogate crop used for those FOCUS scenarios not defined for the main crop but relevant for the central zone.

f) NL specific use only, only presented in the core dossier for the sake of completeness.

Application dates for modelling were selected with AppDate v3.06 (see table below) based on the earliest possible BBCH stage. For potatoes, calculations were additionally done for the latest possible BBCH stage since the GAP foresees a very wide BBCH range.

The relevant scenarios for the central European zone are Châteaudun, Hamburg, Kremsmünster, Okehampton, Piacenza and Porto. Wherever one of these scenarios was not defined for the relevant crop, a surrogate crop was chosen for this scenario as requested by zRMS Poland. Application dates were determined with AppDate v3.06 based on this surrogate crop if possible. Interception values for the calculations were only selected based on the main crop, i.e., not based on the surrogate crop for individual scenarios.

Table 8.8‑2: Application dates used for groundwater risk assessment

| **Crop** | **Scenario** | **Application dates (absolute)** | |
| --- | --- | --- | --- |
| **1st application** | **2nd application** |
| Maize 1x60 g a.s./ha BBCH 51 | Châteaudun | 15-Jul (196)a) | - |
| Hamburg | 5-Jul | - |
| Kremsmünster | 5-Jul | - |
| Okehampton | 30-Jun | - |
| Piacenza | 8-Jul | - |
| Porto | 15-Jul | - |
| Sevilla | 16-May | - |
| Thiva | 30-May | - |
| Pome fruit ~~1x80 g a.s./ha~~ 1x60 g a.s./ha  BBCH 71 | Châteaudun | 6-Jun (157)a) | - |
| Hamburg | 7-Jul | - |
| Jokioinen | 1-Jun | - |
| Kremsmünster | 7-Jul | - |
| Okehampton | 20-Jun | - |
| Piacenza | 8-Jun | - |
| Porto | 6-Jul | - |
| Sevilla | 7-Jun | - |
| Thiva | 6-Jul | - |
| Pome fruit 2x25 g a.s./ha early application BBCH 62 | Châteaudun | 19-May (139)a) | 27-May (147)a) |
| Hamburg | 16-Jun | 24-Jun |
| Jokioinen | 22-May | 30-May |
| Kremsmünster | 16-Jun | 24-Jun |
| Okehampton | 30-May | 7-Jun |
| Piacenza | 19-May | 27-May |
| Porto | 9-Jun | 17-Jun |
| Sevilla | 16-May | 24-May |
| Thiva | 9-Jun | 17-Jun |
| Pome fruit 2x25 g a.s./ha late application pre-harvest | Châteaudun | 9-Sep (252)a) | 17-Sep (260)a) |
| Hamburg | 8-Oct | 16-Oct |
| Jokioinen | 23-Sep | 1-Oct |
| Kremsmünster | 8-Oct | 16-Oct |
| Okehampton | 24-Aug | 1-Sep |
| Piacenza | 10-Oct | 18-Oct |
| Porto | 9-Oct | 17-Oct |
| Sevilla | 23-Sep | 1-Oct |
| Thiva | 28-Sep | 6-Oct |
| Potato 1x36 g a.s./ha BBCH 12 | Châteaudun | 3-May (123)a) | - |
| Hamburg | 15-May | - |
| Jokioinen | 10-Jun | - |
| Kremsmünster | 15-May | - |
| Okehampton | 5-May | - |
| Piacenza | 23-Apr | - |
| Porto | 20-Mar | - |
| Sevilla | 4-Feb | - |
| Thiva | 5-Mar | - |
| Potato 1x36 g a.s./ha BBCH 79 | Châteaudun | 3-Aug (215)a) | - |
| Hamburg | 25-Aug | - |
| Jokioinen | 15-Sep | - |
| Kremsmünster | 25-Aug | - |
| Okehampton | 14-Aug | - |
| Piacenza | 04-Aug | - |
| Porto | 09-Jun | - |
| Sevilla | 09-May | - |
| Thiva | 27-Jun | - |
| Spring cereals  (winter cereals as surrogate for Piac.) 2x35 g a.s./ha BBCH 40 b) | Châteaudun | 6-May (126)a) | 16-May (136)a) |
| Hamburg | 12-May | 22-May |
| Jokioinen | 14-Jun | 24-Jun |
| Kremsmünster | 11-May | 21-May |
| Okehampton | 3-May | 13-May |
| Piacenca (winter cereals) | 07-Apr | 17-Apr |
| Porto | 6-May | 16-May |
| Spring cereals  (winter cereals as surrogate for Piac.) 2x35 g a.s./ha 1st appl.: BBCH 12 2nd appl.: BBCH 40 b) | Châteaudun | 15-Mar (74)a) | 6-May (126)a) |
| Hamburg | 5-Apr | 12-May |
| Jokioinen | 21-May | 14-Jun |
| Kremsmünster | 5-Apr | 11-May |
| Okehampton | 4-Apr | 3-May |
| Piacenca | 15-Mar d) | 07-Apr |
| Porto | 15-Mar | 6-May |
| Spring cereals  (winter cereals as surrogate for Piac.) 1x35 g a.s./ha BBCH 20 | Châteaudun | 29-Mar (88)a) | - |
| Hamburg | 15-Apr | - |
| Jokioinen | 27-May | - |
| Kremsmünster | 15-Apr | - |
| Okehampton | 12-Apr | - |
| Piacenca | 29-Mar d) | - |
| Porto | 29-Mar | - |
| Winter cereals 2x36 g a.s./ha BBCH 40 b) | Châteaudun | 2-May (122)a) | 12-May (132)a) |
| Hamburg | 14-May | 24-May |
| Jokioinen | 29-May | 8-Jun |
| Kremsmünster | 9-May | 19-May |
| Okehampton | 30-Apr | 10-May |
| Piacenza | 7-Apr | 17-Apr |
| Porto | 4-Mar | 14-Mar |
| Sevilla | 25-Jan | 4-Feb |
| Thiva | 13-Feb | 23-Feb |
| Winter cereals 1x30 g a.s./ha or  1x29 g a.s./ha BBCH 12 | Châteaudun | 30-Oct (303)a) | - |
| Hamburg | 5-Nov | - |
| Jokioinen | 24-Sep | - |
| Kremsmünster | 9-Nov | - |
| Okehampton | 21-Oct | - |
| Piacenza | 5-Dec | - |
| Porto | 7-Dec | - |
| Sevilla | 5-Dec | - |
| Thiva | 6-Dec | - |
| Oilseed rape (winter) 2x60 g a.s./ha BBCH 31 | Châteaudun | 13-Mar (72)a) | 20-Mar (79)a) |
| Hamburg | 19-Apr | 26-Apr |
| Kremsmünster | 16-Apr | 23-Apr |
| Okehampton | 10-Apr | 17-Apr |
| Piacenza | 9-Mar | 16-Mar |
| Porto | 4-Jan | 11-Jan |
| Oilseed rape (spring)  (Oilseed rape, winter as surrogate for Chât., Hamb, Krems., Piac.) 2x60 g a.s./ha BBCH 31 | Châteaudun | 13-Mar (72)a) | 20-Mar (79)a) |
| Hamburg | 19-Apr | 26-Apr |
| Jokioinen | 14-Jun | 21-Jun |
| Kremsmünster | 16-Apr | 23-Apr |
| Okehampton | 24-Apr | 1-May |
| Piacenza | 09-Mar | 16-Mar |
| Porto | 28-Apr | 5-May |
| Oilseed rape (winter) ~~1x60 g a.s./ha~~ 1x48 g a.s./ha BBCH 11 | Châteaudun | 9-Sep (252)a) | - |
| Hamburg | 4-Sep | - |
| Kremsmünster | 4-Sep | - |
| Okehampton | 16-Aug | - |
| Piacenza | 7-Oct | - |
| Porto | 14-Sep | - |
| Sugar beet 2x50 g a.s./ha  BBCH 12 | Châteaudun | 26-Apr (116)a) | 3-May (123)a) |
| Hamburg | 30-Apr | 7-May |
| Jokioinen | 3-Jun | 10-Jun |
| Kremsmünster | 30-Apr | 7-May |
| Okehampton | 9-May | 16-May |
| Piacenza | 2-Apr | 9-Apr |
| Porto | 21-Mar | 28-Mar |
| Sevilla | 27-Nov | 4-Dec |
| Thiva | 8-May | 15-May |
| Sugar beet 1x50 g a.s./ha BBCH 12 | Châteaudun | 26-Apr (116)a) | - |
| Hamburg | 30-Apr | - |
| Jokioinen | 3-Jun | - |
| Kremsmünster | 30-Apr | - |
| Okehampton | 9-May | - |
| Piacenza | 2-Apr | - |
| Porto | 21-Mar | - |
| Sevilla | 27-Nov | - |
| Thiva | 8-May | - |
| Onions / potatoes (flower bulbs and flower tubers) 1x46 g a.s./ha BBCH 12 | Châteaudun | 9-May (129)a) | - |
| Hamburg | 9-May | - |
| Jokioinen | 28-May | - |
| Kremsmünster | 9-May | - |
| Okehampton (potatoes) | 05-May | - |
| Piacenza (potatoes) | 23-Apr | - |
| Porto | 16-Mar | - |
| Thiva | 24-Apr | - |
| Onions / potatoes (flower bulbs and flower tubers) 2x34 g a.s./ha BBCH 20 c) | Châteaudun | 24-Jun (175)a) | 1-Jul (182)a) |
| Hamburg | 24-Jun | 1-Jul |
| Jokioinen | 22-Jun | 29-Jun |
| Kremsmünster | 24-Jun | 1-Jul |
| Okehampton (potatoes) | 18-May | 25-May |
| Piacenza (potatoes) | 30-Apr | 07-May |
| Porto | 8-May | 15-May |
| Sevilla | - | - |
| Thiva | 9-Jun | 16-Jun |
| Onions / potatoes (flower bulbs and flower tubers) ~~2x34 g a.s./ha~~  1x34 g a.s./ha BBCH 12 | Châteaudun | 9-May (129)a) | ~~16-May (136)~~~~a)~~ |
| Hamburg | 9-May | ~~16-May~~ |
| Jokioinen | 28-May | ~~4-Jun~~ |
| Kremsmünster | 9-May | ~~16-May~~ |
| Okehampton (potatoes) | 05-May | ~~12-May~~ |
| Piacenza (potatoes) | 23-Apr | ~~30-Apr~~ |
| Porto | 16-Mar | ~~23-Mar~~ |
| Thiva | 24-Apr | ~~1-May~~ |
| Cabbage (1st) / potatoes (floriculture & perennial nursery crops) 1x46 g a.s./ha BBCH 12 | Châteaudun | 29-Apr (119)a) | - |
| Hamburg | 29-Apr | - |
| Jokioinen | 11-Jun | - |
| Kremsmünster | 29-Apr | - |
| Okehampton (potatoes) | 05-May |  |
| Piacenza (potatoes) | 23-Apr | - |
| Porto | 16-Mar | - |
| Sevilla | 14-Mar | - |
| Thiva | 25-Aug | - |
| Cabbage (1st) / potatoes (floriculture & perennial nursery crops) 2x34 g a.s./ha  BBCH 12 | Châteaudun | 29-Apr (119)a) | 6-May (126)a) |
| Hamburg | 29-Apr | 6-May |
| Jokioinen | 11-Jun | 18-Jun |
| Kremsmünster | 29-Apr | 6-May |
| Okehampton (potatoes) | 05-May | 12-May |
| Piacenza (potatoes) | 23-Apr | 30-Apr |
| Porto | 16-Mar | 23-Mar |
| Sevilla | 14-Mar | 21-Mar |
| Thiva | 25-Aug | 1-Sep |
| Cabbage (1st) / potatoes (floriculture & perennial nursery crops) 1x34 g a.s./ha BBCH 12 | Châteaudun | 29-Apr (119)a) | - |
| Hamburg | 29-Apr | - |
| Jokioinen | 11-Jun | - |
| Kremsmünster | 29-Apr | - |
| Okehampton (potatoes) | 05-May | - |
| Piacenza (potatoes) | 23-Apr | - |
| Porto | 16-Mar | - |
| Sevilla | 14-Mar | - |
| Thiva | 25-Aug | - |
| Pome fruit (tree nursery) 1x46 g a.s./ha BBCH 12 | Châteaudun | 3-Apr (93)a) | - |
| Hamburg | 18-Apr | - |
| Jokioinen | 11-May | - |
| Kremsmünster | 18-Apr | - |
| Okehampton | 28-Mar | - |
| Piacenza | 3-Apr | - |
| Porto | 19-Mar | - |
| Sevilla | 18-Mar | - |
| Thiva | 19-Mar | - |
| Pome fruit (tree nursery) 2x34 g a.s./ha  BBCH 12 | Châteaudun | 3-Apr (93)a) | 10-Apr (100)a) |
| Hamburg | 18-Apr | 25-Apr |
| Jokioinen | 11-May | 18-May |
| Kremsmünster | 18-Apr | 25-Apr |
| Okehampton | 28-Mar | 4-Apr |
| Piacenza | 3-Apr | 10-Apr |
| Porto | 19-Mar | 26-Mar |
| Sevilla | 18-Mar | 25-Mar |
| Thiva | 19-Mar | 26-Mar |
| Pome fruit (tree nursery) 1x34 g a.s./ha BBCH 12 | Châteaudun | 3-Apr (93)a) | - |
| Hamburg | 18-Apr | - |
| Jokioinen | 11-May | - |
| Kremsmünster | 18-Apr | - |
| Okehampton | 28-Mar | - |
| Piacenza | 3-Apr | - |
| Porto | 19-Mar | - |
| Sevilla | 18-Mar | - |
| Thiva | 19-Mar | - |

a) Julian day as input for MACRO.

b) For spring and winter cereals, the date at BBCH 41 was set as date of the 1st application since BBCH 40 is not defined in AppDate (v3.06).

c) For onions at BBCH 20, the date at BBCH 19 was set as date of the 1st application since in AppDate (v3.06) onions are only defined until BBCH 19 and from BBCH 41 onwards.

d) The application date was set to the date of Porto as determined with AppDate for spring cereals. The AppDate date for winter cereals at BBCH 12 or 20 would be in autumn and thus does not fit to the intended spring application.

|  |
| --- |
| **zRMS comments:**  The application pattern presented in Table 8.8-1 assumed in simulations is in general in line with the critical Central Zone GAP presented in Table 8.1-1, with following exception and remarks:   * For application to spring cereals for uses No. 24, 28, 31 single annual application rate of 35 g a.s./ha and at BBCH stage of 20-29 is presented in the GAP table, thus respective changes were introduced to the Table 8.8-1. * For application to spring cereals for use No. 26 double application rate (2 x 35 g a.s./ha) with 1st application at BBCH stage of 12-29 and 2nd application at BBCH stage of 40-69 is presented in the GAP table, thus respective changes were introduced to the Table 8.8-1. * For application to winter oilseed rape (uses No. 45 and 60) lower application rate of 40 g a.s./ha is presented in the GAP table. Since calculations were performed for higher application rate (1 x 48 g a.s./ha) thus, it covers rate of 40 g a.s./ha and additional calculations are not necessary.   Crop interception assumed for all crops corresponds with BBCH stages at which product is intended to be applied. Absolute application dates presented in Table 8.8-2 were checked by the zRMS using AppDate ver. 3.06 tool and are considered acceptable.  Since not all relevant to the central zone scenarios are defined for the evaluated crops, the following surrogate crops were considered by the Applicant in simulations:   1. Winter cereals was used as a surrogate crop for spring cereals for missing scenario Piacenza 2. Winter oilseed rape was used as a surrogate crop for spring oilseed rape for missing scenarios Châteaudun, Hamburg, Kremsmünster and Piacenza 3. Onions and potatoes were used as surrogate crop for flower bulbs and flower tubers for all relevant scenarios to the central zone. 4. Cabbage and potatoes were used as surrogate crop for floriculture & perennial nursery crops for all relevant scenarios to the Central Zone. |

#### Acetamiprid and its metabolites

Table 8.8‑3: Input parameters related to active substance acetamiprid and its relevant metabolites for PECgw calculations

| Compound | Acetamiprid | IM-1-2 | IM-1-4 | IC-0 | IM-1-5 | Value in accordance with EU endpoint / Reference |
| --- | --- | --- | --- | --- | --- | --- |
| Molecular weight (g/mol) | 222.68 | 240.69 | 156.61 | 157.55 | 197.66 | Yes / EFSA, 2016 |
| Water solubility (g/mol) | 2950 (pH 7 and 25°C) | 1 x 106 (pH 7 and 25°C) | 1 x 106 (pH 7 and 25°C) | 1 x 106 (pH 7 and 25°C) | 1 x 106 (pH 7 and 25°C) | Yes / EFSA, 2016 |
| Saturated vapour pressure (Pa) | 1 x 10-6 (20°C) | 1 x 10-8 (20°C) | 1 x 10-8 (20°C) | 1 x 10-8 (20°C) | 1 x 10-8 (20°C) | Yes / EFSA, 2016 |
| DT50 in soil (d) | 1.45  (geometric mean, lab, n = 7, normalised to pF2, 20°C, Q10 of 2.58) | 1.7  (geometric mean, lab, n = 3, normalised to pF2, 20°C, Q10 of 2.58) | 14.6  (geometric mean, lab, n = 7, normalised to pF2, 20°C, Q10 of 2.58) | 2.7  (geometric mean, lab, n = 7, normalised to pF2, 20°C, Q10 of 2.58) | 495  (geometric mean, lab, n = 7, normalised to pF2, 20°C, Q10 of 2.58) | Yes / EFSA, 2016 |
| Kfoc / Kfom a) (mL/g) | 106.5 / 61.8 (arithmetic mean, n = 5) | 54 / 31.3  (arithmetic mean, n = 4) | 171 / 99.2  (arithmetic mean, n = 4) | 122 / 70.8  (arithmetic mean, n = 5) | 325 / 189  (arithmetic mean, n = 4) | Yes / EFSA, 2016 |
| 1/n | 0.860  (arithmetic mean, n = 5) | 0.903  (arithmetic mean, n = 4) | 0.764  (arithmetic mean, n = 4) | 0.953  (arithmetic mean, n = 5) | 0.886  (arithmetic mean, n = 4) | Yes / EFSA, 2016 |
| Plant uptake factor | 0 | 0 | 0 | 0 | Tier 1: 0 Tier 2: 0.5 | Yes / EFSA, 2016 |
| Formation fraction | - | 0.77  (from parent) | 0.72  (from IM-1-2) | 0.67  (from IM-1-4) | 0.15  (from parent) | Yes / EFSA, 2016 |
| Conversion factor for MACRO | - | 0.832 | 0.390 | 0.263 | 0.133 | Calculated b) |

a) Calculated with Kfom = Kfoc / 1.724.

b) Calculated as: Formation fraction x MolarMassMetabolite / MolarMassParent

Since MACRO can only handle one metabolite, it was assumed that all metabolites are directly formed from the parent.

Table 8.8‑4: PECGW for acetamiprid and its metabolites IM-1-2, IM-1-4, IC-0 and IM-1-5 following application of acetamiprid on various crops (with FOCUS PEARL v5.5.5)

| FOCUS PEARL | | 80th percentile PECGW at 1 m soil depth (μg/L) \* | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Application pattern | Scenario | Acetamiprid | IM-1-2 | IM-1-4 | | IC-0 | IM-1-5 (Tier 1) | IM-1-5 (Tier 2) |
| Use no. 1-3:  Maize 1x60 g a.s./ha BBCH 51  (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.021 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.036 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.026 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.041 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.036 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.019 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.015 | - a) |
| ~~Use no. 4, 6, 9, 11, 13, 15:~~  ~~Pome fruit 1x80 g a.s./ha BBCH 71~~  ~~(annual)~~ | ~~Châteaudun~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | **~~0.136~~** | ~~0.080~~ |
| ~~Hamburg~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | **~~0.137~~** | ~~0.088~~ |
| ~~Jokioinen~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ |
| ~~Kremsmünster~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.091~~ | ~~0.062~~ |
| ~~Okehampton~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.099~~ | ~~0.077~~ |
| ~~Piacenza~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | **~~0.129~~** | ~~0.068~~ |
| ~~Porto~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.058~~ | ~~0.044~~ |
| ~~Sevilla~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | **~~0.114~~** | ~~0.052~~ |
| ~~Thiva~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | **~~0.163~~** | ~~0.075~~ |
| Use no. 4, 6, 9, 11, 13, 15:  Pome fruit 1x60 g a.s./ha BBCH 71 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.093 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.094 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.062 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.069 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.089 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.040 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.078 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.113** | - a) |
| Use no. 5, 7, 8, 10, 12, 14, 16:  Pome fruit 2x25 g a.s./ha early application BBCH 62 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.087 | 0.051 |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.088 | 0.057 |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | < 0.001 |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.058 | 0.040 |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.064 | 0.050 |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.082 | 0.044 |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.036 | 0.028 |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.073 | 0.033 |
| Thiva | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.104** | 0.048 |
| Use no. 5, 7, 8, 10, 12, 14, 16:  Pome fruit 2x25 g a.s./ha late application pre-harvest  (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.074 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.076 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.048 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.057 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.075 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.033 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.060 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.091 | - a) |
| Use no. 17-22:  Potato 1x36 g a.s./ha BBCH 12 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.040 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.070 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.056 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.084 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.065 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.038 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.002 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.021 | - a) |
| Use no. 17-22:  Potato 1x36 g a.s./ha BBCH 79 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.002 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.006 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.004 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.008 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.007 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.003 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.001 | - a) |
| Use no. 23, 25, 27, 29, 30:  Spring cereals  (Winter cereals as surrogate for Piac.) 2x35 g a.s./ha BBCH 40 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.014 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.009 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.013 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.009 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.006 | - a) |
| Use no. 26\*:  Spring cereals (Winter cereals as surrogate for Piac.) 2x35 g a.s./ha 1st appl.: BBCH 12 2nd appl.: BBCH 40 (annual)  *\* NL specific use only* | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.018 | 0.014 |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.151** | **0.106** |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | < 0.001 |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.104** | 0.076 |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.130** | **0.102** |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.090 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.064 | 0.052 |
| ~~Spring cereals (Winter cereals as surrogate for Piacenza) 2x35 g a.s./ha 1~~~~st~~ ~~appl.: BBCH 12 2~~~~nd~~ ~~appl.: BBCH 40 (biennial)~~ | ~~Châteaudun~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.014~~ | ~~0.011~~ |
| ~~Hamburg~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.074~~ | ~~0.053~~ |
| ~~Jokioinen~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.010~~ | ~~0.008~~ |
| ~~Kremsmünster~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.049~~ | ~~0.036~~ |
| ~~Okehampton~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.058~~ | ~~0.045~~ |
| ~~Piacenza~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.040~~ | ~~-~~ ~~a)~~ |
| ~~Porto~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.028~~ | ~~0.023~~ |
| Use no. 24, 28, 31:  Spring cereals (Winter cereals as surrogate for Piacenza) 1x35 g a.s./ha BBCH 20 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.009 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.098 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.068 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.086 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.059 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.041 | - a) |
| Use no. 32, 34, 36, 39:  Winter cereals 2x36 g a.s./ha BBCH 40 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.001 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.013 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.010 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.016 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.010 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.007 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | - a) |
| Use no. 33, 35, 37, 38:  Winter cereals 1x30 g a.s./ha BBCH 12 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.017 | 0.013 |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.099 | 0.076 |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | < 0.001 |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.072 | 0.055 |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.103** | 0.082 |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.070 | 0.053 |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.056 | 0.045 |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | < 0.001 |
| Thiva | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.002 | 0.001 |
| Use no. 40:  Winter cereals 1x29 g a.s./ha BBCH 12 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.016 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.095 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.069 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.099 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.067 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.053 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.002 | - a) |
| Use no. 41-43, 46-51, 53-58, 62-64:  Oilseed rape (winter) 2x60 g a.s./ha BBCH 31 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.021 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.076 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.055 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.070 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.037 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.042 | - a) |
| ~~Oilseed rape (winter) 1x60 g a.s./ha BBCH 11 (biennial)~~ | ~~Châteaudun~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.027~~ | ~~-~~ ~~a)~~ |
| ~~Hamburg~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.064~~ | ~~-~~ ~~a)~~ |
| ~~Kremsmünster~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.044~~ | ~~-~~ ~~a)~~ |
| ~~Okehampton~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.053~~ | ~~-~~ ~~a)~~ |
| ~~Piacenza~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.030~~ | ~~-~~ ~~a)~~ |
| ~~Porto~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.033~~ | ~~-~~ ~~a)~~ |
| Use no. 44, 45, 52, 59, 60, 61, 65:  Oilseed rape (winter) 1x48 g a.s./ha BBCH 11 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.030 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.099 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.071 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.091 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.051 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.056 | - a) |
| Use no. 66-79:  Oilseed rape (spring)  (oilseed rape, winter as surrogate for Chât., Hamb., Krems., Piac.) 2x60 g a.s./ha BBCH 31 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.021 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.076 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.055 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.065 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.037 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.035 | - a) |
| Use no. 81a, 82, 83a:  Sugar beet 2x50 g a.s./ha BBCH 12 (triennial) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.115** | 0.079 |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.098 | 0.072 |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.034 | 0.026 |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.071 | 0.055 |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.077 | 0.064 |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.071 | 0.052 |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.052 | 0.041 |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.011 | 0.006 |
| Thiva | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.067 | 0.031 |
| Use no. 80, 81b, 83b, 84:  Sugar beet 1x50 g a.s./ha BBCH 12 (biennial) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.079 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.065 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.012 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.045 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.053 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.048 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.035 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.007 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.038 | - a) |
| Use no. 85\*:  Onions (flower bulbs and flower tubers)  (potatoes as surrogate for Okeh., Piac.) 1x46 g a.s./ha BBCH 12 (annual)  *\* NL specific use only* | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.040 | 0.032 |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.107** | 0.090 |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | < 0.001 |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.080 | 0.068 |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.123** | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.097 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.052 | 0.048 |
| Thiva | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.022 | 0.017 |
| Use no. 86\*:  Onions (flower bulbs and flower tubers) (potatoes as surrogate for Okeh., Piac.) 2x34 g a.s./ha BBCH 20 (annual)  *\* NL specific use only* | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.054 | 0.043 |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.143** | **0.120** |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | < 0.001 |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.105** | 0.091 |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.161** | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.127** | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.067 | 0.063 |
| Thiva | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.029 | 0.023 |
| Use ~~no. 86\*:~~  ~~Onions (flower bulbs and flower tubers) (potatoes as surrogate for Okeh., Piac.) 2x34 g a.s./ha BBCH 20 (biennial)~~  *~~\* NL specific use only~~* | Châteaudun | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.032~~ | ~~0.025~~ |
| Hamburg | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.072~~ | ~~0.060~~ |
| Jokioinen | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.010~~ | ~~0.009~~ |
| Kremsmünster | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.051~~ | ~~0.043~~ |
| Okehampton | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.071~~ | ~~-~~ ~~a)~~ |
| Piacenza | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.057~~ | ~~-~~ ~~a)~~ |
| Porto | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.028~~ | ~~0.026~~ |
| Thiva | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.011~~ | ~~0.009~~ |
| ~~Use no. 87:~~  ~~Onions (flower bulbs and flower tubers) (potatoes as surrogate for Okeh., Piac.) 2x34 g a.s./ha BBCH 12 (biennial)~~ | ~~Châteaudun~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.042~~ | ~~-~~ ~~a)~~ |
| ~~Hamburg~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.089~~ | ~~-~~ ~~a)~~ |
| ~~Jokioinen~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.014~~ | ~~-~~ ~~a)~~ |
| ~~Kremsmünster~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.064~~ | ~~-~~ ~~a)~~ |
| ~~Okehampton~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.089~~ | ~~-~~ ~~a)~~ |
| ~~Piacenza~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.073~~ | ~~-~~ ~~a)~~ |
| ~~Porto~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.037~~ | ~~-~~ ~~a)~~ |
| ~~Thiva~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.016~~ | ~~-~~ ~~a)~~ |
| Use no. 87:  Onions (flower bulbs and flower tubers) (potatoes as surrogate for Okeh., Piac.) 1x34 g a.s./ha BBCH 12 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.024 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.071 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.053 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.084 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.065 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.035 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.013 | - a) |
| Use no. 88\*:  Cabbage (1st) (floriculture & perennial nursery crops) (potatoes as surrogate for Okeh., Piac.) 1x46 g a.s./ha BBCH 12 (annual)  *\* NL specific use only* | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.048 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.088 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.063 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.098 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.077 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.054 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.002 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.027 | - a) |
| Use no. 89\*:  Cabbage (1st) (floriculture & perennial nursery crops) (potatoes as surrogate for Okeh., Piac.) 2x34 g a.s./ha BBCH 12 (annual)  *\* NL specific use only* | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.087 | 0.067 |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.148** | **0.120** |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | < 0.001 |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.107** | 0.089 |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.161** | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.127** | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.090 | 0.071 |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.005 | 0.003 |
| Thiva | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.048 | 0.039 |
| ~~Use no. 90~~:  ~~Cabbage (1~~~~st~~~~) (floriculture & perennial nursery crops) (potatoes as surrogate for Okeh., Piac.) 2x34 g a.s./ha BBCH 12 (biennial)~~ | ~~Châteaudun~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.043~~ | ~~0.033~~ |
| ~~Hamburg~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.074~~ | ~~0.060~~ |
| ~~Jokioinen~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.014~~ | ~~0.012~~ |
| ~~Kremsmünster~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.052~~ | ~~0.042~~ |
| ~~Okehampton~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.071~~ | ~~-~~ ~~a)~~ |
| ~~Piacenza~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.057~~ | ~~-~~ ~~a)~~ |
| ~~Porto~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.038~~ | ~~0.030~~ |
| ~~Sevilla~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.004~~ | ~~0.002~~ |
| ~~Thiva~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | | ~~< 0.001~~ | ~~0.019~~ | ~~0.015~~ |
| Use no. 90:  Cabbage (1st) (floriculture & perennial nursery crops) (potatoes as surrogate for Okeh., Piac.) 1x34 g a.s./ha BBCH 12 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.030 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.058 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.041 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.066 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.051 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.036 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.001 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.017 | - a) |
| Use no. 88\*:  Pome fruit  (tree nursery) 1x46 g a.s./ha BBCH 12 (annual)  *\* NL specific use only* | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.079 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.078 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.052 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.059 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.074 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.033 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.067 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.093 | - a) |
| Use no. 89\*:  Pome fruit  (tree nursery) 2x34 g a.s./ha BBCH 12 (annual)  *\* NL specific use only* | Châteaudun | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.133** | 0.078 |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.131** | 0.084 |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | < 0.001 | < 0.001 |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.087 | 0.059 |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.096 | 0.075 |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.123** | 0.064 |
| Porto | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | 0.054 | 0.041 |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.113** | 0.051 |
| Thiva | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | **0.154** | 0.070 |
| Use no. 90:  Pome fruit  (tree nursery) 1x34 g a.s./ha BBCH 12 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.052 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.053 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.034 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.040 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.049 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.022 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.045 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 0.062 | - a) |

\* Bold values are above 0.1 µg/L.

a) Not calculated.

Table 8.8‑5: PECgw for acetamiprid and its metabolites IM-1-2, IM-1-4, IC-0 and IM-1-5 following application of acetamiprid on various crops (with PELMO v6.6.4)

| FOCUS PELMO | | **80th percentile PECGW at 1 m soil depth (μg/L) \*** | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Application pattern** | **Scenario** | **Acetamiprid** | **IM-1-2** | **IM-1-4** | **IC-0** | **IM-1-5 (Tier 1)** | **IM-1-5 (Tier 2)** |
| Use no. 1-3:  Maize 1x60 g a.s./ha BBCH 51  (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.011 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.025 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.021 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.038 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.034 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.019 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.010 | - a) |
| ~~Use no. 4, 6, 9, 11, 13, 15:~~  ~~Pome fruit 1x80 g a.s./ha BBCH 71~~  ~~(annual)~~ | ~~Châteaudun~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | **~~0.128~~** | ~~0.073~~ |
| ~~Hamburg~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.099~~ | ~~0.064~~ |
| ~~Jokioinen~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ |
| ~~Kremsmünster~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.082~~ | ~~0.051~~ |
| ~~Okehampton~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | **~~0.116~~** | ~~0.082~~ |
| ~~Piacenza~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | **~~0.102~~** | ~~0.068~~ |
| ~~Porto~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.062~~ | ~~0.044~~ |
| ~~Sevilla~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.045~~ | ~~0.014~~ |
| ~~Thiva~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | **~~0.111~~** | ~~0.045~~ |
| Use no. 4, 6, 9, 11, 13, 15:  Pome fruit 1x60 g a.s./ha BBCH 71 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.087 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.065 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.054 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.081 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.071 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.043 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.028 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.074 | - a) |
| Use no. 5, 7, 8, 10, 12, 14, 16:  Pome fruit 2x25 g a.s./ha early application BBCH 62 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.082 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.061 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.051 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.076 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.067 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.041 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.026 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.070 | - a) |
| Use no. 5, 7, 8, 10, 12, 14, 16:  Pome fruit 2x25 g a.s./ha late application pre-harvest  (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.068 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.050 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.042 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.068 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.061 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.037 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.022 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.062 | - a) |
| Use no. 17-22:  Potato 1x36 g a.s./ha BBCH 12 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.026 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.054 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.048 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.086 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.063 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.050 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.020 | - a) |
| Use no. 17-22:  Potato 1x36 g a.s./ha BBCH 79 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.001 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.003 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.003 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.008 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.006 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.005 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.001 | - a) |
| Use no. 23, 25, 27, 29, 30:  Spring cereals  (Winter cereals as surrogate for Piac.) 2x35 g a.s./ha BBCH 40 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.007 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.006 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.013 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.009 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.007 | - a) |
| Use no. 26\*:  Spring cereals (Winter cereals as surrogate for Piac.) 2x35 g a.s./ha 1st appl.: BBCH 12 2nd appl.: BBCH 40 (annual)  *\* NL specific use only* | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.006 | 0.004 |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | **0.107** | 0.076 |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.086 | 0.061 |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | **0.125** | 0.097 |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.090 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.073 | 0.060 |
| ~~Spring cereals (Winter cereals as surrogate for Piac.)~~  ~~2x35 g a.s./ha 1~~~~st~~ ~~appl.: BBCH 12 2~~~~nd~~ ~~appl.: BBCH 40 (biennial)~~ | ~~Châteaudun~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.009~~ | ~~-~~ ~~a)~~ |
| ~~Hamburg~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.062~~ | ~~-~~ ~~a)~~ |
| ~~Jokioinen~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.009~~ | ~~-~~ ~~a)~~ |
| ~~Kremsmünster~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.043~~ | ~~-~~ ~~a)~~ |
| ~~Okehampton~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.054~~ | ~~-~~ ~~a)~~ |
| ~~Piacenza~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.041~~ | ~~-~~ ~~a)~~ |
| ~~Porto~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.031~~ | ~~-~~ ~~a)~~ |
| Use no. 24, 28, 31:  Spring cereals (Winter cereals as surrogate for Piacenza) 1x35 g a.s./ha BBCH 20 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.003 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.067 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.053 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.083 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.060 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.048 | - a) |
| Use no. 32, 34, 36, 39:  Winter cereals 2x36 g a.s./ha BBCH 40 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.007 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.007 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.014 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.009 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.008 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Use no. 33, 35, 37, 38:  Winter cereals 1x30 g a.s./ha BBCH 12 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | ~~0.008~~ 0.003 b) | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | ~~0.043~~ 0.073 b) | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | ~~0.032~~ 0.061 b) | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | ~~0.043~~ 0.098 b) | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | ~~0.031~~ 0.068 b) | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | ~~0.030~~ 0.066 b) | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Use no. 40:  Winter cereals 1x29 g a.s./ha BBCH 12 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.002 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.070 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | s- a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.058 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.094 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.065 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.064 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Use no. 41-43, 46-51, 53-58, 62-64:  Oilseed rape (winter) 2x60 g a.s./ha BBCH 31 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.002 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.053 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.046 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.072 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.039 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.055 | - a) |
| ~~Oilseed rape (winter) 1x60 g a.s./ha BBCH 11 (biennial)~~ | ~~Châteaudun~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.013~~ | ~~-~~ ~~a)~~ |
| ~~Hamburg~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.056~~ | ~~-~~ ~~a)~~ |
| ~~Kremsmünster~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.040~~ | ~~-~~ ~~a)~~ |
| ~~Okehampton~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.054~~ | ~~-~~ ~~a)~~ |
| ~~Piacenza~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.034~~ | ~~-~~ ~~a)~~ |
| ~~Porto~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.043~~ | ~~-~~ ~~a)~~ |
| Use no. 44, 45, 52, 59, 60, 61, 65:  Oilseed rape (winter) 1x48 g a.s./ha BBCH 11 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.004 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.072 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.060 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.093 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.054 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.071 | - a) |
| Use no. 66-79:  Oilseed rape (spring)  (oilseed rape, winter as surrogate for Chât., Hamb., Krems., Piac.) 2x60 g a.s./ha BBCH 31 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.002 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.053 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.046 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.069 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.039 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.042 | - a) |
| Use no. 81a, 82, 83a:  Sugar beet 2x50 g a.s./ha BBCH 12 (triennial) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.094 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.088 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.029 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.068 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.083 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.077 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.062 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.006 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.040 | - a) |
| Use no. 80, 81b, 83b, 84:  Sugar beet 1x50 g a.s./ha BBCH 12 (biennial) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.062 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.059 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.010 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.044 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.058 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.049 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.042 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.003 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.024 | - a) |
| Use no. 85\*:  Onions (flower bulbs and flower tubers)  (potatoes as surrogate for Okeh., Piac.) 1x46 g a.s./ha BBCH 12 (annual)  *\* NL specific use only* | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.028 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.089 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.072 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | **0.126** | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.093 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.069 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.018 | - a) |
| Use no. 86\*:  Onions (flower bulbs and flower tubers) (potatoes as surrogate for Okeh., Piac.) 2x34 g a.s./ha BBCH 20 (annual)  *\* NL specific use only* | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.039 | 0.027 |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | **0.122** | 0.097 |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.097 | 0.077 |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | **0.165** | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | **0.122** | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.088 | 0.081 |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.026 | 0.019 |
| ~~Use no. 87:~~  ~~Onions  (flower bulbs and flower tubers) (potatoes as surrogate for Okeh., Piac.) 2x34 g a.s./ha BBCH 12 (biennial)~~ | ~~Châteaudun~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.024~~ | ~~-~~ ~~a)~~ |
| ~~Hamburg~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.067~~ | ~~-~~ ~~a)~~ |
| ~~Jokioinen~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.011~~ | ~~-~~ ~~a)~~ |
| ~~Kremsmünster~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.052~~ | ~~-~~ ~~a)~~ |
| ~~Okehampton~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.090~~ | ~~-~~ ~~a)~~ |
| ~~Piacenza~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.067~~ | ~~-~~ ~~a)~~ |
| ~~Porto~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.044~~ | ~~-~~ ~~a)~~ |
| ~~Thiva~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.008~~ | ~~-~~ ~~a)~~ |
| Use no. 87:  Onions  (flower bulbs and flower tubers) (potatoes as surrogate for Okeh., Piac.) 1x34 g a.s./ha BBCH 12 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.016 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.057 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.048 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.086 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.063 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.047 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.011 | - a) |
| Use no. 88\*:  Cabbage (1st) (floriculture & perennial nursery crops) (potatoes as surrogate for Okeh., Piac.) 1x46 g a.s./ha BBCH 12 (annual)  *\* NL specific use only* | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.038 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.072 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.057 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.100 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.073 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.062 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.001 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.026 | - a) |
| Use no. 89\*:  Cabbage (1st) (floriculture & perennial nursery crops) (potatoes as surrogate for Okeh., Piac.) 2x34 g a.s./ha BBCH 12 (annual)  *\* NL specific use only* | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.072 | 0.049 |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | **0.128** | 0.095 |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.098 | 0.074 |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | **0.165** | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | **0.122** | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | **0.101** | 0.077 |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.003 | 0.001 |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.049 | 0.035 |
| ~~Use no. 90:~~  ~~Cabbage (1~~~~s~~~~t) (floriculture & perennial nursery crops) (potatoes as surrogate for Okeh., Piac.) 2x34 g a.s./ha BBCH 12 (biennial)~~ | ~~Châteaudun~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.038~~ | ~~-~~ ~~a)~~ |
| ~~Hamburg~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.077~~ | ~~-~~ ~~a)~~ |
| ~~Jokioinen~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.013~~ | ~~-~~ ~~a)~~ |
| ~~Kremsmünster~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.053~~ | ~~-~~ ~~a)~~ |
| ~~Okehampton~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.072~~ | ~~-~~ ~~a)~~ |
| ~~Piacenza~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.053~~ | ~~-~~ ~~a)~~ |
| ~~Porto~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.045~~ | ~~-~~ ~~a)~~ |
| ~~Sevilla~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.002~~ | ~~-~~ ~~a)~~ |
| ~~Thiva~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.018~~ | ~~-~~ ~~a)~~ |
| Use no. 90:  Cabbage (1st) (floriculture & perennial nursery crops) (potatoes as surrogate for Okeh., Piac.) 1x34 g a.s./ha BBCH 12  (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.023 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.046 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.036 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.086 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.063 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.042 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.001 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.016 | - a) |
| Use no. 88\*:  Pome fruit  (tree nursery) 1x46 g a.s./ha BBCH 12 (annual)  *\* NL specific use only* | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.075 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.053 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.045 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.070 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.061 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.037 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.025 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.065 | - a) |
| Use no. 89\*:  Pome fruit  (tree nursery) 2x34 g a.s./ha BBCH 12 (annual)  *\* NL specific use only* | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | **0.127** | 0.072 |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.094 | 0.060 |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.079 | 0.049 |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | **0.114** | 0.080 |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.099 | 0.066 |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.061 | 0.042 |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.048 | 0.015 |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | **0.114** | 0.045 |
| Use no. 90:  Pome fruit  (tree nursery) 1x34 g a.s./ha BBCH 12 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.049 | - a) |
| Hamburg | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.034 | - a) |
| Jokioinen | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | - a) |
| Kremsmünster | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.029 | - a) |
| Okehampton | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.048 | - a) |
| Piacenza | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.042 | - a) |
| Porto | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.025 | - a) |
| Sevilla | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.015 | - a) |
| Thiva | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.042 | - a) |

\* Bold values are above 0.1 µg/L.

a) Not calculated.

b) Error in original calculations corrected.

Table 8.8‑6: PECgw for acetamiprid and its metabolites IM-1-2, IM-1-4, IC-0 and IM-1-5 following application of acetamiprid on various crops calculated with MACRO v5.5.4, scenario Châteaudun

| **FOCUS MACRO** | | **80th percentile PECGW at 1 m soil depth (μg/L)** | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Application pattern** | **Scenario** | **Acetamiprid** | **IM-1-2** | **IM-1-4** | **IC-0** | **IM-1-5  (Tier 1)** |
| Use no. 1: Maize 1x60 g a.s./ha BBCH 51 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.010 |
| Use no. 4, 6, 9, 11, 13, 15: Pome fruit 1x80 g a.s./ha a) BBCH 71 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.025 |
| Use no. 5, 7, 8, 10, 12, 14, 16: Pome fruit 2x25 g a.s./ha early application, BBCH 62 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.011 |
| Use no. 5, 7, 8, 10, 12, 14, 16: Pome fruit 2x25 g a.s./ha late application, pre-harvest (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.013 |
| Use no. 17-22: Potato 1x36 g a.s./ha BBCH 12 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.031 |
| Use no. 17-22: Potato 1x36 g a.s./ha BBCH 79 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.001 |
| Use no. 23, 25, 27, 29, 30: Spring cereals 2x35 g a.s./ha BBCH 40 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.001 |
| Use no. 24, 26, 28, 31: Spring cereals 2x35 g a.s./ha 1st appl.: BBCH 12, 2nd appl.: BBCH 40  (annual) b) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.022 |
| ~~Spring cereals 2x35 g a.s./ha 1~~~~st~~ ~~appl.: BBCH 12, 2~~~~nd~~ ~~appl.: BBCH 40 (biennial)~~ | ~~Châteaudun~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.016~~ |
| Use no. 32, 34, 36, 39: Winter cereals 2x36 g a.s./ha BBCH 40 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.001 |
| Use no. 33, 35, 37, 38, 40: Winter cereals 1x30 g a.s./ha a) BBCH 12 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.016 |
| Use no. 41-43, 46-51, 53-58, 62-64, 66-79: Oilseed rape (winter), covering oilseed rape (spring) 2x60 g a.s./ha BBCH 31 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.011 |
| ~~Oilseed rape (winter) 1x60 g a.s./ha. BBCH 11 (biennial)~~ | ~~Châteaudun~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.020~~ |
| Use no. 44, 45, 52, 59, 60, 61, 65: Oilseed rape (winter) 1x48 g a.s./ha BBCH 11 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.019 |
| Use no. 81a, 82, 83a: Sugar beet 2x50 g a.s./ha BBCH 12 (triennial) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.068 |
| Use no. 80, 81b, 83b, 84: Sugar beet 1x50 g a.s./ha BBCH 12 (biennial) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.044 |
| Use no. 85\*: Onions (flower bulbs and flower tubers) 1x46 g a.s./ha BBCH 12 (annual)  *\* NL specific use only* | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.041 |
| Use no. 86\*: Onions (flower bulbs and flower tubers) 2x34 g a.s./ha BBCH 20 (annual)  *\* NL specific use only* | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.059 |
| ~~Onions (flower bulbs and flower tubers) 2x34 g a.s./ha, BBCH 12 (biennial)~~ | ~~Châteaudun~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.041~~ |
| Use no. 87: Onions (flower bulbs and flower tubers) 1x34 g a.s./ha BBCH 12 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.025 |
| Use no. 88, 90: Cabbage (1st) (floriculture & perennial nursery crops) 1x46 g a.s./ha a) BBCH 12 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.057 |
| Use 89\*: Cabbage (1st) (floriculture & perennial nursery crops) 2x34 g a.s./ha ~~BBCH 20~~ BBCH 12 c) (annual)  *\* NL specific use only* | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.099 |
| ~~Cabbage (1~~~~st~~~~) (floriculture & perennial nursery crops) 2x34 g a.s./ha, BBCH 12 (biennial)~~ | ~~Châteaudun~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~< 0.001~~ | ~~0.048~~ |
| Use 88, 90: Pome fruit (tree nursery) 1x46 g a.s./ha a) BBCH 12 (annual) | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.016 |
| Use 89\*: Pome fruit (tree nursery) 2x34 g a.s./ha BBCH 12 (annual)  *\* NL specific use only* | Châteaudun | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 0.028 |

a) Risk envelope; this elevated rate covers all intended lower application rates.

b) Risk envelope covering also single application at BBCH 20.

c) BBCH 20 was given by mistake. The original calculations had been conducted for BBCH 12.

|  |
| --- |
| **zRMS comments:**  Input parameters for acetamiprid and its metabolites presented in Table 8.8.2-3 are in line with EU agreed parameters reported in EFSA Journal 2016;14(11):4610. The only exception is PUF value for metabolite IM-1-5, for which at the EU level PUF of 0.5 relevant for systemic substances was assumed, in line with indications of FOCUS groundwater guidance valid at the time of evaluation. According to the most up-to-date versions of the FOCUS Groundwater Guidance, the PUF value must be set to 0 for all compounds, regardless if they are systemic or not.  **Tier 1**  The groundwater modelling was independently validated by the zRMS in additional modelling with FOCUS PEARL 5.5.5 and FOCUS PELMO 6.6.4 using the EU agreed input parameters, PUF of 0 and application dates as suggested by AppDate 3.06. Obtained results were in good agreement with these derived by the Applicant for acetamiprid and its metabolites.  On the basis of the obtained results no unacceptable leaching of acetamiprid and its metabolites is expected following:   * annual application of ADM.00150.I.2.A to following uses: maize (uses No.1-3), single application to pome fruit (uses No. 4, 6, 9, 11, 13, 15), double application to pome fruit (uses No. 5, 7, 8, 10, 12, 14, 16), single application to potato (uses No. 17-22), double application to spring cereals (uses No. 23, 25, 27, 29, 30), single application to spring cereals (uses No. 24, 28, 31), double application to winter cereals (uses No. 32, 34, 36, 39), singe application to winter cereals (use No. 40), double application to winter oilseed rape (uses No. 41-43, 46-51, 53-58, 62-64), single application to winter oilseed rape (uses No. 44, 45, 52, 59, 60, 61, 65), double application to spring oilseed rape (uses No. 66-79), single application to flower bulbs and flower tubers (use No.87), single application to floriculture, tree nursery & perennial nursery crops (uses No. 88, 90) * biennial application of ADM.00150.I.2.A to following uses: single application to sugar beet (uses No. 80, 81b, 83b, 84)   However, unacceptable leaching of toxicologically relevant metabolite IM-1-5 was demonstrated following application of ADM.00150.I.2.A to following uses:   * annual single application to spring cereals (use No. 26 - intended for the Netherlands), max PECgw 0.151 µg/L FOCUS PEARL 5.5.5/ Hamburg * annual single application to winter cereals (uses No. 33, 35, 37, 38), max PECgw 0.103 µg/L FOCUS PEARL 5.5.5/ Okehampton * triennial double application to sugar beet (uses No. 81a, 82, 83a), max PECgw 0.115 µg/L FOCUS PEARL 5.5.5/ Châteaudun * annual single application to flower bulbs and flower tubers (use No. 85 - intended for the Netherlands), max PECgw 0.126 µg/L FOCUS PELMO 6.6.4/ Okehampton * annual double application to flower bulbs and flower tubers (use No. 86 - intended for the Netherlands), max PECgw 0.165 µg/L FOCUS PELMO 6.6.4/ Okehampton * annual double application to floriculture & perennial nursery crops (use No. 89 - intended for the Netherlands), max PECgw 0.165 µg/L FOCUS PELMO 6.6.4/ Okehampton   According the GAP table and information provided by the Applicant, the application of the product for uses No. 26, 35, 82 85, 86 and 89 are intended for the Netherlands, that have their own specific PECgw calculations presented in the national addendum.  For annual single application to winter cereals PECgw values was higher only for Okehampton scenario. Since in Poland (use No. 38) this scenario is not relevant further refinement is not necessary, however other concerned Member States (Germany and Czech Republic uses No. 37 and 33, respectively) must decide on the acceptance of the results at the Tier 2 modelling based on the refined PUF of 0.5.  For triennial double application to sugar beet PECgw values exceed the threshold concentration only for Châteaudun scenario.Thus, concerned Member States (Germany and Czech Republic for uses No. 81a and 83a, respectively) must decide on the acceptance of the results at the Tier 2 modelling based on the refined PUF of 0.5.  **Tier 2**  Since the PECgw values for metabolite IM-1-5 were above the threshold concentration of 0.1 μg/L in scenarios relevant for the Central Zone at Tier 1, the Applicant performed additional calculations at Tier 2 with consideration PUF of 0.5. However, according to the most up-to-date versions of the FOCUS Groundwater Guidance, the PUF value must be set to 0 for all compounds, regardless if they are systemic or not. Therefore, the refined PUF of 0.5 is up to the decision of each Member States. This consider application of the product ADM.00150.I.2.A to following uses:   * annual single application to winter cereals (use No 37 and 33) * triennial double application to sugar beet (use No. 81a and 83a)   Thus, concerned Member States: Germany and Czech Republic must decide on the acceptance of the results at the Tier 2 modelling.  Please note that results obtained with PUF of 0.5 were validated by the zRMS in additional modelling and were in good agreement with these derived by the Applicant.  Please note that additional groundwater modelling may be required by the concerned Member States that do not accept simulations performed according to FOCUS recommendations |

## Predicted Environmental Concentrations in surface water (PECSW) (KCP 9.2.5)

### Justification for new endpoints

For estimation of the PEC values in surface water and sediment (PECSW/SED) of acetamiprid and its metabolites, no new endpoints were defined. PECSW/SED have been assessed with FOCUS surface water models and the endpoints as proposed in the EFSA conclusion for acetamiprid **(EFSA Journal 2016;14(11):4610)**.

### Active substance, relevant metabolites and the formulation (KCP 9.2.5)

Please note: Since the original submission, the GAP was changed due to issues with groundwater (see chapter 8.8), i.e. the application rate or number of applications was lowered, or the initial BBCH increased in some cases. In the context of a risk envelope, the original application patterns were kept for the PECSW/SED calculations below.

Table 8.9‑1: Input parameters related to application for PECSW/SED calculations

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Use No. | 1-3 | 4, 6, 9, 11, 13, 15 | 5, 7, 8, 10, 12, 14, 16 | 17-22 | 23, 25, 27, 29, 30 | 24, 26g), 28, 31 | 32, 34, 36, 39 | 33, 35, 37, 38, 40 | 41-43, 46-51, 53-58, 62-64, 66-79 |
| Umbrella use No. as used in the ETX a) risk assessment | I | IIa | IIb | III | IVa | IVb | Va | Vb | VIa, VIIa |
| Crop | Corn | Apple | Apple | Potato | Spring wheat, spring bar­ley, spring oats, spring durum wheat, spring triticale | Spring wheat, spring bar­ley, spring oats, spring durum wheat, spring triticale | Winter wheat, winter barley, winter rye, winter triticale, winter oat, spelt | Winter wheat, winter barley, winter rye, winter triticale, winter oat, spelt | Winter oilseed rape and spring oilseed rape |
| FOCUSsw crop | Maize | Pome fruit (late) | Pome fruit (early & late) | Potato (maize) e) | Spring cereals (winter cereals) e) | Spring cereals (winter cereals) e) | Winter cereals | Winter cereals | Oilseed rape, winter & spring (winter cereals, legumes) e) |
| BBCH | 51-75 | 71 – PHI b) | 62 – PHI b) | 12-79 | 40-69 | 12-29 (1stapplication) 40-69 (2ndapplication)g)  20-29~~12-69~~ | 40-69 (spring) | 12-29 (autumn) | 31-71 |
| BBCH used in modelling | 51 | 71 | 62; pre-harvest | 12 / 79 | 40 | 12 | 40 | 12 | 31 |
| Application rate (g a.s./ha) | 60 | 80\* | 25 | 36 | 35 | 35 | 36 | 30\*\* | 60 |
| Number of applications / interval (d) | 1 / 0 | 1 / 0 | 2 / 8 1 / 0 | 1 / 0 | 2 / 10 1 / 0 | 2 / 30g) 1 / 0 | 2 / 10 1 / 0 | 1 / 0 | 2 / 7 1 / 0 |
| Crop inter­ception (%) (STEP 2) | 75 (full canopy) | 65 (full canopy) | 65 (full canopy) | 15 (minimal crop cover) | 70 (full canopy) | 0 (no inter­ception) / 70 (full canopy) d) g) | 70 (full canopy) | 0 (no inter­ception) | 70 (intermedi­ate crop cover) |
| Application timing (STEP 2) | Oct-Feb  March-May  June-Sept | | | | | | | | |
| Application method | Ground spray | Air blast | Air blast | Ground spray | Ground spray | Ground spray | Ground spray | Ground spray | Ground spray |
| CAM (Che­mical appl. method) (STEP 3‑4) | Foliar linear | | | | | | | | |
| Soil depth (cm) (STEP 3‑4) | 4 | | | | | | | | |
| Models used for calculation | FOCUS STEPS 1‑2 v3.2, FOCUS SWASH v5.3, FOCUS PRZM v4.3.1,  FOCUS MACRO v5.5.4, FOCUS TOXWA v5.5.3, SWAN v5.0 | | | | | | | | |
| **Agricultural use pattern of acetamiprid continued** | | | | | | | | | |
| Use No. | 44, 45, 52, 59, 60, 61, 65 | 80-84 | 85 | 86 | 87 | 88 | 89, 90 | 88 | 89, 90 |
| Umbrella use No. as used in the ETX a) risk assessment | VIb | VIIIa | IXa | IXb | IXb | Xa | Xb | Xa | Xb |
| Crop | Winter oilseed rape | Sugar beet | Flower bulbs and flower tubers | Flower bulbs and flower tubers | Flower bulbs and flower tubers | Floriculture crops, per­ennial nur­sery crops | Floriculture crops, per­ennial nur­sery crops | Tree nursery crops | Tree nursery crops |
| FOCUSsw crop | Oilseed rape, winter (winter cereals) e) | Sugar beet (maize) e) | Bulb vegetables (legumes) e) | Bulb vegetables (legumes) e) | Bulb vegetables (legumes) e) | Leafy vegetables (1st) (legumes) e) | Leafy vegetables (1st) (legumes) e) | Pome fruit, early & late | Pome fruit, early & late |
| BBCH | 11-19 | 12-39 | 12-91 | 20-91 | 12-91 | 12-91 | 12-91 | 12-91 (Mar-Aug) | 12-91 (Mar-Aug) |
| BBCH used in modelling | 11 | 12 | 12 | 20 | 12 | 12 | 12 | 12; up to 91 (Aug) | 12; up to 91 (Aug) |
| Application rate (g a.s./ha) | 60\*\*\* | 50 | 46 | 34 | 34 | 46 | 34 | 46 | 34 |
| Number of applications / interval (d) | 1 / 0 | 2 / 7 1 / 0 | 1 / 0 | 2 / 7 1 / 0 | ~~2 / 7~~ 1 / 0 | 1 / 0 | 2 / 7 1 / 0 (use no. 90) | 1 / 0 | 2 / 7 1 / 0 (use no 90) |
| Crop inter­ception (%) (STEP 2) | 40 (minimal crop cover) | 20 (minimal crop cover) | 10 (minimal crop cover) | 25 (interme­diate crop cover) | 10 (minimal crop cover) | 25 (minimal crop cover) | 25 (minimal crop cover) | 20 (minimal crop cover) | 20 (minimal crop cover) |
| Application timing (STEP 2) | Oct-Feb  March-May  June-Sept | | | | | | | | |
| Application method | Ground spray | Ground spray | Ground spray | Ground spray | Ground spray | Ground spray | Ground spray | Air blast | Air blast |
| CAM (Che­mical appl. method) (STEP 3‑4) | 2 – foliar linear | | | | | | | | |
| Soil depth (cm) (STEP 3‑4) | 4 | | | | | | | | |
| Models used for calculation | FOCUS STEPS 1‑2 v3.2, FOCUS SWASH v5.3, FOCUS PRZM v4.3.1,  FOCUS MACRO v5.5.4, FOCUS TOXWA v5.5.3, SWAN v5.0 | | | | | | | | |

a) ETX = Ecotoxicology

b) PHI=Pre-Havest Interval.

c) Also covering lower application rates based on a risk envelope

\* 60 g a.s./ha according to GAP table for uses No. 4, 6, 9, 11, 13, 15

\*\* 29 g a.s./ha according to GAP table for use No.40

\*\*\* 48 g a.s./ha according to GAP table for uses No. 44, 52, 59, 61, 65 and 40 g a.s./ha for uses No. 45 and 60.

d) 0% (no interception) for 1st application at BBCH 12-29 followed by 70% (full canopy) for 2nd application at BBCH 40-69

e) In brackets: Surrogate crop used for those FOCUS scenarios not defined for the main crop but relevant for the central zone.

g) for use No 26 - 1st application at BBCH 12-29 followed by 2nd application at BBCH 40-69

Where applicable, application windows in SWASH v5.3 were estimated with the tool AppDate v3.06 (Klein, 2019) based on the intended crop growth stages. In general, the start of the application windows was set to the earliest possible BBCH stage. For potatoes, calculations were additionally done for the latest possible BBCH stage (set as end of the application window) since the GAP foresees a very wide BBCH range. For uses, where applications up to the pre-harvest interval (PHI) are foreseen, the end of the corresponding application window was calculated based on the harvest date considering the PHI stated in the recommended GAP. An overview of the chosen application windows is given in the following table.

Table 8.9‑2: FOCUS Step 3 Scenario related input parameters for PECSW/SED calculations for the application of acetamiprid

| Application pattern | Scenario | Application window used in modelling | | | |
| --- | --- | --- | --- | --- | --- |
| Single application | | Multiple application | |
| Start date | End date | Start date | End date |
| Maize 1x60 g a.s./ha BBCH 51 | D3 | 12-Jul | 11-Aug | - | - |
| D4 | 19-Jul | 18-Aug | - | - |
| D5 | 26-Jun | 26-Jul | - | - |
| D6 | 30-May | 29-Jun | - | - |
| R1 | 10-Jul | 9-Aug | - | - |
| R2 | 15-Jul | 14-Aug | - | - |
| R3 | 30-Jun | 30-Jul | - | - |
| R4 | 27-May | 26-Jun | - | - |
| Pome fruit  1x80 g a.s./ha  BBCH 71 | D3 | 7-Jul | 6-Aug | - | - |
| D4 | 11-Jul | 10-Aug | - | - |
| D5 | 7-Jun | 7-Jul | - | - |
| R1 | 7-Jul | 6-Aug | - | - |
| R2 | 3-Aug | 2-Sep | - | - |
| R3 | 7-Jun | 7-Jul | - | - |
| R4 | 7-Jun | 7-Jul | - | - |
| Pome fruit  2x25 g a.s./ha  early application  BBCH 62 | D3 | 16-Jun | 16-Jul | 16-Jun | 24-Jul |
| D4 | 20-Jun | 20-Jul | 20-Jun | 28-Jul |
| D5 | 19-May | 18-Jun | 19-May | 26-Jun |
| R1 | 16-Jun | 16-Jul | 16-Jun | 24-Jul |
| R2 | 4-Jul | 3-Aug | 4-Jul | 11-Aug |
| R3 | 19-May | 18-Jun | 19-May | 26-Jun |
| R4 | 16-May | 15-Jun | 16-May | 23-Jun |
| Pome fruit  2x25 g a.s./ha  late application  pre-harvest | D3 | 16-Sep | 16-Oct | 8-Sep | 16-Oct |
| D4 | 16-Sep | 16-Oct | 8-Sep | 16-Oct |
| D5 | 27-Aug | 26-Sep | 19-Aug | 26-Sep |
| R1 | 16-Sep | 16-Oct | 8-Sep | 16-Oct |
| R2 | 17-Aug | 16-Sep | 9-Aug | 16-Sep |
| R3 | 1-Sep | 1-Oct | 24-Aug | 1-Oct |
| R4 | 1-Sep | 1-Oct | 24-Aug | 1-Oct |
| Potato  (maize as surrogate for D5 & R4)  1x36 g a.s./ha  BBCH 12 | D3 | 15-May | 14-Jun | - | - |
| D4 | 28-May | 27-Jun | - | - |
| D5 | 15-May | 14-Jun | - | - |
| D6 (1st) | 13-Apr | 13-May | - | - |
| D6 (2nd) | 9-Aug | 8-Sep | - | - |
| R1 | 9-May | 8-Jun | - | - |
| R2 | 20-Mar | 19-Apr | - | - |
| R3 | 13-Apr | 13-May | - | - |
| R4 | 15-Apr | 15-May | - | - |
| Potato  (maize as surrogate for D5 & R4)  1x36 g a.s./ha  BBCH 79 | D3 | 26-Jul | 25-Aug | - | - |
| D4 | 12-Aug | 11-Sep | - | - |
| D5 | 24-Jul | 23-Aug | - | - |
| D6 (1st) | 29-May | 28-Jun | - | - |
| D6 (2nd) | 05-Oct | 04-Nov | - | - |
| R1 | 13-Jul | 12-Aug | - | - |
| R2 | 10-May | 09-Jun | - | - |
| R3 | 29-Jun | 29-Jul | - | - |
| R4 | 04-Jul | 03-Aug | - | - |
| Spring cereals  (winter cereals as surrogate for R1, R3)  2x35 g a.s./ha  BBCH 40a | D1 | 6-Jun | 6-Jul | 6-Jun | 16-Jul |
| D3 | 9-May | 8-Jun | 9-May | 18-Jun |
| D4 | 28-May | 27-Jun | 28-May | 7-Jul |
| D5 | 20-Apr | 20-May | 20-Apr | 30-May |
| R1 | 8-May | 7-Jun | 8-May | 17-Jun |
| R3 | 4-Apr | 4-May | 4-Apr | 14-May |
| R4 | 20-Apr | 20-May | 20-Apr | 30-May |
| Spring cereals  (winter cereals as surrogate for R1, R3)  2x35 g a.s./ha  BBCH 12 | D1 | 8-May | 7-Jun | 8-May | 7-Jul |
| D3 | 5-Apr | 5-May | 5-Apr | 4-Jun |
| D4 | 29-Apr | 29-May | 29-Apr | 28-Jun |
| D5 | 18-Mar | 17-Apr | 18-Mar | 17-May |
| R1 d | 08-Apr | 08-May | 08-Apr | 7-Jun |
| R3 d | 05-Mar | 04-Apr | 05-Mar | 04-May |
| R4 | 18-Mar | 17-Apr | 18-Mar | 17-May |
| Winter cereals  2x36 g a.s./ha  BBCH 40 a | D1 | 21-Apr | 21-May | 21-Apr | 31-May |
| D2 | 30-Apr | 30-May | 30-Apr | 9-Jun |
| D3 | 16-May | 15-Jun | 16-May | 25-Jun |
| D4 | 16-Apr | 16-May | 16-Apr | 26-May |
| D5 | 2-Apr | 2-May | 2-Apr | 12-May |
| D6 | 1-Mar | 31-Mar | 1-Mar | 10-Apr |
| R1 | 8-May | 7-Jun | 8-May | 17-Jun |
| R3 | 4-Apr | 4-May | 4-Apr | 14-May |
| R4 | 26-Feb | 28-Mar | 26-Feb | 7-Apr |
| Winter cereals  1x30 g a.s./ha  BBCH 12 | D1 | 29-Sep | 29-Oct | - | - |
| D2 | 29-Oct | 28-Nov | - | - |
| D3 | 25-Nov | 25-Dec | - | - |
| D4 | 26-Sep | 26-Oct | - | - |
| D5 | 14-Nov | 14-Dec | - | - |
| D6 | 4-Dec | 3-Jan | - | - |
| R1 | 16-Nov | 16-Dec | - | - |
| R3 | 5-Dec | 4-Jan | - | - |
| R4 | 18-Nov | 18-Dec | - | - |
| Oilseed rape (winter)  (winter cereals as surrogate for R4)  2x60 g a.s./ha  BBCH 31 | D2 | 15-Mar | 14-Apr | 15-Mar | 21-Apr |
| D3 | 26-Feb | 28-Mar | 26-Feb | 4-Apr |
| D4 | 6-Mar | 5-Apr | 6-Mar | 12-Apr |
| D5 | 5-Mar | 4-Apr | 5-Mar | 11-Apr |
| R1 | 17-Apr | 17-May | 17-Apr | 24-May |
| R3 | 9-Mar | 8-Apr | 9-Mar | 15-Apr |
| R4 | 28-Jan | 27-Feb | 28-Jan | 06-Mar |
| Oilseed rape (winter)  (cereals, winter as surrogate for R4)  1x60 g a.s./ha  BBCH 11 | D2 | 17-Sep | 17-Oct | - | - |
| D3 | 4-Sep | 4-Oct | - | - |
| D4 | 5-Sep | 5-Oct | - | - |
| D5 | 22-Sep | 22-Oct | - | - |
| R1 | 6-Sep | 6-Oct | - | - |
| R3 | 7-Oct | 6-Nov | - | - |
| R4 | 15-Nov | 15-Dec | - | - |
| Oilseed rape (spring)  (legumes as surrogate for R3 & R4)  2x60 g a.s./ha  BBCH 31 | D1 | 13-Jun | 13-Jul | 13-Jun | 20-Jul |
| D3 | 15-May | 14-Jun | 15-May | 21-Jun |
| D4 | 26-May | 25-Jun | 26-May | 2-Jul |
| D5 | 22-Apr | 22-May | 22-Apr | 29-May |
| R1 | 11-May | 10-Jun | 11-May | 17-Jun |
| R3 | 02-May | 01-Jun | 02-May | 08-Jun |
| R4 | 02-May | 01-Jun | 02-May | 08-Jun |
| Sugar beet  (maize as surrogate for D5 & R4)  2x50 g a.s./ha  BBCH 12 | D3 | 5-May | 4-Jun | 5-May | 11-Jun |
| D4 | 13-May | 12-Jun | 13-May | 19-Jun |
| D5 | 15-May | 14-Jun | 15-May | 21-Jun |
| R1 | 26-Apr | 26-May | 26-Apr | 2-Jun |
| R3 | 31-Mar | 30-Apr | 31-Mar | 7-May |
| R4 | 15-Apr | 15-May | 15-Apr | 22-May |
| Bulb vegetables  (legumes as surrogate for D5)  (flower bulbs & flower tubers)  1x46 g a.s./ha  BBCH 12 | D3 | 9-May | 8-Jun | - | - |
| D4 | 9-May | 8-Jun | - | - |
| D5 | 21-Mar | 20-Apr | - | - |
| D6 (1st) | 21-May | 20-Jun | - | - |
| D6 (2nd) | 18-Nov | 18-Dec | - | - |
| R1 | 4-May | 3-Jun | - | - |
| R2 | 16-Mar | 15-Apr | - | - |
| R3 | 17-Mar | 16-Apr | - | - |
| R4 | 17-Mar | 16-Apr | - | - |
| Bulb vegetables  (legumes as surrogate for D5)  (flower bulbs & flower tubers)  2x34 g a.s./ha  BBCH 20 b | D3 | 24-Jun | 24-Jul | 24-Jun | 31-Jul |
| D4 | 2-Jul | 1-Aug | 2-Jul | 8-Aug |
| D5 | 08-Apr | 08-May | 08-Apr | 15-May |
| D6 (1st) | 25-Jun | 25-Jul | 25-Jun | 1-Aug |
| D6 (2nd) | 24-Feb | 26-Mar | 24-Feb | 2-Apr |
| R1 | 19-Jun | 19-Jul | 19-Jun | 26-Jul |
| R2 | 8-May | 7-Jun | 8-May | 14-Jun |
| R3 | 8-May | 7-Jun | 8-May | 14-Jun |
| R4 | 8-May | 7-Jun | 8-May | 14-Jun |
| Bulb vegetables  (legumes as surrogate for D5)  (flower bulbs & flower tubers)  1 ~~2~~x34 g a.s./ha  BBCH 12 | D3 | 9-May | 8-Jun | ~~9-May~~ | ~~15-Jun~~ |
| D4 | 9-May | 8-Jun | ~~9-May~~ | ~~15-Jun~~ |
| D5 | 21-Mar | 20-Apr | ~~21-Mar~~ | ~~27-Apr~~ |
| D6 (1st) | 21-May | 20-Jun | ~~21-May~~ | ~~27-Jun~~ |
| D6 (2nd) | 18-Nov | 18-Dec | ~~18-Nov~~ | ~~25-Dec~~ |
| R1 | 4-May | 3-Jun | ~~4-May~~ | ~~10-Jun~~ |
| R2 | 16-Mar | 15-Apr | ~~16-Mar~~ | ~~22-Apr~~ |
| R3 | 17-Mar | 16-Apr | ~~17-Mar~~ | ~~23-Apr~~ |
| R4 | 17-Mar | 16-Apr | ~~17-Mar~~ | ~~23-Apr~~ |
| Leafy vegetables (1st) (legumes as surrogate for D5)  (floriculture & perennial nursery crops  1x46 g a.s./ha  BBCH 12 | D3 | 4-May | 3-Jun | - | - |
| D4 | 25-May | 24-Jun | - | - |
| D5 | 21-Mar | 20-Apr | - | - |
| D6 | 25-Aug | 24-Sep | - | - |
| R1 | 29-Apr | 29-May | - | - |
| R2 | 16-Mar | 15-Apr | - | - |
| R3 | 14-Mar | 13-Apr | - | - |
| R4 | 14-Mar | 13-Apr | - | - |
| Leafy vegetables (1st) (legumes as surrogate for D5)  (floriculture & perennial nursery crops  2x34 g a.s./ha  BBCH 12 | D3 | 4-May | 3-Jun | 4-May | 10-Jun |
| D4 | 25-May | 24-Jun | 25-May | 1-Jul |
| D5 | 21-Mar | 20-Apr | 21-Mar | 27-Apr |
| D6 | 25-Aug | 24-Sep | 25-Aug | 1-Oct |
| R1 | 29-Apr | 29-May | 29-Apr | 5-Jun |
| R2 | 16-Mar | 15-Apr | 16-Mar | 22-Apr |
| R3 | 14-Mar | 13-Apr | 14-Mar | 20-Apr |
| R4 | 14-Mar | 13-Apr | 14-Mar | 20-Apr |
| Pome fruit  (tree nursery crops)  early application  BBCH 12 | D3 | 18-Apr | 18-May | - | - |
| D4 | 23-Apr | 23-May | - | - |
| D5 | 3-Apr | 3-May | - | - |
| R1 | 18-Apr | 18-May | - | - |
| R2 | 19-Mar | 18-Apr | - | - |
| R3 | 3-Apr | 3-May | - | - |
| R4 | 18-Mar | 17-Apr | - | - |
| Pome fruit  (tree nursery crops)  1x46 g a.s./ha  late application  up to BBCH 91 (Aug)c | D3 | 15-Aug | 14-Sep | - | - |
| D4 | 15-Aug | 14-Sep | - | - |
| D5 | 15-Aug | 14-Sep | - | - |
| R1 | 15-Aug | 14-Sep | - | - |
| R2 | 15-Aug | 14-Sep | - | - |
| R3 | 15-Aug | 14-Sep | - | - |
| R4 | 15-Aug | 14-Sep | - | - |
| Pome fruit  (tree nursery crops)  2x34 g a.s./ha  early application  BBCH 12 | D3 | 18-Apr | 18-May | 18-Apr | 25-May |
| D4 | 23-Apr | 23-May | 23-Apr | 30-May |
| D5 | 3-Apr | 3-May | 3-Apr | 10-May |
| R1 | 18-Apr | 18-May | 18-Apr | 25-May |
| R2 | 19-Mar | 18-Apr | 19-Mar | 25-Apr |
| R3 | 3-Apr | 3-May | 3-Apr | 10-May |
| R4 | 18-Mar | 17-Apr | 18-Mar | 24-Apr |
| Pome fruit  (tree nursery crops)  2x34 g a.s./ha  late application  up to BBCH 91 (Aug)c | D3 | 15-Aug | 14-Sep | 15-Aug | 21-Sep |
| D4 | 15-Aug | 14-Sep | 15-Aug | 21-Sep |
| D5 | 15-Aug | 14-Sep | 15-Aug | 21-Sep |
| R1 | 15-Aug | 14-Sep | 15-Aug | 21-Sep |
| R2 | 15-Aug | 14-Sep | 15-Aug | 21-Sep |
| R3 | 15-Aug | 14-Sep | 15-Aug | 21-Sep |
| R4 | 15-Aug | 14-Sep | 15-Aug | 21-Sep |

a For spring and winter cereals, the date at BBCH 39 was set as date of the 1st application since BBCH 40 is not defined in AppDate.

b For bulb vegetables at BBCH 20 (including the surrogate crop legumes), the date at BBCH 19 was set as date of the 1st application since in AppDate (v3.06) bulb vegetables / legumes are only defined until BBCH 19 and from BBCH 41 / BBCH 30 onwards.

c The start dates of the application windows for late applications to tree nursery crops were set to 15th of August for all relevant scenarios in accordance with the recommended GAP.

d The application date for BBCH 12 for winter cereals as surrogate for spring cereals in R1 and R3 was set to 30 days before the date of BBCH 40. In the existing FOCUS scenarios for spring cereals the interval between BBCH 12 and BBCH 40 is approximately 30 days. The AppDate date for BBCH 12 for winter cereals cannot be used here since it would be in autumn and thus makes no sense for a spring application to spring cereals.

|  |
| --- |
| **zRMS comments:**  The use pattern presented in Table 8.9-1 is in general in line with the GAP table presented in point 8.1 with following exception and remarks:   * For application to apples (uses No. 4, 6, 9, 11, 13, 15) lower application rate of 60 g a.s./ha is presented in the GAP table. Since calculations were performed for higher application rate (1 x 80 g a.s./ha) thus, it covers rate of 60 g a.s./ha and additional calculation is not necessary. * For application to spring cereals (uses No. 24, 28, 31) single annual application rate of 35 g a.s./ha at BBCH stage of 20-29 is presented in the GAP table, whereas for use No. 26 double application rate (2 x 35 g a.s./ha) at BBCH stage of 12-29 (1st application) and 40-69 (2nd application) is presented in the GAP table. Thus, respective changes of the use pattern were introduced to the Table 8.9-1. Crop interception of 0% presents a worse case and it is accepted by the zRMS * For application to winter cereals (use No. 40) lower application rate of 29 g a.s./ha is presented in the GAP table. Since calculations were performed for higher application rate (1 x 30 g a.s./ha) thus, it covers rate of 29 g a.s./ha and additional calculation is not necessary. * For application to winter oilseed rape (uses No. 44, 52, 59, 61, 65) lower application rate of 48 g a.s./ha is presented in the GAP table. Since calculations were performed for higher application rate (1 x 60 g a.s./ha) thus, it covers rate of 48 g a.s./ha and additional calculation is not necessary. * For application to winter oilseed rape (uses No. 45 and 60) lower application rate of 40 g a.s./ha is presented in the GAP table. Since calculations were performed for higher application rate (1 x 60 g a.s./ha) thus, it covers rate of 40 g a.s./ha and additional calculation is not necessary.   The crop interception for Step 1-2 is in line with FOCUS recommendation and is agreed by the zRMS.  Since not all relevant to the central zone scenarios are defined for the evaluated crops, the following surrogate crops were considered by the Applicant in simulations:   * Maize was used as surrogate crop for potato for missing D5 and R4 scenarios * Winter cereals was used as a surrogate crop for spring cereals for missing scenarios: R1, R3 * Winter cereals was used as a surrogate crop for winter oilseed rape for missing scenarios R4 * Legumes were used as surrogate crop for spring oilseed rape for missing scenarios R3 and R4 * Maize was used as surrogate crop for sugar beet for missing scenarios D5 and R4 * Vegetables bulb was used as surrogate crop for flower bulbs and flower tuber for all relevant scenarios to the central zone, only for missing D5 scenario legumes were used as surrogate crop   Application dates presented in Table 8.9-2 were checked by the zRMS using AppDate ver. 3.06 tool and are considered acceptable. |

#### Acetamiprid and its metabolites

Table 8.9‑3: Input parameters related to active substance acetamiprid and its metabolites IM-1-2, IM-1-4, IC-0, IM-1-5 and IB-1-1 for PECSW/SED calculations at STEP 1­-2 and STEP 3-4

| Compound | Acetamiprid | IM-1-2 | IM-1-4 | IC-0 | IM-1-5 | IB-1-1 | Value in accordance to EU endpoint / Reference |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Molecular weight (g/mol) | 223 | 240.69 | 156.61 | 157.55 | 197.66 | 204.23 | Yes / EFSA, 2016 |
| Saturated va­pour pressure (Pa) | 1x10-6 (20°C) | not required for Step 1-2 | | | | | Yes / EFSA, 2016 |
| Water solubility (mg/L) | 2950 (pH 7 and 25°C) | 1 x 106 (pH 7 and 25°C) | 1 x 106 (pH 7 and 25°C) | 1 x 106 (pH 7 and 25°C) | 1 x 106 (pH 7 and 25°C) | 1 x 106 (pH 7 and 25°C) | Yes / EFSA, 2016 |
| Diffusion coefficient in water (m²/d) | 4.3 x 10-5 | not required for Step 1-2 | | | | | default |
| Diffusion coefficient in air (m²/d) | 0.43 | not required for Step 1-2 | | | | | default |
| Kfoc / Kfom # (mL/g) | 106.5 / 61.8  (arithmetic mean, n = 5) | 54 / 31.3  (arithmetic mean, n = 4) | 171 / 99.2  (arithmetic mean, n = 4) | 122 / 70.8  (arithmetic mean, n = 5) | 325 / 189  (arithmetic mean, n = 4) | 0 / 0  (default value) | Yes / EFSA, 2016 |
| Freundlich exponent 1/n | 0.86  (arithmetic mean, n = 5) | not required for Step 1-2 | | | | | Yes / EFSA, 2016 |
| Plant uptake | 0 | not required for Step 1-2 | | | | | default |
| Wash-off factor from crop (1/mm) | 0.05 (MACRO)  0.50 (PRZM) | not required for Step 1-2 | | | | | default |
| DT50,soil (d) | 1.45  (geometric mean lab, n = 7, normalised to pF2, 20°C, Q10 of 2.58) | 1.7  (geometric mean lab, n = 3, normalised to pF2, 20°C, Q10 of 2.58) | 14.6  (geometric mean lab, n = 7, normalised to pF2, 20°C, Q10 of 2.58) | 2.7  (geometric mean lab, n = 7 , normalised to pF2, 20°C, Q10 of 2.58) | 495  (geometric mean lab, n = 7, normalised to pF2, 20°C, Q10 of 2.58) | -\*\* | Yes / EFSA, 2016 |
| DT50,water (d) | 27 (whole system value) | 1000 (default) | 1000 (default) | 1000 (default) | 1000 (default) | 1000 (default) | Yes / EFSA, 2016 |
| DT50,sed (d) | Step1-2: 27 (whole system value)  Step 3-4: 1000 (default) | 1000 (default) | 1000 (default) | 1000 (default) | 1000 (default) | 1000 (default) | Yes / EFSA, 2016 |
| DT50,whole system (d) | 27 (geometric mean n = 2) | 1000 (default) | 1000 (default) | 1000 (default) | 1000 (default) | 1000 (default) | Yes / EFSA, 2016 |
| Maximum occurrence (% molar basis with respect to the parent) | - | Soil: 55  Total w/s system: 13.4 | Soil: 72  Total w/s system: 81.5\*\*\* | Soil: 11.3  Total w/s system: 29.5 | Soil: 20  Total w/s system: 0\* | Soil: 0\*\*  Total w/s system: 35 | Yes / EFSA, 2016 |

# Calculated with Kfom = Kfoc / 1.724.

\*Soil metabolite; not formed in water or sediment.

\*\*Metabolite only formed in water through photochemical degradation.

\*\*\* Maximum from aerobic mineralisation study.

PECsw/sed – FOCUS Step 1-2

Table 8.9‑4: FOCUS Step 1-2 PECSW and PECSED for acetamiprid following single / multiple application(s) on various crops

| Application pattern | Number of applications | Step | Region | Season | Acetamiprid | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Maximum PECSW [µg/L] | 21 d TWA PECSW [µg/L] a | Maximum PECSED [µg/L] |
| Maize 1x60 g a.s./ha BBCH 51 | 1 | 1 | - | - | 18.065 | 13.913 | 18.680 |
| 2 | N EU | Oct – Feb | 0.778 | 0.588 | 0.788 |
| Mar – May | 0.584 | 0.438 | 0.587 |
| Jun – Sep | 0.584 | 0.438 | 0.587 |
| 2 | S EU | Oct – Feb | 0.714 | 0.538 | 0.721 |
| Mar – May | 0.714 | 0.538 | 0.721 |
| Jun – Sep | 0.649 | 0.488 | 0.654 |
| Pome fruit (late)  1x80 g a.s./ha  BBCH 71 | 1 | 1 | - | - | 27.544 | 20.901 | 28.050 |
| 2 | N EU | Oct – Feb | 4.193 | 3.291 | 4.066 |
| Mar – May | 4.193 | 3.044 | 3.690 |
| Jun – Sep | 4.193 | 3.044 | 3.690 |
| 2 | S EU | Oct – Feb | 4.193 | 3.209 | 3.941 |
| Mar – May | 4.193 | 3.209 | 3.941 |
| Jun – Sep | 4.193 | 3.126 | 3.816 |
| Pome fruit (early)  2x25 g a.s./ha  BBCH 62 | 2 | 1 | - | - | 19.460 | 14.590 | 19.572 |
| 2 | N EU | Oct – Feb | 3.710 | 2.779 | 3.366 |
| Mar – May | 3.710 | 2.700 | 3.246 |
| Jun – Sep | 3.710 | 2.700 | 3.246 |
| 2 | S EU | Oct – Feb | 3.710 | 2.752 | 3.326 |
| Mar – May | 3.710 | 2.752 | 3.326 |
| Jun – Sep | 3.710 | 2.726 | 3.286 |
| Pome fruit (early)  2x25 g a.s./ha  BBCH 62  (single application) | 1 | 1 | - | - | 19.460 | 14.590 | 19.572 |
| 2 | N EU | Oct – Feb | 2.433 | 1.799 | 2.192 |
| Mar – May | 2.433 | 1.722 | 2.074 |
| Jun – Sep | 2.433 | 1.722 | 2.074 |
| 2 | S EU | Oct – Feb | 2.433 | 1.774 | 2.152 |
| Mar – May | 2.433 | 1.774 | 2.152 |
| Jun – Sep | 2.433 | 1.748 | 2.113 |
| Pome fruit (late)  2x25 g a.s./ha  BBCH 62 | 2 | 1 | - | - | 17.215 | 13.063 | 17.531 |
| 2 | N EU | Oct – Feb | 1.763 | 1.389 | 1.704 |
| Mar – May | 1.763 | 1.310 | 1.584 |
| Jun – Sep | 1.763 | 1.310 | 1.584 |
| 2 | S EU | Oct – Feb | 1.763 | 1.363 | 1.664 |
| Mar – May | 1.763 | 1.363 | 1.664 |
| Jun – Sep | 1.763 | 1.336 | 1.624 |
| Pome fruit (late)  2x25 g a.s./ha  BBCH 62  (single application) | 1 | 1 | - | - | 17.215 | 13.063 | 17.531 |
| 2 | N EU | Oct – Feb | 1.310 | 1.028 | 1.271 |
| Mar – May | 1.310 | 0.951 | 1.153 |
| Jun – Sep | 1.310 | 0.951 | 1.153 |
| 2 | S EU | Oct – Feb | 1.310 | 1.003 | 1.232 |
| Mar – May | 1.310 | 1.003 | 1.232 |
| Jun – Sep | 1.310 | 0.977 | 1.192 |
| Potato  1x36 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 10.839 | 8.348 | 11.208 |
| 2 | N EU | Oct – Feb | 0.933 | 0.713 | 0.957 |
| Mar – May | 0.537 | 0.407 | 0.546 |
| Jun – Sep | 0.537 | 0.407 | 0.546 |
| 2 | S EU | Oct – Feb | 0.801 | 0.611 | 0.820 |
| Mar – May | 0.801 | 0.611 | 0.820 |
| Jun – Sep | 0.669 | 0.509 | 0.683 |
| Spring cereals  2x35 g a.s./ha  BBCH 40 | 2 | 1 | - | - | 21.076 | 16.232 | 21.794 |
| 2 | N EU | Oct – Feb | 0.644 | 0.485 | 0.651 |
| Mar – May | 0.507 | 0.379 | 0.509 |
| Jun – Sep | 0.507 | 0.379 | 0.509 |
| 2 | S EU | Oct – Feb | 0.599 | 0.450 | 0.603 |
| Mar – May | 0.599 | 0.450 | 0.603 |
| Jun – Sep | 0.553 | 0.415 | 0.556 |
| Spring cereals  2x35 g a.s./ha  BBCH 40  (single application) | 1 | 1 | - | - | 21.076 | 16.232 | 21.794 |
| 2 | N EU | Oct – Feb | 0.492 | 0.372 | 0.499 |
| Mar – May | 0.356 | 0.267 | 0.358 |
| Jun – Sep | 0.356 | 0.267 | 0.358 |
| 2 | S EU | Oct – Feb | 0.447 | 0.337 | 0.452 |
| Mar – May | 0.447 | 0.337 | 0.452 |
| Jun – Sep | 0.401 | 0.302 | 0.405 |
| Spring cereals  2x35 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 21.076 | 16.232 | 21.794 |
| 2 | N EU | Oct – Feb | 1.098 | 0.838 | 1.125 |
| Mar – May | 0.645 | 0.488 | 0.655 |
| Jun – Sep | 0.645 | 0.488 | 0.655 |
| 2 | S EU | Oct – Feb | 0.947 | 0.721 | 0.968 |
| Mar – May | 0.947 | 0.721 | 0.968 |
| Jun – Sep | 0.796 | 0.605 | 0.811 |
| Spring cereals  2x35 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 21.076 | 16.232 | 21.794 |
| 2 | N EU | Oct – Feb | 1.020 | 0.780 | 1.048 |
| Mar – May | 0.567 | 0.430 | 0.577 |
| Jun – Sep | 0.567 | 0.430 | 0.577 |
| 2 | S EU | Oct – Feb | 0.869 | 0.664 | 0.891 |
| Mar – May | 0.869 | 0.664 | 0.891 |
| Jun – Sep | 0.718 | 0.547 | 0.734 |
| Winter cereals  2x36 g a.s./ha  BBCH 40 | 2 | 1 | - | - | 21.678 | 16.695 | 22.416 |
| 2 | N EU | Oct – Feb | 0.663 | 0.499 | 0.669 |
| Mar – May | 0.522 | 0.390 | 0.523 |
| Jun – Sep | 0.522 | 0.390 | 0.523 |
| 2 | S EU | Oct – Feb | 0.616 | 0.463 | 0.621 |
| Mar – May | 0.616 | 0.463 | 0.621 |
| Jun – Sep | 0.569 | 0.426 | 0.572 |
| Winter cereals  2x36 g a.s./ha  BBCH 40  (single application) | 1 | 1 | - | - | 21.678 | 16.695 | 22.416 |
| 2 | N EU | Oct – Feb | 0.506 | 0.383 | 0.513 |
| Mar – May | 0.366 | 0.275 | 0.368 |
| Jun – Sep | 0.366 | 0.275 | 0.368 |
| 2 | S EU | Oct – Feb | 0.459 | 0.347 | 0.465 |
| Mar – May | 0.459 | 0.347 | 0.465 |
| Jun – Sep | 0.413 | 0.311 | 0.417 |
| Winter cereals  1x30 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 9.033 | 6.956 | 9.340 |
| 2 | N EU | Oct – Feb | 0.874 | 0.669 | 0.898 |
| Mar – May | 0.486 | 0.369 | 0.495 |
| Jun – Sep | 0.486 | 0.369 | 0.495 |
| 2 | S EU | Oct – Feb | 0.745 | 0.569 | 0.764 |
| Mar – May | 0.745 | 0.569 | 0.764 |
| Jun – Sep | 0.616 | 0.469 | 0.629 |
| Oilseed rape (winter)  2x60 g a.s./ha  BBCH 31 | 2 | 1 | - | - | 36.130 | 27.826 | 37.361 |
| 2 | N EU | Oct – Feb | 1.140 | 0.858 | 1.151 |
| Mar – May | 0.899 | 0.672 | 0.901 |
| Jun – Sep | 0.899 | 0.672 | 0.901 |
| 2 | S EU | Oct – Feb | 1.059 | 0.796 | 1.068 |
| Mar – May | 1.059 | 0.796 | 1.068 |
| Jun – Sep | 0.979 | 0.734 | 0.984 |
| Oilseed rape (winter)  2x60 g a.s./ha  BBCH 31  (single application) | 1 | 1 | - | - | 0.843 | 0.638 | 0.856 |
| 2 | N EU | Oct – Feb | 0.610 | 0.458 | 0.614 |
| Mar – May | 0.610 | 0.458 | 0.614 |
| Jun – Sep | 0.765 | 0.578 | 0.775 |
| 2 | S EU | Oct – Feb | 0.765 | 0.578 | 0.775 |
| Mar – May | 0.688 | 0.518 | 0.694 |
| Jun – Sep | 0.843 | 0.638 | 0.856 |
| Oilseed rape (winter)  1x60 g a.s./ha  BBCH 11 | 1 | 1 | - | - | 18.065 | 13.913 | 18.680 |
| 2 | N EU | Oct – Feb | 1.231 | 0.938 | 1.259 |
| Mar – May | 0.765 | 0.578 | 0.775 |
| Jun – Sep | 0.765 | 0.578 | 0.775 |
| 2 | S EU | Oct – Feb | 1.076 | 0.818 | 1.097 |
| Mar – May | 1.076 | 0.818 | 1.097 |
| Jun – Sep | 0.921 | 0.698 | 0.936 |
| Oilseed rape (spring)  2x60 g a.s./ha  BBCH 31 | 2 | 1 | - | - | 36.130 | 27.826 | 37.361 |
| 2 | N EU | Oct – Feb | 1.140 | 0.858 | 1.151 |
| Mar – May | 0.899 | 0.672 | 0.901 |
| Jun – Sep | 0.899 | 0.672 | 0.901 |
| 2 | S EU | Oct – Feb | 1.059 | 0.796 | 1.068 |
| Mar – May | 1.059 | 0.796 | 1.068 |
| Jun – Sep | 0.979 | 0.734 | 0.984 |
| Oilseed rape (spring)  2x60 g a.s./ha  BBCH 31  (single application) | 1 | 1 | - | - | 36.130 | 27.826 | 37.361 |
| 2 | N EU | Oct – Feb | 0.843 | 0.638 | 0.856 |
| Mar – May | 0.610 | 0.458 | 0.614 |
| Jun – Sep | 0.610 | 0.458 | 0.614 |
| 2 | S EU | Oct – Feb | 0.765 | 0.578 | 0.775 |
| Mar – May | 0.765 | 0.578 | 0.775 |
| Jun – Sep | 0.688 | 0.518 | 0.694 |
| Sugar beet  2x50 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 30.108 | 23.188 | 31.134 |
| 2 | N EU | Oct – Feb | 1.508 | 1.147 | 1.539 |
| Mar – May | 0.972 | 0.732 | 0.983 |
| Jun – Sep | 0.972 | 0.732 | 0.983 |
| 2 | S EU | Oct – Feb | 1.329 | 1.009 | 1.353 |
| Mar – May | 1.329 | 1.009 | 1.353 |
| Jun – Sep | 1.151 | 0.870 | 1.168 |
| Sugar beet  2x50 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 30.108 | 23.188 | 31.134 |
| 2 | N EU | Oct – Feb | 1.242 | 0.948 | 1.273 |
| Mar – May | 0.724 | 0.548 | 0.735 |
| Jun – Sep | 0.724 | 0.548 | 0.735 |
| 2 | S EU | Oct – Feb | 1.069 | 0.815 | 1.094 |
| Mar – May | 1.069 | 0.815 | 1.094 |
| Jun – Sep | 0.897 | 0.681 | 0.914 |
| Bulb vegetables (flower bulbs and flower tubers)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 13.850 | 10.667 | 14.322 |
| 2 | N EU | Oct – Feb | 1.242 | 0.949 | 1.274 |
| Mar – May | 0.706 | 0.535 | 0.718 |
| Jun – Sep | 0.706 | 0.535 | 0.718 |
| 2 | S EU | Oct – Feb | 1.063 | 0.811 | 1.088 |
| Mar – May | 1.063 | 0.811 | 1.088 |
| Jun – Sep | 0.884 | 0.673 | 0.903 |
| Bulb vegetables (flower bulbs and flower tubers)  2x34 g a.s./ha  BBCH 20 | 2 | 1 | - | - | 20.474 | 15.768 | 21.171 |
| 2 | N EU | Oct – Feb | 0.987 | 0.750 | 1.007 |
| Mar – May | 0.646 | 0.486 | 0.652 |
| Jun – Sep | 0.646 | 0.486 | 0.652 |
| 2 | S EU | Oct – Feb | 0.874 | 0.662 | 0.889 |
| Mar – May | 0.874 | 0.662 | 0.889 |
| Jun – Sep | 0.760 | 0.574 | 0.771 |
| Bulb vegetables (flower bulbs and flower tubers)  2x34 g a.s./ha  BBCH 20  (single application) | 1 | 1 | - | - | 20.474 | 15.768 | 21.171 |
| 2 | N EU | Oct – Feb | 0.808 | 0.616 | 0.827 |
| Mar – May | 0.478 | 0.361 | 0.485 |
| Jun – Sep | 0.478 | 0.361 | 0.485 |
| 2 | S EU | Oct – Feb | 0.698 | 0.531 | 0.713 |
| Mar – May | 0.698 | 0.531 | 0.713 |
| Jun – Sep | 0.588 | 0.446 | 0.599 |
| ~~Bulb vegetables (flower bulbs and flower tubers)~~  ~~2x34 g a.s./ha~~  ~~BBCH 12~~ | ~~2~~ | ~~1~~ | ~~-~~ | ~~-~~ | ~~20.474~~ | ~~15.768~~ | ~~21.171~~ |
| ~~2~~ | ~~N EU~~ | ~~Oct – Feb~~ | ~~1.101~~ | ~~0.838~~ | ~~1.125~~ |
| ~~Mar – May~~ | ~~0.691~~ | ~~0.522~~ | ~~0.700~~ |
| ~~Jun – Sep~~ | ~~0.691~~ | ~~0.522~~ | ~~0.700~~ |
| ~~2~~ | ~~S EU~~ | ~~Oct – Feb~~ | ~~0.965~~ | ~~0.733~~ | ~~0.983~~ |
| ~~Mar – May~~ | ~~0.965~~ | ~~0.733~~ | ~~0.983~~ |
| ~~Jun – Sep~~ | ~~0.828~~ | ~~0.627~~ | ~~0.842~~ |
| Bulb vegetables (flower bulbs and flower tubers)  1~~2~~x34 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 20.474 | 15.768 | 21.171 |
| 2 | N EU | Oct – Feb | 0.918 | 0.701 | 0.942 |
| Mar – May | 0.522 | 0.395 | 0.531 |
| Jun – Sep | 0.522 | 0.395 | 0.531 |
| 2 | S EU | Oct – Feb | 0.786 | 0.599 | 0.805 |
| Mar – May | 0.786 | 0.599 | 0.805 |
| Jun – Sep | 0.654 | 0.497 | 0.668 |
| Leafy vegetables (floriculture, perennial nursery crops)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 13.850 | 10.667 | 14.322 |
| 2 | N EU | Oct – Feb | 1.093 | 0.834 | 1.119 |
| Mar – May | 0.646 | 0.489 | 0.656 |
| Jun – Sep | 0.646 | 0.489 | 0.656 |
| 2 | S EU | Oct – Feb | 0.944 | 0.719 | 0.965 |
| Mar – May | 0.944 | 0.719 | 0.965 |
| Jun – Sep | 0.795 | 0.604 | 0.810 |
| Leafy vegetables (floriculture, perennial nursery crops)  2x34 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 20.474 | 15.768 | 21.171 |
| 2 | N EU | Oct – Feb | 0.987 | 0.750 | 1.007 |
| Mar – May | 0.646 | 0.486 | 0.652 |
| Jun – Sep | 0.646 | 0.486 | 0.652 |
| 2 | S EU | Oct – Feb | 0.874 | 0.662 | 0.889 |
| Mar – May | 0.874 | 0.662 | 0.889 |
| Jun – Sep | 0.760 | 0.574 | 0.771 |
| Leafy vegetables (floriculture, perennial nursery crops)  2x34 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 20.474 | 15.768 | 21.171 |
| 2 | N EU | Oct – Feb | 0.808 | 0.616 | 0.827 |
| Mar – May | 0.478 | 0.361 | 0.485 |
| Jun – Sep | 0.478 | 0.361 | 0.485 |
| 2 | S EU | Oct – Feb | 0.698 | 0.531 | 0.713 |
| Mar – May | 0.698 | 0.531 | 0.713 |
| Jun – Sep | 0.588 | 0.446 | 0.599 |
| Pome fruit (early) (tree nursery)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 17.904 | 13.423 | 18.006 |
| 2 | N EU | Oct – Feb | 4.484 | 3.352 | 4.496 |
| Mar – May | 4.477 | 3.291 | 4.002 |
| Jun – Sep | 4.477 | 3.291 | 4.002 |
| 2 | S EU | Oct – Feb | 4.477 | 3.506 | 4.331 |
| Mar – May | 4.477 | 3.506 | 4.331 |
| Jun – Sep | 4.477 | 3.399 | 4.166 |
| Pome fruit (late)  (tree nursery)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 15.838 | 12.018 | 16.129 |
| 2 | N EU | Oct – Feb | 2.781 | 2.088 | 2.802 |
| Mar – May | 2.411 | 1.872 | 2.307 |
| Jun – Sep | 2.411 | 1.872 | 2.307 |
| 2 | S EU | Oct – Feb | 2.623 | 1.966 | 2.637 |
| Mar – May | 2.623 | 1.966 | 2.637 |
| Jun – Sep | 2.464 | 1.843 | 2.472 |
| Pome fruit (early)  (tree nursery)  2x34 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 26.466 | 19.842 | 26.618 |
| 2 | N EU | Oct – Feb | 5.102 | 4.055 | 4.987 |
| Mar – May | 5.102 | 3.808 | 4.609 |
| Jun – Sep | 5.102 | 3.808 | 4.609 |
| 2 | S EU | Oct – Feb | 5.102 | 3.973 | 4.861 |
| Mar – May | 5.102 | 3.973 | 4.861 |
| Jun – Sep | 5.102 | 3.890 | 4.735 |
| Pome fruit (early)  (tree nursery)  2x34 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 26.466 | 19.842 | 26.618 |
| 2 | N EU | Oct – Feb | 3.314 | 2.478 | 3.323 |
| Mar – May | 3.309 | 2.432 | 2.958 |
| Jun – Sep | 3.309 | 2.432 | 2.958 |
| 2 | S EU | Oct – Feb | 3.309 | 2.592 | 3.201 |
| Mar – May | 3.309 | 2.592 | 3.201 |
| Jun – Sep | 3.309 | 2.512 | 3.080 |
| Pome fruit (late)  (tree nursery)  2x34 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 23.413 | 17.766 | 23.842 |
| 2 | N EU | Oct – Feb | 2.687 | 2.013 | 2.700 |
| Mar – May | 2.424 | 1.896 | 2.322 |
| Jun – Sep | 2.424 | 1.896 | 2.322 |
| 2 | S EU | Oct – Feb | 2.566 | 1.919 | 2.574 |
| Mar – May | 2.566 | 1.919 | 2.574 |
| Jun – Sep | 2.444 | 1.825 | 2.448 |
| Pome fruit (late)  (tree nursery)  2x34 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 23.413 | 17.766 | 23.842 |
| 2 | N EU | Oct – Feb | 2.056 | 1.544 | 2.071 |
| Mar – May | 1.782 | 1.384 | 1.705 |
| Jun – Sep | 1.782 | 1.384 | 1.705 |
| 2 | S EU | Oct – Feb | 1.938 | 1.453 | 1.949 |
| Mar – May | 1.938 | 1.453 | 1.949 |
| Jun – Sep | 1.821 | 1.362 | 1.827 |

N EU / S EU = Northern/ Southern Europe.

a twa-time as required by ecotox.

PECsw/sed – FOCUS Step 3

Table 8.9‑5: FOCUS Step 3 PECSW and PECSED for acetamiprid following single / multiple application(s) on various crops

| Application pattern | Scenario FOCUS | Water­body | Acetamiprid | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Max PECSW (μg/L)\* | Dominant entry route | 21 d- PECSW,twa (µg/L)\* | Max PECSED (μg/kg)\* |
| Maize 1x60 g a.s./ha BBCH 51 | D3 | ditch | 0.315 | Spray drift | 0.016 | 0.095 |
| D4 | pond | 0.013 | Spray drift | 0.010 | 0.023 |
| D4 | stream | 0.282 | Spray drift | 0.003 | 0.032 |
| D5 | pond | 0.013 | Spray drift | 0.010 | 0.024 |
| D5 | stream | 0.308 | Spray drift | 0.006 | 0.055 |
| D6 | ditch | 0.310 | Spray drift | 0.006 | 0.054 |
| R1 | pond | 0.033 | Runoff | 0.025 | 0.060 |
| R1 | stream | 0.535 | Runoff | 0.015 | 0.156 |
| R2 | stream | 0.293 | Spray drift | 0.001 | 0.020 |
| R3 | stream | 0.308 | Spray drift | 0.020 | 0.164 |
| R4 | stream | 0.213 | Spray drift | 0.004 | 0.034 |
| Pome fruit (late)  1x80 g a.s./ha  BBCH 71 | D3 | ditch | 2.941 | Spray drift | 0.276 | 1.049 |
| D4 | pond | 0.132 | Spray drift | 0.100 | 0.212 |
| D4 | stream | 2.951 | Spray drift | 0.041 | 0.399 |
| D5 | pond | 0.132 | Spray drift | 0.103 | 0.220 |
| D5 | stream | 3.184 | Spray drift | 0.058 | 0.510 |
| R1 | pond | 0.132 | Spray drift | 0.097 | 0.199 |
| R1 | stream | 2.213 | Spray drift | 0.020 | 0.170 |
| R2 | stream | 3.026 | Spray drift | 0.015 | 0.196 |
| R3 | stream | 3.182 | Spray drift | 0.057 | 0.502 |
| R4 | Stream | 2.257 | Spray drift | 0.065 | 0.389 |
| Pome fruit  2x25 g a.s./ha  early application  BBCH 62 | D3 | ditch | 1.678 | Spray drift | 0.286 | 0.806 |
| D4 | pond | 0.185 | Spray drift | 0.143 | 0.321 |
| D4 | stream | 1.766 | Spray drift | 0.047 | 0.286 |
| D5 | pond | 0.180 | Spray drift | 0.143 | 0.338 |
| D5 | stream | 1.905 | Spray drift | 0.069 | 0.362 |
| R1 | pond | 0.174 | Spray drift | 0.134 | 0.305 |
| R1 | stream | 1.351 | Spray drift | 0.027 | 0.155 |
| R2 | stream | 1.810 | Spray drift | 0.018 | 0.137 |
| R3 | stream | 1.904 | Spray drift | 0.068 | 0.353 |
| R4 | stream | 1.350 | Spray drift | 0.021 | 0.165 |
| Pome fruit  2x25 g a.s./ha  early application  BBCH 62 (single application) | D3 | ditch | 1.948\* | Spray drift | 0.162 | 0.675 |
| D4 | pond | 0.118 | Spray drift | 0.090 | 0.190 |
| D4 | stream | 2.065\* | Spray drift | 0.027 | 0.273 |
| D5 | pond | 0.118 | Spray drift | 0.093 | 0.204 |
| D5 | stream | 2.230\* | Spray drift | 0.040 | 0.358 |
| R1 | pond | 0.118 | Spray drift | 0.089 | 0.184 |
| R1 | stream | 1.582\* | Spray drift | 0.019 | 0.180\* |
| R2 | stream | 2.121\* | Spray drift | 0.011 | 0.139\* |
| R3 | stream | 2.230\* | Spray drift | 0.040 | 0.358\* |
| R4 | stream | 1.546\* | Spray drift | 0.009 | 0.115 |
| Pome fruit  2x25 g a.s./ha  late application  pre-harvest | D3 | ditch | 0.729 | Spray drift | 0.142 | 0.385 |
| D4 | pond | 0.058 | Spray drift | 0.048 | 0.143 |
| D4 | stream | 0.722 | Spray drift | 0.009 | 0.072 |
| D5 | pond | 0.062 | Spray drift | 0.049 | 0.123 |
| D5 | stream | 0.797 | Spray drift | 0.029 | 0.164 |
| R1 | pond | 0.056 | Spray drift | 0.046 | 0.136 |
| R1 | stream | 0.565 | Spray drift | 0.011 | 0.075 |
| R2 | stream | 0.757 | Spray drift | 0.004 | 0.055 |
| R3 | stream | 0.796 | Spray drift | 0.022 | 0.160 |
| R4 | stream | 0.565 | Spray drift | 0.034 | 0.146 |
| Pome fruit  2x25 g a.s./ha  late application  pre-harvest  (single application) | D3 | ditch | 0.919\* | Spray drift | 0.087 | 0.355 |
| D4 | pond | 0.041 | Spray drift | 0.034 | 0.091 |
| D4 | stream | 0.901\* | Spray drift | 0.007 | 0.082\* |
| D5 | pond | 0.041 | Spray drift | 0.032 | 0.075 |
| D5 | stream | 0.995\* | Spray drift | 0.018 | 0.169\* |
| R1 | pond | 0.041 | Spray drift | 0.032 | 0.080 |
| R1 | stream | 0.706\* | Spray drift | 0.007 | 0.083\* |
| R2 | stream | 0.946\* | Spray drift | 0.005\* | 0.063\* |
| R3 | stream | 0.994\* | Spray drift | 0.020 | 0.165\* |
| R4 | stream | 0.705\* | Spray drift | 0.011 | 0.082 |
| Potato  (maize as surrogate for D5 & R4)  1x36 g a.s./ha  BBCH 12 | D3 | ditch | 0.189 | Spray drift | 0.010 | 0.062 |
| D4 | pond | 0.008 | Spray drift | 0.006 | 0.015 |
| D4 | stream | 0.161 | Spray drift | 0.001 | 0.009 |
| D5 | pond | 0.008 | Spray drift | 0.006 | 0.015 |
| D5 | stream | 0.169 | Spray drift | 0.001 | 0.007 |
| D6 (1st) | ditch | 0.186 | Spray drift | 0.003 | 0.032 |
| D6 (2nd) | ditch | 0.185 | Spray drift | 0.003 | 0.028 |
| R1 | pond | 0.010 | Runoff | 0.008 | 0.024 |
| R1 | stream | 0.165 | Runoff | 0.006 | 0.032 |
| R2 | stream | 0.173 | Spray drift | 0.004 | 0.019 |
| R3 | stream | 0.209 | Runoff | 0.013 | 0.089 |
| R4 | stream | 0.331 | Runoff | 0.014 | 0.113 |
| Potato  (maize as surrogate for D5 & R4)  1x36 g a.s./ha  BBCH 79 | D3 | ditch | 0.189 | Spray drift | 0.010 | 0.060 |
| D4 | pond | 0.008 | Spray drift | 0.006 | 0.016 |
| D4 | stream | 0.142 | Spray drift | < 0.001 | 0.003 |
| D5 | pond | 0.008 | Spray drift | 0.006 | 0.015 |
| D5 | stream | 0.185 | Spray drift | 0.003 | 0.034 |
| D6 (1st) | ditch | 0.188 | Spray drift | 0.005 | 0.044 |
| D6 (2nd) | ditch | 0.189 | Spray drift | 0.010 | 0.062 |
| R1 | pond | 0.024 | Runoff | 0.018 | 0.042 |
| R1 | stream | 0.408 | Runoff | 0.012 | 0.122 |
| R2 | stream | 0.176 | Spray drift | 0.002 | 0.028 |
| R3 | stream | 0.185 | Spray drift | 0.010 | 0.096 |
| R4 | stream | 0.509 | Runoff | 0.024 | 0.177 |
| Spring cereals  (winter cereals as surrogate for R1, R3)  2x35 g a.s./ha  BBCH 40 | D1 | ditch | 0.322 | Spray drift | 0.221 | 0.487 |
| D1 | stream | 0.170 | Spray drift | 0.015 | 0.064 |
| D3 | ditch | 0.194 | Spray drift | 0.023 | 0.083 |
| D4 | pond | 0.009 | Spray drift | 0.007 | 0.023 |
| D4 | stream | 0.165 | Spray drift | 0.002 | 0.024 |
| D5 | pond | 0.011 | Spray drift | 0.008 | 0.026 |
| D5 | stream | 0.167 | Spray drift | 0.001 | 0.011 |
| R1 | pond | 0.039 | Runoff | 0.030 | 0.084 |
| R1 | stream | 0.282 | Runoff | 0.012 | 0.174 |
| R3 | stream | 0.604 | Runoff | 0.034 | 0.250 |
| R4 | stream | 0.397 | Runoff | 0.026 | 0.119 |
| Spring cereals  (winter cereals as surrogate for R1, R3)  2x35 g a.s./ha  BBCH 40  (single application) | D1 | ditch | 0.225 | Spray drift | 0.163 | 0.305 |
| D1 | stream | 0.196\* | Spray drift | 0.009 | 0.061 |
| D3 | ditch | 0.222\* | Spray drift | 0.012 | 0.072 |
| D4 | pond | 0.008 | Spray drift | 0.006 | 0.016 |
| D4 | stream | 0.181\* | Spray drift | 0.001 | 0.011 |
| D5 | pond | 0.008 | Spray drift | 0.006 | 0.017 |
| D5 | stream | 0.193\* | Spray drift | 0.001 | 0.010 |
| R1 | pond | 0.015 | Runoff | 0.013 | 0.034 |
| R1 | stream | 0.267 | Runoff | 0.011 | 0.065 |
| R3 | stream | 0.206 | Spray drift | 0.009 | 0.056 |
| R4 | stream | 0.397 | Runoff | 0.027 | 0.119 |
| Spring cereals (winter cereals as surrogate for R1, R3)  2x35 g a.s./ha BBCH 12 | D1 | ditch | 0.197 | Spray drift | 0.143 | 0.288 |
| D1 | stream | 0.170 | Spray drift | 0.007 | 0.053 |
| D3 | ditch | 0.194 | Spray drift | 0.011 | 0.073 |
| D4 | pond | 0.010 | Spray drift | 0.007 | 0.024 |
| D4 | stream | 0.163 | Spray drift | 0.001 | 0.019 |
| D5 | pond | 0.010 | Spray drift | 0.008 | 0.026 |
| D5 | stream | 0.167 | Spray drift | 0.001 | 0.010 |
| R1 | pond | 0.010 | Spray drift | 0.008 | 0.032 |
| R1 | stream | 0.167 | Runoff | 0.005 | 0.037 |
| R3 | stream | 0.337 | Runoff | 0.019 | 0.155 |
| R4 | stream | 0.397 | Runoff | 0.026 | 0.120 |
| Spring cereals (winter cereals as surrogate for R1, R3)  2x35 g a.s./ha BBCH 12  (single application) | D1 | ditch | 0.223\* | Spray drift | 0.030 | 0.109 |
| D1 | stream | 0.179\* | Spray drift | 0.001 | 0.009 |
| D3 | ditch | 0.222\* | Spray drift | 0.010 | 0.066 |
| D4 | pond | 0.008 | Spray drift | 0.006 | 0.017 |
| D4 | stream | 0.170\* | Spray drift | < 0.001 | 0.006 |
| D5 | pond | 0.008 | Spray drift | 0.006 | 0.018 |
| D5 | stream | 0.176\* | Spray drift | < 0.001 | 0.005 |
| R1 | pond | 0.008 | Spray drift | 0.006 | 0.019 |
| R1 | stream | 0.146 | Spray drift | 0.003 | 0.018 |
| R3 | stream | 0.205 | Spray drift | 0.008 | 0.055 |
| R4 | stream | 0.146 | Spray drift | 0.001 | 0.016 |
| Winter cereals  2x36 g a.s./ha  BBCH 40 | D1 | ditch | 0.207 | Spray drift | 0.140 | 0.330 |
| D1 | stream | 0.173 | Spray drift | 0.007 | 0.043 |
| D2 | ditch | 0.202 | Spray drift | 0.098 | 0.229 |
| D2 | stream | 0.177 | Spray drift | 0.051 | 0.170 |
| D3 | ditch | 0.200 | Spray drift | 0.023 | 0.085 |
| D4 | pond | 0.012 | Spray drift | 0.010 | 0.028 |
| D4 | stream | 0.157 | Spray drift | 0.001 | 0.008 |
| D5 | pond | 0.011 | Spray drift | 0.009 | 0.029 |
| D5 | stream | 0.174 | Spray drift | 0.001 | 0.012 |
| D6 | ditch | 0.201 | Spray drift | 0.031 | 0.110 |
| R1 | pond | 0.040 | Runoff | 0.031 | 0.086 |
| R1 | stream | 0.291 | Runoff | 0.013 | 0.179 |
| R3 | stream | 0.623 | Runoff | 0.035 | 0.257 |
| R4 | stream | 1.219 | Runoff | 0.054 | 0.370 |
| Winter cereals  2x36 g a.s./ha  BBCH 40  (single application) | D1 | ditch | 0.230\* | Spray drift | 0.103 | 0.255 |
| D1 | stream | 0.197\* | Spray drift | 0.002 | 0.027 |
| D2 | ditch | 0.231\* | Spray drift | 0.067 | 0.225 |
| D2 | stream | 0.204\* | Spray drift | 0.057\* | 0.195\* |
| D3 | ditch | 0.228\* | Spray drift | 0.013 | 0.074 |
| D4 | pond | 0.008 | Spray drift | 0.007 | 0.018 |
| D4 | stream | 0.174\* | Spray drift | < 0.001 | 0.006 |
| D5 | pond | 0.008 | Spray drift | 0.006 | 0.018 |
| D5 | stream | 0.182\* | Spray drift | < 0.001 | 0.005 |
| D6 | ditch | 0.228\* | Spray drift | 0.012 | 0.071 |
| R1 | pond | 0.016 | Runoff | 0.013 | 0.035 |
| R1 | stream | 0.275 | Runoff | 0.011 | 0.067 |
| R3 | stream | 0.212 | Spray drift | 0.009 | 0.058 |
| R4 | stream | 0.224 | Runoff | 0.011 | 0.076 |
| Winter cereals  1x30 g a.s./ha  BBCH 12 | D1 | ditch | 0.193 | Spray drift | 0.147 | 0.322 |
| D1 | stream | 0.168 | Spray drift | 0.020 | 0.071 |
| D2 | ditch | 0.191 | Spray drift | 0.038 | 0.127 |
| D2 | stream | 0.155 | Spray drift | 0.009 | 0.024 |
| D3 | ditch | 0.189 | Spray drift | 0.007 | 0.050 |
| D4 | pond | 0.007 | Spray drift | 0.005 | 0.016 |
| D4 | stream | 0.164 | Spray drift | 0.002 | 0.025 |
| D5 | pond | 0.007 | Spray drift | 0.006 | 0.017 |
| D5 | stream | 0.177 | Spray drift | 0.003 | 0.033 |
| D6 | ditch | 0.192 | Spray drift | 0.073 | 0.162 |
| R1 | pond | 0.011 | Runoff | 0.009 | 0.028 |
| R1 | stream | 0.467 | Runoff | 0.011 | 0.103 |
| R3 | stream | 0.966 | Runoff | 0.030 | 0.230 |
| R4 | stream | 0.198 | Runoff | 0.008 | 0.054 |
| Oilseed rape (winter)  (winter cereals as surrogate for R4)  2x60 g a.s./ha  BBCH 31 | D2 | ditch | 0.337 | Spray drift | 0.116 | 0.310 |
| D2 | stream | 0.296 | Spray drift | 0.039 | 0.194 |
| D3 | ditch | 0.332 | Spray drift | 0.028 | 0.114 |
| D4 | pond | 0.019 | Spray drift | 0.016 | 0.048 |
| D4 | stream | 0.245 | Spray drift | 0.001 | 0.007 |
| D5 | pond | 0.017 | Spray drift | 0.014 | 0.047 |
| D5 | stream | 0.266 | Spray drift | 0.001 | 0.009 |
| R1 | pond | 0.024 | Runoff | 0.020 | 0.062 |
| R1 | stream | 0.686 | Runoff | 0.025 | 0.157 |
| R3 | stream | 0.404 | Runoff | 0.019 | 0.106 |
| R4 | stream | 0.401 | Runoff | 0.019 | 0.133 |
| Oilseed rape (winter)  (winter cereals as surrogate for R4)  2x60 g a.s./ha  BBCH 31  (single application) | D2 | ditch | 0.385\* | Spray drift | 0.072 | 0.257 |
| D2 | stream | 0.343\* | Spray drift | 0.043\* | 0.222\* |
| D3 | ditch | 0.379\* | Spray drift | 0.015 | 0.101 |
| D4 | pond | 0.013 | Spray drift | 0.011 | 0.031 |
| D4 | stream | 0.284\* | Spray drift | 0.001 | 0.008 |
| D5 | pond | 0.013 | Spray drift | 0.011 | 0.030 |
| D5 | stream | 0.303\* | Spray drift | 0.001 | 0.008 |
| R1 | pond | 0.013 | Spray drift | 0.011 | 0.034 |
| R1 | stream | 0.250 | Spray drift | 0.009 | 0.057 |
| R3 | stream | 0.404 | Runoff | 0.015 | 0.107 |
| R4 | stream | 0.252 | Spray drift | 0.003 | 0.030 |
| Oilseed rape (winter)  (winter cereals as surrogate for R4)  1x60 g a.s./ha  BBCH 11 | D2 | ditch | 0.385 | Spray drift | 0.155 | 0.420 |
| D2 | stream | 0.343 | Spray drift | 0.135 | 0.375 |
| D3 | ditch | 0.382 | Spray drift | 0.034 | 0.152 |
| D4 | pond | 0.013 | Spray drift | 0.010 | 0.030 |
| D4 | stream | 0.329 | Spray drift | 0.005 | 0.049 |
| D5 | pond | 0.013 | Spray drift | 0.010 | 0.029 |
| D5 | stream | 0.355 | Spray drift | 0.007 | 0.063 |
| R1 | pond | 0.013 | Spray drift | 0.010 | 0.027 |
| R1 | stream | 0.251 | Spray drift | 0.003 | 0.030 |
| R3 | stream | 0.483 | Runoff | 0.026 | 0.161 |
| R4 | stream | 0.405 | Runoff | 0.016 | 0.106 |
| Oilseed rape (spring)  (legumes as surrogate for R3 & R4)  2x60 g a.s./ha  BBCH 31 | D1 | ditch | 0.603 | Spray drift | 0.441 | 0.840 |
| D1 | stream | 0.291 | Spray drift | 0.025 | 0.114 |
| D3 | ditch | 0.333 | Spray drift | 0.041 | 0.151 |
| D4 | pond | 0.020 | Spray drift | 0.016 | 0.041 |
| D4 | stream | 0.273 | Spray drift | 0.003 | 0.023 |
| D5 | pond | 0.018 | Spray drift | 0.015 | 0.043 |
| D5 | stream | 0.287 | Spray drift | 0.002 | 0.018 |
| R1 | pond | 0.047 | Spray drift | 0.039 | 0.107 |
| R1 | stream | 0.765 | Runoff | 0.032 | 0.215 |
| R3 | stream | 0.643 | Runoff | 0.026 | 0.164 |
| R4 | stream | 1.054 | Runoff | 0.054 | 0.316 |
| Oilseed rape (spring)  (legumes as surrogate for R3 & R4)  2x60 g a.s./ha  BBCH 31  (single application) | D1 | ditch | 0.385 | Spray drift | 0.281 | 0.505 |
| D1 | stream | 0.337\* | Spray drift | 0.015 | 0.100 |
| D3 | ditch | 0.381\* | Spray drift | 0.023 | 0.125 |
| D4 | pond | 0.013 | Spray drift | 0.010 | 0.026 |
| D4 | stream | 0.312\* | Spray drift | 0.001 | 0.019 |
| D5 | pond | 0.013 | Spray drift | 0.011 | 0.028 |
| D5 | stream | 0.331\* | Spray drift | 0.001 | 0.018 |
| R1 | pond | 0.043 | Runoff | 0.037 | 0.087 |
| R1 | stream | 0.765 | Runoff | 0.026 | 0.216 |
| R3 | stream | 0.643 | Runoff | 0.022 | 0.165 |
| R4 | stream | 1.054 | Runoff | 0.053 | 0.316 |
| Sugar beet  (maize as surrogate for D5 & R4)  2x50 g a.s./ha  BBCH 12 | D3 | ditch | 0.228 | Spray drift | 0.026 | 0.097 |
| D4 | pond | 0.016 | Spray drift | 0.013 | 0.034 |
| D4 | stream | 0.189 | Spray drift | 0.001 | 0.010 |
| D5 | pond | 0.015 | Spray drift | 0.012 | 0.033 |
| D5 | stream | 0.213 | Spray drift | 0.002 | 0.020 |
| R1 | pond | 0.016 | Spray drift | 0.013 | 0.038 |
| R1 | stream | 0.156 | Spray drift | 0.004 | 0.025 |
| R3 | stream | 0.328 | Runoff | 0.023 | 0.139 |
| R4 | stream | 0.884 | Runoff | 0.053 | 0.307 |
| Sugar beet  (maize as surrogate for D5 & R4)  2x50 g a.s./ha  BBCH 12 (single application) | D3 | ditch | 0.262\* | Spray drift | 0.015 | 0.086 |
| D4 | pond | 0.011 | Spray drift | 0.008 | 0.022 |
| D4 | stream | 0.214\* | Spray drift | 0.001 | 0.008 |
| D5 | pond | 0.011 | Spray drift | 0.008 | 0.021 |
| D5 | stream | 0.234\* | Spray drift | 0.001 | 0.010 |
| R1 | pond | 0.011 | Spray drift | 0.008 | 0.023 |
| R1 | stream | 0.181\* | Spray drift | 0.002 | 0.020 |
| R3 | stream | 0.256 | Spray drift | 0.007 | 0.043 |
| R4 | stream | 0.469 | Runoff | 0.020 | 0.157 |
| Bulb vegetables  (legumes as surrogate for D5)  (flower bulbs & flower tubers) 1x46 g a.s./ha  BBCH 12 | D3 | ditch | 0.292 | Spray drift | 0.016 | 0.093 |
| D4 | pond | 0.010 | Spray drift | 0.008 | 0.020 |
| D4 | stream | 0.224 | Spray drift | 0.001 | 0.008 |
| D5 | pond | 0.010 | Spray drift | 0.008 | 0.022 |
| D5 | stream | 0.201 | Spray drift | < 0.001 | 0.005 |
| D6 (1st) | ditch | 0.293 | Spray drift | 0.036 | 0.136 |
| D6 (2nd) | ditch | 0.294 | Spray drift | 0.103 | 0.214 |
| R1 | pond | 0.014 | Runoff | 0.011 | 0.032 |
| R1 | stream | 0.251 | Runoff | 0.008 | 0.047 |
| R2 | stream | 0.254 | Spray drift | 0.005 | 0.030 |
| R3 | stream | 0.270 | Spray drift | 0.004 | 0.040 |
| R4 | stream | 0.659 | Runoff | 0.028 | 0.212 |
| Bulb vegetables  (legumes as surrogate for D5)  (flower bulbs & flower tubers) 2x34 g a.s./ha  BBCH 20 | D3 | ditch | 0.189 | Spray drift | 0.020 | 0.077 |
| D4 | pond | 0.011 | Spray drift | 0.008 | 0.021 |
| D4 | stream | 0.144 | Spray drift | 0.001 | 0.006 |
| D5 | pond | 0.010 | Spray drift | 0.009 | 0.026 |
| D5 | stream | 0.140 | Spray drift | 0.001 | 0.008 |
| D6 (1st) | ditch | 0.270 | Spray drift | 0.119 | 0.255 |
| D6 (2nd) | ditch | 0.190 | Spray drift | 0.027 | 0.101 |
| R1 | pond | 0.035 | Runoff | 0.030 | 0.075 |
| R1 | stream | 0.383 | Runoff | 0.023 | 0.114 |
| R2 | stream | 0.165 | Spray drift | 0.006 | 0.050 |
| R3 | stream | 0.366 | Runoff | 0.018 | 0.102 |
| R4 | stream | 0.740 | Runoff | 0.037 | 0.233 |
| Bulb vegetables  (legumes as surrogate for D5)  (flower bulbs & flower tubers)  2x34 g a.s./ha  BBCH 20 (single application) | D3 | ditch | 0.215\* | Spray drift | 0.011 | 0.067 |
| D4 | pond | 0.007 | Spray drift | 0.005 | 0.013 |
| D4 | stream | 0.164\* | Spray drift | < 0.001 | 0.005 |
| D5 | pond | 0.007 | Spray drift | 0.006 | 0.017 |
| D5 | stream | 0.148\* | Spray drift | < 0.001 | 0.004 |
| D6 (1st) | ditch | 0.217 | Spray drift | 0.069 | 0.170 |
| D6 (2nd) | ditch | 0.213\* | Spray drift | 0.005 | 0.041 |
| R1 | pond | 0.030 | Runoff | 0.023 | 0.056 |
| R1 | stream | 0.383 | Runoff | 0.016 | 0.099 |
| R2 | stream | 0.191 | Spray drift | 0.005 | 0.050 |
| R3 | stream | 0.366 | Runoff | 0.015 | 0.103 |
| R4 | stream | 0.740 | Runoff | 0.037 | 0.233 |
| ~~Bulb vegetables~~  ~~(legumes as surrogate for D5)~~  ~~(flower bulbs & flower tubers)~~  ~~2x34 g a.s./ha~~  ~~BBCH 12~~ | ~~D3~~ | ~~ditch~~ | ~~0.189~~ | ~~Spray drift~~ | ~~0.021~~ | ~~0.081~~ |
| ~~D4~~ | ~~pond~~ | ~~0.011~~ | ~~Spray drift~~ | ~~0.009~~ | ~~0.024~~ |
| ~~D4~~ | ~~stream~~ | ~~0.143~~ | ~~Spray drift~~ | ~~0.001~~ | ~~0.005~~ |
| ~~D5~~ | ~~pond~~ | ~~0.010~~ | ~~Spray drift~~ | ~~0.009~~ | ~~0.026~~ |
| ~~D5~~ | ~~stream~~ | ~~0.140~~ | ~~Spray drift~~ | ~~0.001~~ | ~~0.008~~ |
| ~~D6 (1~~~~st~~~~)~~ | ~~ditch~~ | ~~0.194~~ | ~~Spray drift~~ | ~~0.062~~ | ~~0.155~~ |
| ~~D6 (2~~~~nd~~~~)~~ | ~~ditch~~ | ~~0.492~~ | ~~Drainage~~ | ~~0.128~~ | ~~0.351~~ |
| ~~R1~~ | ~~pond~~ | ~~0.029~~ | ~~Runoff~~ | ~~0.024~~ | ~~0.060~~ |
| ~~R1~~ | ~~stream~~ | ~~0.441~~ | ~~Runoff~~ | ~~0.016~~ | ~~0.126~~ |
| ~~R2~~ | ~~stream~~ | ~~0.163~~ | ~~Spray drift~~ | ~~0.004~~ | ~~0.026~~ |
| ~~R3~~ | ~~stream~~ | ~~0.173~~ | ~~Spray drift~~ | ~~0.006~~ | ~~0.040~~ |
| ~~R4~~ | ~~stream~~ | ~~0.738~~ | ~~Runoff~~ | ~~0.048~~ | ~~0.272~~ |
| Bulb vegetables  (legumes as surrogate for D5)  (flower bulbs & flower tubers)  1 ~~2~~x34 g a.s./ha  BBCH 12 (single application) | D3 | ditch | 0.216\* | Spray drift | 0.012 | 0.070 |
| D4 | pond | 0.007 | Spray drift | 0.006 | 0.015 |
| D4 | stream | 0.165\* | Spray drift | < 0.001 | 0.006\* |
| D5 | pond | 0.007 | Spray drift | 0.006 | 0.017 |
| D5 | stream | 0.148\* | Spray drift | < 0.001 | 0.004 |
| D6 (1st) | ditch | 0.217\* | Spray drift | 0.026 | 0.102 |
| D6 (2nd) | ditch | 0.217 | Spray drift | 0.074 | 0.161 |
| R1 | pond | 0.010 | Runoff | 0.008 | 0.024 |
| R1 | stream | 0.181 | Runoff | 0.006 | 0.035 |
| R2 | stream | 0.188\* | Spray drift | 0.004 | 0.022 |
| R3 | stream | 0.199\* | Spray drift | 0.003 | 0.030 |
| R4 | stream | 0.479 | Runoff | 0.021 | 0.157 |
| Leafy vegetables (1st)  (legumes as surrogate for D5)  (floriculture & perennial nursery crops)  1x46 g a.s./ha  BBCH 12 | D3 | ditch | 0.292 | Spray drift | 0.016 | 0.092 |
| D4 | pond | 0.010 | Spray drift | 0.008 | 0.019 |
| D4 | stream | 0.236 | Spray drift | 0.001 | 0.013 |
| D5 | pond | 0.010 | Spray drift | 0.008 | 0.022 |
| D5 | stream | 0.201 | Spray drift | < 0.001 | 0.005 |
| D6 | ditch | 0.286 | Spray drift | 0.004 | 0.044 |
| R1 | pond | 0.010 | Spray drift | 0.008 | 0.022 |
| R1 | stream | 0.192 | Spray drift | 0.002 | 0.022 |
| R2 | stream | 0.254 | Spray drift | 0.005 | 0.034 |
| R3 | stream | 0.270 | Spray drift | 0.004 | 0.040 |
| R4 | stream | 0.655 | Runoff | 0.029 | 0.214 |
| Leafy vegetables (1st)  (legumes as surrogate for D5)  (floriculture & perennial nursery crops)2x34 g a.s./ha  BBCH 12 | D3 | ditch | 0.189 | Spray drift | 0.021 | 0.079 |
| D4 | pond | 0.010 | Spray drift | 0.007 | 0.022 |
| D4 | stream | 0.151 | Spray drift | 0.001 | 0.008 |
| D5 | pond | 0.010 | Spray drift | 0.009 | 0.026 |
| D5 | stream | 0.140 | Spray drift | 0.001 | 0.008 |
| D6 | ditch | 0.186 | Spray drift | 0.006 | 0.040 |
| R1 | pond | 0.015 | Runoff | 0.012 | 0.037 |
| R1 | stream | 0.151 | Runoff | 0.005 | 0.047 |
| R2 | stream | 0.163 | Spray drift | 0.004 | 0.032 |
| R3 | stream | 0.174 | Spray drift | 0.009 | 0.058 |
| R4 | stream | 0.630 | Runoff | 0.046 | 0.241 |
| Leafy vegetables (1st)  (legumes as surrogate for D5)  (floriculture & perennial nursery crops)2x34 g a.s./ha  BBCH 12 (single application) | D3 | ditch | 0.216\* | Spray drift | 0.012 | 0.070 |
| D4 | pond | 0.007 | Spray drift | 0.006 | 0.015 |
| D4 | stream | 0.174\* | Spray drift | 0.001 | 0.009\* |
| D5 | pond | 0.007 | Spray drift | 0.006 | 0.017 |
| D5 | stream | 0.148\* | Spray drift | < 0.001 | 0.004 |
| D6 | ditch | 0.212\* | Spray drift | 0.003 | 0.033 |
| R1 | pond | 0.007 | Spray drift | 0.006 | 0.017 |
| R1 | stream | 0.142 | Spray drift | 0.002 | 0.016 |
| R2 | stream | 0.188\* | Spray drift | 0.004 | 0.025 |
| R3 | stream | 0.200\* | Spray drift | 0.003 | 0.030 |
| R4 | stream | 0.475 | Runoff | 0.021 | 0.158 |
| Pome fruit  (tree nursery crops)  1x46 g a.s./ha  early application  BBCH 12 | D3 | ditch | 3.572 | Spray drift | 0.195 | 0.971 |
| D4 | pond | 0.217 | Spray drift | 0.179 | 0.399 |
| D4 | stream | 3.442 | Spray drift | 0.009 | 0.132 |
| D5 | pond | 0.217 | Spray drift | 0.180 | 0.406 |
| D5 | stream | 3.543 | Spray drift | 0.007 | 0.098 |
| R1 | pond | 0.217 | Spray drift | 0.174 | 0.371 |
| R1 | stream | 2.889 | Spray drift | 0.023 | 0.275 |
| R2 | stream | 3.826 | Spray drift | 0.015 | 0.198 |
| R3 | stream | 4.087 | Spray drift | 0.064 | 0.580 |
| R4 | stream | 2.906 | Spray drift | 0.031 | 0.310 |
| Pome fruit  (tree nursery crops)  1x46 g a.s./ha  late application  up to BBCH 91 | D3 | ditch | 1.697 | Spray drift | 0.382 | 0.920 |
| D4 | pond | 0.076 | Spray drift | 0.059 | 0.142 |
| D4 | stream | 1.657 | Spray drift | 0.012 | 0.144 |
| D5 | pond | 0.076 | Spray drift | 0.058 | 0.133 |
| D5 | stream | 1.831 | Spray drift | 0.034 | 0.301 |
| R1 | pond | 0.076 | Spray drift | 0.057 | 0.126 |
| R1 | stream | 1.298 | Spray drift | 0.013 | 0.149 |
| R2 | stream | 1.740 | Spray drift | 0.009 | 0.115 |
| R3 | stream | 1.830 | Spray drift | 0.048 | 0.296 |
| R4 | stream | 1.298 | Spray drift | 0.028 | 0.148 |
| Pome fruit  (tree nursery crops)  2x34 g a.s./ha  early application  BBCH 12 | D3 | ditch | 2.273 | Spray drift | 0.260 | 0.819 |
| D4 | pond | 0.216 | Spray drift | 0.173 | 0.477 |
| D4 | stream | 2.298 | Spray drift | 0.012 | 0.157 |
| D5 | pond | 0.249 | Spray drift | 0.209 | 0.506 |
| D5 | stream | 2.435 | Spray drift | 0.015 | 0.146 |
| R1 | pond | 0.260 | Spray drift | 0.208 | 0.465 |
| R1 | stream | 1.823 | Spray drift | 0.026 | 0.176 |
| R2 | stream | 2.418 | Spray drift | 0.010 | 0.140 |
| R3 | stream | 2.579 | Spray drift | 0.088 | 0.447 |
| R4 | stream | 1.833 | Spray drift | 0.044 | 0.233 |
| Pome fruit  (tree nursery crops)  2x34 g a.s./ha  early application  BBCH 12  (single application) | D3 | ditch | 2.640\* | Spray drift | 0.144 | 0.732 |
| D4 | pond | 0.161 | Spray drift | 0.132 | 0.301 |
| D4 | stream | 2.544\* | Spray drift | 0.007 | 0.098 |
| D5 | pond | 0.161 | Spray drift | 0.133 | 0.306 |
| D5 | stream | 2.619\* | Spray drift | 0.005 | 0.072 |
| R1 | pond | 0.161 | Spray drift | 0.128 | 0.279 |
| R1 | stream | 2.135\* | Spray drift | 0.017 | 0.205\* |
| R2 | stream | 2.828\* | Spray drift | 0.011\* | 0.147\* |
| R3 | stream | 3.020\* | Spray drift | 0.047 | 0.435 |
| R4 | stream | 2.148\* | Spray drift | 0.023 | 0.232 |
| Pome fruit  (tree nursery crops)  2x34 g a.s./ha  late application  up to BBCH 91 (Aug) | D3 | ditch | 1.141 | Spray drift | 0.479 | 0.947 |
| D4 | pond | 0.080 | Spray drift | 0.065 | 0.178 |
| D4 | stream | 0.981 | Spray drift | 0.012 | 0.086 |
| D5 | pond | 0.085 | Spray drift | 0.067 | 0.164 |
| D5 | stream | 1.084 | Spray drift | 0.040 | 0.221 |
| R1 | pond | 0.070 | Spray drift | 0.055 | 0.160 |
| R1 | stream | 0.768 | Spray drift | 0.008 | 0.099 |
| R2 | stream | 1.030 | Spray drift | 0.011 | 0.080 |
| R3 | stream | 1.083 | Spray drift | 0.059 | 0.250 |
| R4 | stream | 0.768 | Spray drift | 0.018 | 0.111 |
| Pome fruit  (tree nursery crops)  2x34 g a.s./ha  late application  up to BBCH 91 (Aug) *(single application)* | D3 | ditch | 1.254\* | Spray drift | 0.282 | 0.693 |
| D4 | pond | 0.056 | Spray drift | 0.044 | 0.107 |
| D4 | stream | 1.225\* | Spray drift | 0.009 | 0.107\* |
| D5 | pond | 0.056 | Spray drift | 0.043 | 0.100 |
| D5 | stream | 1.353\* | Spray drift | 0.025 | 0.226\* |
| R1 | pond | 0.056 | Spray drift | 0.042 | 0.095 |
| R1 | stream | 0.960\* | Spray drift | 0.010\* | 0.111\* |
| R2 | stream | 1.286\* | Spray drift | 0.007 | 0.086\* |
| R3 | stream | 1.352\* | Spray drift | 0.035 | 0.222 |
| R4 | stream | 0.959\* | Spray drift | 0.020\* | 0.111 |

\* Maxima resulting from single application are marked with \*.

PECsw/sed – FOCUS Step 4

Table 8.9‑6: FOCUS Step 4 PECsw for acetamiprid following single / multiple application(s) on various crops

| PECSW (µg/L) | Scenario | STEP 4 acetamiprid | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nozzle**  **reduction** | **Vegetative strip (m)** | **None** | **None** | **None** | **None** | **None** | **10** | **10  (VFSmod)** | **20** |
| **No spray buffer (m)** | **Edge of field** | **5** | **10** | **15** | **20** | **10** | **15** | **20** |
| ***Maize, 1x60 g a.s./ha, BBCH 51*** | | | | | | | | | |
| None | D3 ditch | - | 0.103 | 0.055 | 0.037 | 0.028 | 0.055 | 0.037 | 0.028 |
| 50 % | 0.157 | 0.052 | 0.027 | 0.019 | 0.014 | 0.027 | 0.019 | 0.014 |
| 75 % | 0.079 | 0.026 | 0.014 | 0.009 | 0.007 | 0.014 | 0.009 | 0.007 |
| 90 % | 0.031 | 0.010 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| None | D4 pond | - | 0.011 | 0.008 | 0.007 | 0.005 | 0.008 | 0.007 | 0.005 |
| 50 % | 0.006 | 0.006 | 0.004 | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 |
| 75 % | 0.003 | 0.003 | 0.002 | 0.002 | 0.001 | 0.002 | 0.002 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| None | D4 stream | - | 0.119 | 0.063 | 0.043 | 0.033 | 0.063 | 0.043 | 0.033 |
| 50 % | 0.141 | 0.059 | 0.031 | 0.021 | 0.016 | 0.031 | 0.021 | 0.016 |
| 75 % | 0.070 | 0.030 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 90 % | 0.028 | 0.012 | 0.006 | 0.004 | 0.003 | 0.006 | 0.004 | 0.003 |
| None | D5 pond | - | 0.011 | 0.008 | 0.007 | 0.005 | 0.008 | 0.007 | 0.005 |
| 50 % | 0.006 | 0.006 | 0.004 | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 |
| 75 % | 0.003 | 0.003 | 0.002 | 0.002 | 0.001 | 0.002 | 0.002 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| None | D5 stream | - | 0.130 | 0.069 | 0.047 | 0.036 | 0.069 | 0.047 | 0.036 |
| 50 % | 0.154 | 0.065 | 0.034 | 0.023 | 0.018 | 0.034 | 0.023 | 0.018 |
| 75 % | 0.077 | 0.032 | 0.017 | 0.012 | 0.009 | 0.017 | 0.012 | 0.009 |
| 90 % | 0.031 | 0.013 | 0.007 | 0.005 | 0.004 | 0.007 | 0.005 | 0.004 |
| None | D6 ditch | - | 0.102 | 0.054 | 0.037 | 0.028 | 0.054 | 0.037 | 0.028 |
| 50 % | 0.155 | 0.051 | 0.027 | 0.018 | 0.014 | 0.027 | 0.018 | 0.014 |
| 75 % | 0.078 | 0.025 | 0.013 | 0.009 | 0.007 | 0.013 | 0.009 | 0.007 |
| 90 % | 0.031 | 0.010 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| None | R1 pond | - | 0.032 | 0.030 | 0.028 | 0.028 | 0.016 | 0.014 | 0.009 |
| 50 % | 0.028 | 0.028 | 0.026 | 0.026 | 0.025 | 0.013 | 0.012 | 0.007 |
| 75 % | 0.026 | 0.026 | 0.025 | 0.025 | 0.024 | 0.011 | 0.011 | 0.006 |
| 90 % | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.010 | 0.010 | 0.005 |
| None | R1 stream | - | 0.535 | 0.535 | 0.535 | 0.535 | 0.243 | 0.243 | 0.127 |
| 50 % | 0.535 | 0.535 | 0.535 | 0.535 | 0.535 | 0.243 | 0.243 | 0.127 |
| 75 % | 0.535 | 0.535 | 0.535 | 0.535 | 0.535 | 0.243 | 0.243 | 0.127 |
| 90 % | 0.535 | 0.535 | 0.535 | 0.535 | 0.535 | 0.243 | 0.243 | 0.127 |
| None | R2 stream | - | 0.123 | 0.065 | 0.045 | 0.034 | 0.065 | 0.045 | 0.034 |
| 50 % | 0.146 | 0.062 | 0.033 | 0.022 | 0.017 | 0.033 | 0.022 | 0.017 |
| 75 % | 0.073 | 0.031 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 90 % | 0.029 | 0.012 | 0.007 | 0.004 | 0.003 | 0.007 | 0.004 | 0.003 |
| None | R3 stream | - | 0.292 | 0.292 | 0.292 | 0.292 | 0.133 | 0.133 | 0.070 |
| 50 % | 0.292 | 0.292 | 0.292 | 0.292 | 0.292 | 0.133 | 0.133 | 0.070 |
| 75 % | 0.292 | 0.292 | 0.292 | 0.292 | 0.292 | 0.133 | 0.133 | 0.070 |
| 90 % | 0.292 | 0.292 | 0.292 | 0.292 | 0.292 | 0.133 | 0.133 | 0.070 |
| None | R4 stream | - | 0.090 | 0.087 | 0.087 | 0.087 | 0.048 | 0.040 | 0.025 |
| 50 % | 0.106 | 0.087 | 0.087 | 0.087 | 0.087 | 0.040 | 0.040 | 0.021 |
| 75 % | 0.087 | 0.087 | 0.087 | 0.087 | 0.087 | 0.040 | 0.040 | 0.021 |
| 90 % | 0.087 | 0.087 | 0.087 | 0.087 | 0.087 | 0.040 | 0.040 | 0.021 |
| ***Pome fruit (late), 1x80 g a.s./ha, BBCH 71*** | | | | | | | | | |
| None | D3 ditch | - | 1.985 | 0.887 | 0.448 | 0.274 | 0.887 | 0.448 | 0.274 |
| 50 % | 1.471 | 0.993 | 0.444 | 0.224 | 0.137 | 0.444 | 0.224 | 0.137 |
| 75 % | 0.735 | 0.496 | 0.222 | 0.112 | 0.068 | 0.222 | 0.112 | 0.068 |
| 90 % | 0.294 | 0.199 | 0.089 | 0.045 | 0.027 | 0.089 | 0.045 | 0.027 |
| None | D4 pond | - | 0.151 | 0.084 | 0.053 | 0.038 | 0.084 | 0.053 | 0.038 |
| 50 % | 0.066 | 0.075 | 0.042 | 0.027 | 0.019 | 0.042 | 0.027 | 0.019 |
| 75 % | 0.033 | 0.038 | 0.021 | 0.013 | 0.010 | 0.021 | 0.013 | 0.010 |
| 90 % | 0.013 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| None | D4 stream | - | 2.304 | 1.029 | 0.520 | 0.318 | 1.029 | 0.520 | 0.318 |
| 50 % | 1.476 | 1.152 | 0.515 | 0.260 | 0.159 | 0.515 | 0.260 | 0.159 |
| 75 % | 0.738 | 0.576 | 0.257 | 0.130 | 0.079 | 0.257 | 0.130 | 0.079 |
| 90 % | 0.295 | 0.230 | 0.103 | 0.052 | 0.032 | 0.103 | 0.052 | 0.032 |
| None | D5 pond | - | 0.151 | 0.084 | 0.053 | 0.038 | 0.084 | 0.053 | 0.038 |
| 50 % | 0.066 | 0.075 | 0.042 | 0.027 | 0.019 | 0.042 | 0.027 | 0.019 |
| 75 % | 0.033 | 0.038 | 0.021 | 0.013 | 0.010 | 0.021 | 0.013 | 0.010 |
| 90 % | 0.013 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| None | D5 stream | - | 2.485 | 1.111 | 0.561 | 0.343 | 1.111 | 0.561 | 0.343 |
| 50 % | 1.592 | 1.243 | 0.555 | 0.280 | 0.171 | 0.555 | 0.280 | 0.171 |
| 75 % | 0.796 | 0.621 | 0.278 | 0.140 | 0.086 | 0.278 | 0.140 | 0.086 |
| 90 % | 0.318 | 0.249 | 0.111 | 0.056 | 0.034 | 0.111 | 0.056 | 0.034 |
| None | R1 pond | - | 0.151 | 0.083 | 0.053 | 0.038 | 0.083 | 0.053 | 0.038 |
| 50 % | 0.066 | 0.075 | 0.042 | 0.027 | 0.019 | 0.042 | 0.027 | 0.019 |
| 75 % | 0.033 | 0.038 | 0.021 | 0.013 | 0.009 | 0.021 | 0.013 | 0.009 |
| 90 % | 0.013 | 0.015 | 0.008 | 0.006 | 0.005 | 0.008 | 0.005 | 0.004 |
| None | R1 stream | - | 1.727 | 0.772 | 0.390 | 0.317 | 0.772 | 0.390 | 0.238 |
| 50 % | 1.106 | 0.864 | 0.386 | 0.317 | 0.317 | 0.386 | 0.195 | 0.119 |
| 75 % | 0.553 | 0.432 | 0.317 | 0.317 | 0.317 | 0.193 | 0.133 | 0.067 |
| 90 % | 0.317 | 0.317 | 0.317 | 0.317 | 0.317 | 0.133 | 0.133 | 0.067 |
| None | R2 stream | - | 2.362 | 1.055 | 0.533 | 0.326 | 1.055 | 0.533 | 0.326 |
| 50 % | 1.513 | 1.181 | 0.528 | 0.266 | 0.163 | 0.528 | 0.266 | 0.163 |
| 75 % | 0.757 | 0.590 | 0.264 | 0.133 | 0.081 | 0.264 | 0.133 | 0.081 |
| 90 % | 0.303 | 0.236 | 0.106 | 0.053 | 0.033 | 0.106 | 0.053 | 0.033 |
| None | R3 stream | - | 2.484 | 1.110 | 0.560 | 0.343 | 1.110 | 0.560 | 0.343 |
| 50 % | 1.591 | 1.242 | 0.555 | 0.280 | 0.171 | 0.555 | 0.280 | 0.171 |
| 75 % | 0.796 | 0.621 | 0.277 | 0.140 | 0.086 | 0.277 | 0.140 | 0.086 |
| 90 % | 0.318 | 0.248 | 0.111 | 0.056 | 0.034 | 0.111 | 0.056 | 0.034 |
| None | R4 stream | - | 1.762 | 1.113 | 1.113 | 1.113 | 0.787 | 0.487 | 0.251 |
| 50 % | 1.129 | 1.113 | 1.113 | 1.113 | 1.113 | 0.487 | 0.487 | 0.251 |
| 75 % | 1.113 | 1.113 | 1.113 | 1.113 | 1.113 | 0.487 | 0.487 | 0.251 |
| 90 % | 1.113 | 1.113 | 1.113 | 1.113 | 1.113 | 0.487 | 0.487 | 0.251 |
| ***Pome fruit, 2x25 g a.s./ha, early application, BBCH 62*** | | | | | | | | | |
| None | D3 ditch | - | 1.294 | 0.764 | 0.419 | 0.198 | 0.764 | 0.419 | 0.198 |
| 50 % | 0.839 | 0.647 | 0.382 | 0.210 | 0.099 | 0.382 | 0.210 | 0.099 |
| 75 % | 0.419 | 0.323 | 0.191 | 0.105 | 0.049 | 0.191 | 0.105 | 0.049 |
| 90 % | 0.168 | 0.129 | 0.076 | 0.042 | 0.020 | 0.076 | 0.042 | 0.020 |
| None | D4 pond | - | 0.208 | 0.118 | 0.062 | 0.036 | 0.118 | 0.062 | 0.036 |
| 50 % | 0.093 | 0.104 | 0.059 | 0.031 | 0.018 | 0.059 | 0.031 | 0.018 |
| 75 % | 0.046 | 0.052 | 0.029 | 0.015 | 0.009 | 0.029 | 0.015 | 0.009 |
| 90 % | 0.018 | 0.021 | 0.012 | 0.006 | 0.004 | 0.012 | 0.006 | 0.004 |
| None | D4 stream | - | 1.499 | 0.885 | 0.486 | 0.229 | 0.885 | 0.486 | 0.229 |
| 50 % | 0.883 | 0.749 | 0.443 | 0.243 | 0.115 | 0.443 | 0.243 | 0.115 |
| 75 % | 0.441 | 0.375 | 0.221 | 0.122 | 0.057 | 0.221 | 0.122 | 0.057 |
| 90 % | 0.177 | 0.150 | 0.089 | 0.049 | 0.023 | 0.089 | 0.049 | 0.023 |
| None | D5 pond | - | 0.201 | 0.114 | 0.060 | 0.034 | 0.114 | 0.060 | 0.034 |
| 50 % | 0.090 | 0.101 | 0.057 | 0.030 | 0.017 | 0.057 | 0.030 | 0.017 |
| 75 % | 0.045 | 0.050 | 0.028 | 0.015 | 0.009 | 0.028 | 0.015 | 0.009 |
| 90 % | 0.018 | 0.020 | 0.011 | 0.006 | 0.003 | 0.011 | 0.006 | 0.003 |
| None | D5 stream | - | 1.617 | 0.955 | 0.525 | 0.247 | 0.955 | 0.525 | 0.247 |
| 50 % | 0.953 | 0.808 | 0.478 | 0.262 | 0.124 | 0.478 | 0.262 | 0.124 |
| 75 % | 0.476 | 0.404 | 0.239 | 0.131 | 0.062 | 0.239 | 0.131 | 0.062 |
| 90 % | 0.191 | 0.162 | 0.096 | 0.052 | 0.025 | 0.096 | 0.052 | 0.025 |
| None | R1 pond | - | 0.200 | 0.116 | 0.063 | 0.039 | 0.113 | 0.060 | 0.034 |
| 50 % | 0.092 | 0.103 | 0.061 | 0.034 | 0.022 | 0.057 | 0.031 | 0.018 |
| 75 % | 0.049 | 0.054 | 0.033 | 0.020 | 0.014 | 0.030 | 0.017 | 0.009 |
| 90 % | 0.023 | 0.025 | 0.016 | 0.011 | 0.009 | 0.013 | 0.008 | 0.004 |
| None | R1 stream | - | 1.147 | 0.677 | 0.372 | 0.175 | 0.677 | 0.372 | 0.175 |
| 50 % | 0.675 | 0.573 | 0.339 | 0.186 | 0.091 | 0.339 | 0.186 | 0.088 |
| 75 % | 0.338 | 0.287 | 0.169 | 0.093 | 0.091 | 0.169 | 0.093 | 0.044 |
| 90 % | 0.135 | 0.115 | 0.091 | 0.091 | 0.091 | 0.068 | 0.038 | 0.020 |
| None | R2 stream | - | 1.537 | 0.908 | 0.498 | 0.235 | 0.908 | 0.498 | 0.235 |
| 50 % | 0.905 | 0.768 | 0.454 | 0.249 | 0.118 | 0.454 | 0.249 | 0.118 |
| 75 % | 0.453 | 0.384 | 0.227 | 0.125 | 0.059 | 0.227 | 0.125 | 0.059 |
| 90 % | 0.181 | 0.154 | 0.091 | 0.050 | 0.024 | 0.091 | 0.050 | 0.024 |
| None | R3 stream | - | 1.616 | 0.955 | 0.524 | 0.247 | 0.955 | 0.524 | 0.247 |
| 50 % | 0.952 | 0.808 | 0.477 | 0.262 | 0.124 | 0.477 | 0.262 | 0.124 |
| 75 % | 0.476 | 0.404 | 0.239 | 0.131 | 0.062 | 0.239 | 0.131 | 0.062 |
| 90 % | 0.190 | 0.162 | 0.095 | 0.052 | 0.025 | 0.095 | 0.052 | 0.025 |
| None | R4 stream | - | 1.146 | 0.677 | 0.372 | 0.175 | 0.677 | 0.372 | 0.175 |
| 50 % | 0.675 | 0.573 | 0.339 | 0.186 | 0.125 | 0.339 | 0.186 | 0.088 |
| 75 % | 0.338 | 0.287 | 0.169 | 0.125 | 0.125 | 0.169 | 0.093 | 0.044 |
| 90 % | 0.135 | 0.125 | 0.125 | 0.125 | 0.125 | 0.068 | 0.053 | 0.027 |
| ***Pome fruit, 2x25 g a.s./ha, early application, BBCH 62 (single application)*** | | | | | | | | | |
| None | D3 ditch | - | 1.530 | 0.940 | 0.423 | 0.215 | 0.940 | 0.423 | 0.215 |
| 50 % | 0.974 | 0.765 | 0.470 | 0.211 | 0.107 | 0.470 | 0.211 | 0.107 |
| 75 % | 0.487 | 0.383 | 0.235 | 0.106 | 0.054 | 0.235 | 0.106 | 0.054 |
| 90 % | 0.195 | 0.153 | 0.094 | 0.042 | 0.021 | 0.094 | 0.042 | 0.021 |
| None | D4 pond | - | 0.133 | 0.073 | 0.038 | 0.024 | 0.073 | 0.038 | 0.024 |
| 50 % | 0.059 | 0.066 | 0.036 | 0.019 | 0.012 | 0.036 | 0.019 | 0.012 |
| 75 % | 0.030 | 0.033 | 0.018 | 0.010 | 0.006 | 0.018 | 0.010 | 0.006 |
| 90 % | 0.012 | 0.013 | 0.007 | 0.004 | 0.002 | 0.007 | 0.004 | 0.002 |
| None | D4 stream | - | 1.774 | 1.089 | 0.490 | 0.249 | 1.089 | 0.490 | 0.249 |
| 50 % | 1.032 | 0.887 | 0.545 | 0.245 | 0.125 | 0.545 | 0.245 | 0.125 |
| 75 % | 0.516 | 0.444 | 0.272 | 0.123 | 0.062 | 0.272 | 0.123 | 0.062 |
| 90 % | 0.206 | 0.177 | 0.109 | 0.049 | 0.025 | 0.109 | 0.049 | 0.025 |
| None | D5 pond | - | 0.133 | 0.073 | 0.038 | 0.024 | 0.073 | 0.038 | 0.024 |
| 50 % | 0.059 | 0.066 | 0.036 | 0.019 | 0.012 | 0.036 | 0.019 | 0.012 |
| 75 % | 0.030 | 0.033 | 0.018 | 0.010 | 0.006 | 0.018 | 0.010 | 0.006 |
| 90 % | 0.012 | 0.013 | 0.007 | 0.004 | 0.002 | 0.007 | 0.004 | 0.002 |
| None | D5 stream | - | 1.916 | 1.176 | 0.529 | 0.269 | 1.176 | 0.529 | 0.269 |
| 50 % | 1.115 | 0.958 | 0.588 | 0.265 | 0.135 | 0.588 | 0.265 | 0.135 |
| 75 % | 0.558 | 0.479 | 0.294 | 0.132 | 0.067 | 0.294 | 0.132 | 0.067 |
| 90 % | 0.223 | 0.192 | 0.118 | 0.053 | 0.027 | 0.118 | 0.053 | 0.027 |
| None | R1 pond | - | 0.133 | 0.073 | 0.038 | 0.024 | 0.073 | 0.038 | 0.024 |
| 50 % | 0.059 | 0.066 | 0.036 | 0.019 | 0.014 | 0.036 | 0.019 | 0.012 |
| 75 % | 0.030 | 0.033 | 0.019 | 0.012 | 0.010 | 0.018 | 0.010 | 0.006 |
| 90 % | 0.014 | 0.015 | 0.011 | 0.008 | 0.007 | 0.007 | 0.005 | 0.003 |
| None | R1 stream | - | 1.359 | 0.835 | 0.376 | 0.191 | 0.835 | 0.376 | 0.191 |
| 50 % | 0.791 | 0.680 | 0.417 | 0.188 | 0.095 | 0.417 | 0.188 | 0.095 |
| 75 % | 0.396 | 0.340 | 0.209 | 0.094 | 0.083 | 0.209 | 0.094 | 0.048 |
| 90 % | 0.158 | 0.136 | 0.083 | 0.083 | 0.083 | 0.083 | 0.038 | 0.020 |
| None | R2 stream | - | 1.822 | 1.119 | 0.503 | 0.256 | 1.119 | 0.503 | 0.256 |
| 50 % | 1.060 | 0.911 | 0.559 | 0.252 | 0.128 | 0.559 | 0.252 | 0.128 |
| 75 % | 0.530 | 0.456 | 0.280 | 0.126 | 0.064 | 0.280 | 0.126 | 0.064 |
| 90 % | 0.212 | 0.182 | 0.112 | 0.050 | 0.026 | 0.112 | 0.050 | 0.026 |
| None | R3 stream | - | 1.916 | 1.176 | 0.529 | 0.269 | 1.176 | 0.529 | 0.269 |
| 50 % | 1.115 | 0.958 | 0.588 | 0.265 | 0.135 | 0.588 | 0.265 | 0.135 |
| 75 % | 0.558 | 0.479 | 0.294 | 0.132 | 0.067 | 0.294 | 0.132 | 0.067 |
| 90 % | 0.223 | 0.192 | 0.118 | 0.053 | 0.027 | 0.118 | 0.053 | 0.027 |
| None | R4 stream | - | 1.329 | 0.816 | 0.367 | 0.187 | 0.816 | 0.367 | 0.187 |
| 50 % | 0.773 | 0.664 | 0.408 | 0.184 | 0.093 | 0.408 | 0.184 | 0.093 |
| 75 % | 0.387 | 0.332 | 0.204 | 0.092 | 0.047 | 0.204 | 0.092 | 0.047 |
| 90 % | 0.155 | 0.133 | 0.082 | 0.037 | 0.019 | 0.082 | 0.037 | 0.019 |
| ***Pome fruit, 2x25 g a.s./ha, late application, pre-harvest*** | | | | | | | | | |
| None | D3 ditch | - | 0.507 | 0.244 | 0.119 | 0.069 | 0.244 | 0.119 | 0.069 |
| 50 % | 0.365 | 0.254 | 0.122 | 0.060 | 0.035 | 0.122 | 0.060 | 0.035 |
| 75 % | 0.182 | 0.127 | 0.061 | 0.030 | 0.017 | 0.061 | 0.030 | 0.017 |
| 90 % | 0.073 | 0.051 | 0.024 | 0.012 | 0.007 | 0.024 | 0.012 | 0.007 |
| None | D4 pond | - | 0.066 | 0.036 | 0.022 | 0.015 | 0.036 | 0.022 | 0.015 |
| 50 % | 0.029 | 0.033 | 0.018 | 0.011 | 0.007 | 0.018 | 0.011 | 0.007 |
| 75 % | 0.014 | 0.016 | 0.009 | 0.005 | 0.004 | 0.009 | 0.005 | 0.004 |
| 90 % | 0.006 | 0.007 | 0.004 | 0.002 | 0.001 | 0.004 | 0.002 | 0.001 |
| None | D4 stream | - | 0.574 | 0.276 | 0.135 | 0.078 | 0.276 | 0.135 | 0.078 |
| 50 % | 0.361 | 0.287 | 0.138 | 0.068 | 0.039 | 0.138 | 0.068 | 0.039 |
| 75 % | 0.180 | 0.144 | 0.069 | 0.034 | 0.020 | 0.069 | 0.034 | 0.020 |
| 90 % | 0.072 | 0.057 | 0.028 | 0.014 | 0.008 | 0.028 | 0.014 | 0.008 |
| None | D5 pond | - | 0.071 | 0.039 | 0.024 | 0.016 | 0.039 | 0.024 | 0.016 |
| 50 % | 0.031 | 0.035 | 0.019 | 0.012 | 0.008 | 0.019 | 0.012 | 0.008 |
| 75 % | 0.015 | 0.018 | 0.010 | 0.006 | 0.004 | 0.010 | 0.006 | 0.004 |
| 90 % | 0.006 | 0.007 | 0.004 | 0.002 | 0.002 | 0.004 | 0.002 | 0.002 |
| None | D5 stream | - | 0.634 | 0.305 | 0.149 | 0.086 | 0.305 | 0.149 | 0.086 |
| 50 % | 0.398 | 0.317 | 0.152 | 0.075 | 0.043 | 0.152 | 0.075 | 0.043 |
| 75 % | 0.199 | 0.159 | 0.076 | 0.037 | 0.022 | 0.076 | 0.037 | 0.022 |
| 90 % | 0.080 | 0.063 | 0.030 | 0.015 | 0.009 | 0.030 | 0.015 | 0.009 |
| None | R1 pond | - | 0.064 | 0.035 | 0.021 | 0.015 | 0.035 | 0.021 | 0.015 |
| 50 % | 0.028 | 0.032 | 0.018 | 0.011 | 0.007 | 0.018 | 0.011 | 0.007 |
| 75 % | 0.014 | 0.016 | 0.009 | 0.005 | 0.004 | 0.009 | 0.005 | 0.004 |
| 90 % | 0.006 | 0.006 | 0.004 | 0.002 | 0.001 | 0.004 | 0.002 | 0.001 |
| None | R1 stream | - | 0.450 | 0.216 | 0.106 | 0.061 | 0.216 | 0.106 | 0.061 |
| 50 % | 0.282 | 0.225 | 0.108 | 0.053 | 0.031 | 0.108 | 0.053 | 0.031 |
| 75 % | 0.141 | 0.112 | 0.054 | 0.026 | 0.015 | 0.054 | 0.026 | 0.015 |
| 90 % | 0.056 | 0.045 | 0.022 | 0.011 | 0.006 | 0.022 | 0.011 | 0.006 |
| None | R2 stream | - | 0.603 | 0.289 | 0.142 | 0.082 | 0.289 | 0.142 | 0.082 |
| 50 % | 0.379 | 0.301 | 0.145 | 0.071 | 0.041 | 0.145 | 0.071 | 0.041 |
| 75 % | 0.189 | 0.151 | 0.072 | 0.035 | 0.021 | 0.072 | 0.035 | 0.021 |
| 90 % | 0.076 | 0.060 | 0.029 | 0.014 | 0.008 | 0.029 | 0.014 | 0.008 |
| None | R3 stream | - | 0.634 | 0.304 | 0.186 | 0.186 | 0.304 | 0.149 | 0.086 |
| 50 % | 0.398 | 0.317 | 0.186 | 0.186 | 0.186 | 0.152 | 0.084 | 0.044 |
| 75 % | 0.199 | 0.186 | 0.186 | 0.186 | 0.186 | 0.084 | 0.084 | 0.044 |
| 90 % | 0.186 | 0.186 | 0.186 | 0.186 | 0.186 | 0.084 | 0.084 | 0.044 |
| None | R4 stream | - | 0.450 | 0.288 | 0.288 | 0.288 | 0.216 | 0.129 | 0.067 |
| 50 % | 0.288 | 0.288 | 0.288 | 0.288 | 0.288 | 0.129 | 0.129 | 0.067 |
| 75 % | 0.288 | 0.288 | 0.288 | 0.288 | 0.288 | 0.129 | 0.129 | 0.067 |
| 90 % | 0.288 | 0.288 | 0.288 | 0.288 | 0.288 | 0.129 | 0.129 | 0.067 |
| ***Pome fruit, 2x25 g a.s./ha, late application, pre-harvest (single application)*** | | | | | | | | | |
| None | D3 ditch | - | 0.620 | 0.277 | 0.140 | 0.086 | 0.277 | 0.140 | 0.086 |
| 50 % | 0.460 | 0.310 | 0.139 | 0.070 | 0.043 | 0.139 | 0.070 | 0.043 |
| 75 % | 0.230 | 0.155 | 0.069 | 0.035 | 0.021 | 0.069 | 0.035 | 0.021 |
| 90 % | 0.092 | 0.062 | 0.028 | 0.014 | 0.009 | 0.028 | 0.014 | 0.009 |
| None | D4 pond | - | 0.047 | 0.026 | 0.017 | 0.012 | 0.026 | 0.017 | 0.012 |
| 50 % | 0.021 | 0.024 | 0.013 | 0.008 | 0.006 | 0.013 | 0.008 | 0.006 |
| 75 % | 0.010 | 0.012 | 0.007 | 0.004 | 0.003 | 0.007 | 0.004 | 0.003 |
| 90 % | 0.004 | 0.005 | 0.003 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |
| None | D4 stream | - | 0.704 | 0.314 | 0.159 | 0.097 | 0.314 | 0.159 | 0.097 |
| 50 % | 0.451 | 0.352 | 0.157 | 0.079 | 0.049 | 0.157 | 0.079 | 0.049 |
| 75 % | 0.225 | 0.176 | 0.079 | 0.040 | 0.024 | 0.079 | 0.040 | 0.024 |
| 90 % | 0.090 | 0.070 | 0.031 | 0.016 | 0.010 | 0.031 | 0.016 | 0.010 |
| None | D5 pond | - | 0.047 | 0.026 | 0.017 | 0.012 | 0.026 | 0.017 | 0.012 |
| 50 % | 0.021 | 0.024 | 0.013 | 0.008 | 0.006 | 0.013 | 0.008 | 0.006 |
| 75 % | 0.010 | 0.012 | 0.007 | 0.004 | 0.003 | 0.007 | 0.004 | 0.003 |
| 90 % | 0.004 | 0.005 | 0.003 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |
| None | D5 stream | - | 0.777 | 0.347 | 0.175 | 0.107 | 0.347 | 0.175 | 0.107 |
| 50 % | 0.498 | 0.388 | 0.174 | 0.088 | 0.054 | 0.174 | 0.088 | 0.054 |
| 75 % | 0.249 | 0.194 | 0.087 | 0.044 | 0.027 | 0.087 | 0.044 | 0.027 |
| 90 % | 0.100 | 0.078 | 0.035 | 0.018 | 0.011 | 0.035 | 0.018 | 0.011 |
| None | R1 pond | - | 0.047 | 0.026 | 0.017 | 0.012 | 0.026 | 0.017 | 0.012 |
| 50 % | 0.021 | 0.024 | 0.013 | 0.008 | 0.006 | 0.013 | 0.008 | 0.006 |
| 75 % | 0.010 | 0.012 | 0.007 | 0.004 | 0.003 | 0.007 | 0.004 | 0.003 |
| 90 % | 0.004 | 0.005 | 0.003 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |
| None | R1 stream | - | 0.551 | 0.246 | 0.124 | 0.076 | 0.246 | 0.124 | 0.076 |
| 50 % | 0.353 | 0.275 | 0.123 | 0.062 | 0.038 | 0.123 | 0.062 | 0.038 |
| 75 % | 0.176 | 0.138 | 0.062 | 0.031 | 0.019 | 0.062 | 0.031 | 0.019 |
| 90 % | 0.071 | 0.055 | 0.025 | 0.012 | 0.008 | 0.025 | 0.012 | 0.008 |
| None | R2 stream | - | 0.738 | 0.330 | 0.167 | 0.102 | 0.330 | 0.167 | 0.102 |
| 50 % | 0.473 | 0.369 | 0.165 | 0.083 | 0.051 | 0.165 | 0.083 | 0.051 |
| 75 % | 0.236 | 0.185 | 0.082 | 0.042 | 0.025 | 0.082 | 0.042 | 0.025 |
| 90 % | 0.095 | 0.074 | 0.033 | 0.017 | 0.010 | 0.033 | 0.017 | 0.010 |
| None | R3 stream | - | 0.776 | 0.347 | 0.175 | 0.107 | 0.347 | 0.175 | 0.107 |
| 50 % | 0.497 | 0.388 | 0.173 | 0.088 | 0.054 | 0.173 | 0.088 | 0.054 |
| 75 % | 0.249 | 0.194 | 0.087 | 0.044 | 0.027 | 0.087 | 0.044 | 0.027 |
| 90 % | 0.099 | 0.078 | 0.035 | 0.021 | 0.021 | 0.035 | 0.018 | 0.011 |
| None | R4 stream | - | 0.551 | 0.246 | 0.124 | 0.076 | 0.246 | 0.124 | 0.076 |
| 50 % | 0.353 | 0.275 | 0.123 | 0.062 | 0.059 | 0.123 | 0.062 | 0.038 |
| 75 % | 0.176 | 0.138 | 0.062 | 0.059 | 0.059 | 0.062 | 0.031 | 0.019 |
| 90 % | 0.071 | 0.059 | 0.059 | 0.059 | 0.059 | 0.025 | 0.024 | 0.012 |
| ***Spring cereals, 2x35 g a.s./ha, BBCH 40*** | | | | | | | | | |
| None | D1 ditch | - | 0.083 | 0.043 | 0.029 | 0.022 | 0.043 | 0.029 | 0.022 |
| 50 % | 0.160 | 0.041 | 0.021 | 0.014 | 0.011 | 0.021 | 0.014 | 0.011 |
| 75 % | 0.080 | 0.021 | 0.011 | 0.007 | 0.005 | 0.011 | 0.007 | 0.005 |
| 90 % | 0.032 | 0.008 | 0.004 | 0.003 | 0.002 | 0.004 | 0.003 | 0.002 |
| None | D1 stream | - | 0.060 | 0.031 | 0.021 | 0.016 | 0.031 | 0.021 | 0.016 |
| 50 % | 0.085 | 0.030 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 75 % | 0.042 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.017 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D3 ditch | - | 0.050 | 0.026 | 0.018 | 0.013 | 0.026 | 0.018 | 0.013 |
| 50 % | 0.097 | 0.025 | 0.013 | 0.009 | 0.007 | 0.013 | 0.009 | 0.007 |
| 75 % | 0.049 | 0.013 | 0.007 | 0.004 | 0.003 | 0.007 | 0.004 | 0.003 |
| 90 % | 0.019 | 0.005 | 0.003 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |
| None | D4 pond | - | 0.008 | 0.006 | 0.004 | 0.004 | 0.006 | 0.004 | 0.004 |
| 50 % | 0.005 | 0.004 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| 75 % | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | < 0.001 | < 0.001 | 0.001 | < 0.001 | < 0.001 |
| None | D4 stream | - | 0.058 | 0.030 | 0.020 | 0.015 | 0.030 | 0.020 | 0.015 |
| 50 % | 0.083 | 0.029 | 0.015 | 0.010 | 0.008 | 0.015 | 0.010 | 0.008 |
| 75 % | 0.041 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.017 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D5 pond | - | 0.009 | 0.006 | 0.005 | 0.004 | 0.006 | 0.005 | 0.004 |
| 50 % | 0.005 | 0.005 | 0.003 | 0.003 | 0.002 | 0.003 | 0.003 | 0.002 |
| 75 % | 0.003 | 0.002 | 0.002 | 0.001 | 0.001 | 0.002 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | 0.001 | < 0.001 | 0.001 | 0.001 | < 0.001 |
| None | D5 stream | - | 0.059 | 0.031 | 0.021 | 0.016 | 0.031 | 0.021 | 0.016 |
| 50 % | 0.084 | 0.030 | 0.015 | 0.010 | 0.008 | 0.015 | 0.010 | 0.008 |
| 75 % | 0.042 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.017 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | R1 pond (winter cereals as surrogate crop) | - | 0.038 | 0.036 | 0.036 | 0.035 | 0.017 | 0.016 | 0.009 |
| 50 % | 0.036 | 0.035 | 0.034 | 0.034 | 0.034 | 0.015 | 0.015 | 0.008 |
| 75 % | 0.034 | 0.034 | 0.033 | 0.033 | 0.033 | 0.014 | 0.014 | 0.007 |
| 90 % | 0.033 | 0.033 | 0.033 | 0.032 | 0.032 | 0.013 | 0.013 | 0.007 |
| None | R1 stream (winter cereals as surrogate crop) | - | 0.282 | 0.282 | 0.282 | 0.282 | 0.128 | 0.128 | 0.067 |
| 50 % | 0.282 | 0.282 | 0.282 | 0.282 | 0.282 | 0.128 | 0.128 | 0.067 |
| 75 % | 0.282 | 0.282 | 0.282 | 0.282 | 0.282 | 0.128 | 0.128 | 0.067 |
| 90 % | 0.282 | 0.282 | 0.282 | 0.282 | 0.282 | 0.128 | 0.128 | 0.067 |
| None | R3 stream (winter cereals as surrogate crop) | - | 0.604 | 0.604 | 0.604 | 0.604 | 0.276 | 0.276 | 0.145 |
| 50 % | 0.604 | 0.604 | 0.604 | 0.604 | 0.604 | 0.276 | 0.276 | 0.145 |
| 75 % | 0.604 | 0.604 | 0.604 | 0.604 | 0.604 | 0.276 | 0.276 | 0.145 |
| 90 % | 0.604 | 0.604 | 0.604 | 0.604 | 0.604 | 0.276 | 0.276 | 0.145 |
| None | R4 stream | - | 0.397 | 0.397 | 0.397 | 0.397 | 0.179 | 0.179 | 0.094 |
| 50 % | 0.397 | 0.397 | 0.397 | 0.397 | 0.397 | 0.179 | 0.179 | 0.094 |
| 75 % | 0.397 | 0.397 | 0.397 | 0.397 | 0.397 | 0.179 | 0.179 | 0.094 |
| 90 % | 0.397 | 0.397 | 0.397 | 0.397 | 0.397 | 0.179 | 0.179 | 0.094 |
| ***Spring cereals, 2x35 g a.s./ha, BBCH 40 (single application)*** | | | | | | | | | |
| None | D1 ditch | - | 0.061 | 0.032 | 0.022 | 0.017 | 0.032 | 0.022 | 0.017 |
| 50 % | 0.112 | 0.031 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 75 % | 0.056 | 0.015 | 0.008 | 0.006 | 0.004 | 0.008 | 0.006 | 0.004 |
| 90 % | 0.023 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D1 stream | - | 0.072 | 0.038 | 0.026 | 0.020 | 0.038 | 0.026 | 0.020 |
| 50 % | 0.098 | 0.036 | 0.019 | 0.013 | 0.010 | 0.019 | 0.013 | 0.010 |
| 75 % | 0.049 | 0.018 | 0.010 | 0.006 | 0.005 | 0.010 | 0.006 | 0.005 |
| 90 % | 0.020 | 0.007 | 0.004 | 0.003 | 0.002 | 0.004 | 0.003 | 0.002 |
| None | D3 ditch | - | 0.060 | 0.032 | 0.022 | 0.017 | 0.032 | 0.022 | 0.017 |
| 50 % | 0.111 | 0.030 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 75 % | 0.055 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.022 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D4 pond | - | 0.007 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| 50 % | 0.004 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| 75 % | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| None | D4 stream | - | 0.066 | 0.035 | 0.024 | 0.018 | 0.035 | 0.024 | 0.018 |
| 50 % | 0.091 | 0.033 | 0.018 | 0.012 | 0.009 | 0.018 | 0.012 | 0.009 |
| 75 % | 0.045 | 0.017 | 0.009 | 0.006 | 0.005 | 0.009 | 0.006 | 0.005 |
| 90 % | 0.018 | 0.007 | 0.004 | 0.002 | 0.002 | 0.004 | 0.002 | 0.002 |
| None | D5 pond | - | 0.007 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| 50 % | 0.004 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| 75 % | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| None | D5 stream | - | 0.070 | 0.037 | 0.026 | 0.019 | 0.037 | 0.026 | 0.019 |
| 50 % | 0.096 | 0.035 | 0.019 | 0.013 | 0.010 | 0.019 | 0.013 | 0.010 |
| 75 % | 0.048 | 0.018 | 0.009 | 0.006 | 0.005 | 0.009 | 0.006 | 0.005 |
| 90 % | 0.019 | 0.007 | 0.004 | 0.003 | 0.002 | 0.004 | 0.003 | 0.002 |
| None | R1 pond (winter cereals as surrogate crop) | - | 0.014 | 0.013 | 0.012 | 0.012 | 0.007 | 0.007 | 0.004 |
| 50 % | 0.012 | 0.012 | 0.011 | 0.011 | 0.011 | 0.006 | 0.005 | 0.003 |
| 75 % | 0.011 | 0.011 | 0.010 | 0.010 | 0.010 | 0.005 | 0.004 | 0.002 |
| 90 % | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.004 | 0.004 | 0.002 |
| None | R1 stream (winter cereals as surrogate crop) | - | 0.267 | 0.267 | 0.267 | 0.267 | 0.112 | 0.112 | 0.057 |
| 50 % | 0.267 | 0.267 | 0.267 | 0.267 | 0.267 | 0.112 | 0.112 | 0.057 |
| 75 % | 0.267 | 0.267 | 0.267 | 0.267 | 0.267 | 0.112 | 0.112 | 0.057 |
| 90 % | 0.267 | 0.267 | 0.267 | 0.267 | 0.267 | 0.112 | 0.112 | 0.057 |
| None | R3 stream (winter cereals as surrogate crop) | - | 0.112 | 0.112 | 0.112 | 0.112 | 0.051 | 0.051 | 0.027 |
| 50 % | 0.112 | 0.112 | 0.112 | 0.112 | 0.112 | 0.051 | 0.051 | 0.027 |
| 75 % | 0.112 | 0.112 | 0.112 | 0.112 | 0.112 | 0.051 | 0.051 | 0.027 |
| 90 % | 0.112 | 0.112 | 0.112 | 0.112 | 0.112 | 0.051 | 0.051 | 0.027 |
| None | R4 stream | - | 0.397 | 0.397 | 0.397 | 0.397 | 0.179 | 0.179 | 0.094 |
| 50 % | 0.397 | 0.397 | 0.397 | 0.397 | 0.397 | 0.179 | 0.179 | 0.094 |
| 75 % | 0.397 | 0.397 | 0.397 | 0.397 | 0.397 | 0.179 | 0.179 | 0.094 |
| 90 % | 0.397 | 0.397 | 0.397 | 0.397 | 0.397 | 0.179 | 0.179 | 0.094 |
| ***Spring cereals, 2x35 g a.s./ha, BBCH 12*** | | | | | | | | | |
| None | D1 ditch | - | 0.051 | 0.027 | 0.018 | 0.014 | 0.027 | 0.018 | 0.014 |
| 50 % | 0.098 | 0.026 | 0.013 | 0.009 | 0.007 | 0.013 | 0.009 | 0.007 |
| 75 % | 0.049 | 0.013 | 0.007 | 0.004 | 0.003 | 0.007 | 0.004 | 0.003 |
| 90 % | 0.020 | 0.005 | 0.003 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |
| None | D1 stream | - | 0.060 | 0.031 | 0.021 | 0.016 | 0.031 | 0.021 | 0.016 |
| 50 % | 0.085 | 0.030 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 75 % | 0.042 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.017 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D3 ditch | - | 0.050 | 0.026 | 0.018 | 0.013 | 0.026 | 0.018 | 0.013 |
| 50 % | 0.097 | 0.025 | 0.013 | 0.009 | 0.007 | 0.013 | 0.009 | 0.007 |
| 75 % | 0.049 | 0.013 | 0.007 | 0.004 | 0.003 | 0.007 | 0.004 | 0.003 |
| 90 % | 0.019 | 0.005 | 0.003 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |
| None | D4 pond | - | 0.008 | 0.006 | 0.005 | 0.004 | 0.006 | 0.005 | 0.004 |
| 50 % | 0.005 | 0.004 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| 75 % | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | < 0.001 | < 0.001 | 0.001 | < 0.001 | < 0.001 |
| None | D4 stream | - | 0.058 | 0.030 | 0.020 | 0.015 | 0.030 | 0.020 | 0.015 |
| 50 % | 0.082 | 0.029 | 0.015 | 0.010 | 0.008 | 0.015 | 0.010 | 0.008 |
| 75 % | 0.041 | 0.014 | 0.007 | 0.005 | 0.004 | 0.007 | 0.005 | 0.004 |
| 90 % | 0.016 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D5 pond | - | 0.008 | 0.006 | 0.005 | 0.004 | 0.006 | 0.005 | 0.004 |
| 50 % | 0.005 | 0.004 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| 75 % | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | < 0.001 | < 0.001 | 0.001 | < 0.001 | < 0.001 |
| None | D5 stream | - | 0.059 | 0.031 | 0.021 | 0.016 | 0.031 | 0.021 | 0.016 |
| 50 % | 0.084 | 0.030 | 0.015 | 0.010 | 0.008 | 0.015 | 0.010 | 0.008 |
| 75 % | 0.042 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.017 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | R1 pond (winter cereals as surrogate crop) | Not calculated – no mitigation required. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | R1 stream (winter cereals as surrogate crop) | Not calculated – no mitigation required. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | R3 stream (winter cereals as surrogate crop) | Not calculated – no mitigation required. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | R4 stream | - | 0.397 | 0.397 | 0.397 | 0.397 | 0.179 | 0.179 | 0.094 |
| 50 % | 0.397 | 0.397 | 0.397 | 0.397 | 0.397 | 0.179 | 0.179 | 0.094 |
| 75 % | 0.397 | 0.397 | 0.397 | 0.397 | 0.397 | 0.179 | 0.179 | 0.094 |
| 90 % | 0.397 | 0.397 | 0.397 | 0.397 | 0.397 | 0.179 | 0.179 | 0.094 |
| ***Spring cereals, 2x35 g a.s./ha, BBCH 12 (single application)*** | | | | | | | | | |
| None | D1 ditch |  | 0.060 | 0.032 | 0.022 | 0.017 | 0.032 | 0.022 | 0.017 |
| 50 % | 0.112 | 0.030 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 75 % | 0.056 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.022 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D1 stream | - | 0.065 | 0.035 | 0.024 | 0.018 | 0.035 | 0.024 | 0.018 |
| 50 % | 0.089 | 0.033 | 0.017 | 0.012 | 0.009 | 0.017 | 0.012 | 0.009 |
| 75 % | 0.045 | 0.016 | 0.009 | 0.006 | 0.004 | 0.009 | 0.006 | 0.004 |
| 90 % | 0.018 | 0.007 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D3 ditch | - | 0.060 | 0.032 | 0.022 | 0.017 | 0.032 | 0.022 | 0.017 |
| 50 % | 0.111 | 0.030 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 75 % | 0.055 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.022 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D4 pond | - | 0.007 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| 50 % | 0.004 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| 75 % | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| None | D4 stream | - | 0.062 | 0.033 | 0.023 | 0.017 | 0.033 | 0.023 | 0.017 |
| 50 % | 0.085 | 0.031 | 0.016 | 0.011 | 0.009 | 0.016 | 0.011 | 0.009 |
| 75 % | 0.043 | 0.016 | 0.008 | 0.006 | 0.004 | 0.008 | 0.006 | 0.004 |
| 90 % | 0.017 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D5 pond | - | 0.007 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| 50 % | 0.004 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| 75 % | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| None | D5 stream | - | 0.064 | 0.034 | 0.023 | 0.018 | 0.034 | 0.023 | 0.018 |
| 50 % | 0.088 | 0.032 | 0.017 | 0.012 | 0.009 | 0.017 | 0.012 | 0.009 |
| 75 % | 0.044 | 0.016 | 0.009 | 0.006 | 0.004 | 0.009 | 0.006 | 0.004 |
| 90 % | 0.018 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | R1 pond (winter cereals as surrogate crop) | Not calculated – no mitigation required. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | R1 stream (winter cereals as surrogate crop) | Not calculated – no mitigation required. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | R3 stream (winter cereals as surrogate crop) | Not calculated – no mitigation required. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | R4 stream | - | 0.053 | 0.028 | 0.019 | 0.015 | 0.028 | 0.019 | 0.015 |
| 50 % | 0.073 | 0.027 | 0.014 | 0.010 | 0.007 | 0.014 | 0.010 | 0.007 |
| 75 % | 0.037 | 0.013 | 0.007 | 0.005 | 0.004 | 0.007 | 0.005 | 0.004 |
| 90 % | 0.015 | 0.005 | 0.003 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |
| ***Winter cereals, 2x36 g a.s./ha, BBCH 40*** | | | | | | | | | |
| None | D1 ditch | - | 0.054 | 0.028 | 0.019 | 0.014 | 0.028 | 0.019 | 0.014 |
| 50 % | 0.104 | 0.027 | 0.014 | 0.009 | 0.007 | 0.014 | 0.009 | 0.007 |
| 75 % | 0.052 | 0.013 | 0.007 | 0.005 | 0.004 | 0.007 | 0.005 | 0.004 |
| 90 % | 0.021 | 0.005 | 0.003 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |
| None | D1 stream | - | 0.061 | 0.032 | 0.021 | 0.016 | 0.032 | 0.021 | 0.016 |
| 50 % | 0.086 | 0.031 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 75 % | 0.043 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.017 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D2 ditch | - | 0.052 | 0.027 | 0.018 | 0.014 | 0.027 | 0.018 | 0.014 |
| 50 % | 0.101 | 0.026 | 0.014 | 0.009 | 0.007 | 0.014 | 0.009 | 0.007 |
| 75 % | 0.051 | 0.013 | 0.007 | 0.005 | 0.003 | 0.007 | 0.005 | 0.003 |
| 90 % | 0.020 | 0.005 | 0.003 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |
| None | D2 stream | - | 0.062 | 0.032 | 0.022 | 0.016 | 0.032 | 0.022 | 0.016 |
| 50 % | 0.088 | 0.031 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 75 % | 0.044 | 0.016 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.018 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D3 ditch | - | 0.052 | 0.027 | 0.018 | 0.014 | 0.027 | 0.018 | 0.014 |
| 50 % | 0.100 | 0.026 | 0.013 | 0.009 | 0.007 | 0.013 | 0.009 | 0.007 |
| 75 % | 0.050 | 0.013 | 0.007 | 0.005 | 0.003 | 0.007 | 0.005 | 0.003 |
| 90 % | 0.020 | 0.005 | 0.003 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |
| None | D4 pond | - | 0.010 | 0.007 | 0.006 | 0.005 | 0.007 | 0.006 | 0.005 |
| 50 % | 0.006 | 0.005 | 0.004 | 0.003 | 0.002 | 0.004 | 0.003 | 0.002 |
| 75 % | 0.003 | 0.003 | 0.002 | 0.001 | 0.001 | 0.002 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | 0.001 | < 0.001 | 0.001 | 0.001 | < 0.001 |
| None | D4 stream | - | 0.056 | 0.029 | 0.019 | 0.015 | 0.029 | 0.019 | 0.015 |
| 50 % | 0.079 | 0.028 | 0.014 | 0.010 | 0.007 | 0.014 | 0.010 | 0.007 |
| 75 % | 0.039 | 0.014 | 0.007 | 0.005 | 0.004 | 0.007 | 0.005 | 0.004 |
| 90 % | 0.016 | 0.006 | 0.003 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |
| None | D5 pond | - | 0.010 | 0.007 | 0.005 | 0.005 | 0.007 | 0.005 | 0.005 |
| 50 % | 0.006 | 0.005 | 0.003 | 0.003 | 0.002 | 0.003 | 0.003 | 0.002 |
| 75 % | 0.003 | 0.002 | 0.002 | 0.001 | 0.001 | 0.002 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | 0.001 | < 0.001 | 0.001 | 0.001 | < 0.001 |
| None | D5 stream | - | 0.061 | 0.032 | 0.022 | 0.016 | 0.032 | 0.022 | 0.016 |
| 50 % | 0.087 | 0.031 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 75 % | 0.043 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.017 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D6 ditch | - | 0.052 | 0.027 | 0.018 | 0.014 | 0.027 | 0.018 | 0.014 |
| 50 % | 0.100 | 0.026 | 0.014 | 0.009 | 0.007 | 0.014 | 0.009 | 0.007 |
| 75 % | 0.050 | 0.013 | 0.007 | 0.005 | 0.003 | 0.007 | 0.005 | 0.003 |
| 90 % | 0.020 | 0.005 | 0.003 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |
| None | R1 pond | - | 0.039 | 0.038 | 0.037 | 0.036 | 0.018 | 0.017 | 0.010 |
| 50 % | 0.037 | 0.036 | 0.035 | 0.035 | 0.035 | 0.016 | 0.015 | 0.008 |
| 75 % | 0.035 | 0.035 | 0.034 | 0.034 | 0.034 | 0.015 | 0.014 | 0.007 |
| 90 % | 0.034 | 0.034 | 0.034 | 0.034 | 0.033 | 0.014 | 0.014 | 0.007 |
| None | R1 stream | - | 0.291 | 0.291 | 0.291 | 0.291 | 0.132 | 0.132 | 0.069 |
| 50 % | 0.291 | 0.291 | 0.291 | 0.291 | 0.291 | 0.132 | 0.132 | 0.069 |
| 75 % | 0.291 | 0.291 | 0.291 | 0.291 | 0.291 | 0.132 | 0.132 | 0.069 |
| 90 % | 0.291 | 0.291 | 0.291 | 0.291 | 0.291 | 0.132 | 0.132 | 0.069 |
| None | R3 stream | - | 0.623 | 0.623 | 0.623 | 0.623 | 0.284 | 0.284 | 0.149 |
| 50 % | 0.623 | 0.623 | 0.623 | 0.623 | 0.623 | 0.284 | 0.284 | 0.149 |
| 75 % | 0.623 | 0.623 | 0.623 | 0.623 | 0.623 | 0.284 | 0.284 | 0.149 |
| 90 % | 0.623 | 0.623 | 0.623 | 0.623 | 0.623 | 0.284 | 0.284 | 0.149 |
| None | R4 stream | - | 1.219 | 1.219 | 1.219 | 1.219 | 0.555 | 0.555 | 0.291 |
| 50 % | 1.219 | 1.219 | 1.219 | 1.219 | 1.219 | 0.555 | 0.555 | 0.291 |
| 75 % | 1.219 | 1.219 | 1.219 | 1.219 | 1.219 | 0.555 | 0.555 | 0.291 |
| 90 % | 1.219 | 1.219 | 1.219 | 1.219 | 1.219 | 0.555 | 0.555 | 0.291 |
| ***Winter cereals, 2x36 g a.s./ha, BBCH 40 (single application)*** | | | | | | | | | |
| None | D1 ditch | - | 0.062 | 0.033 | 0.023 | 0.017 | 0.033 | 0.023 | 0.017 |
| 50 % | 0.115 | 0.031 | 0.017 | 0.011 | 0.009 | 0.017 | 0.011 | 0.009 |
| 75 % | 0.058 | 0.016 | 0.008 | 0.006 | 0.004 | 0.008 | 0.006 | 0.004 |
| 90 % | 0.023 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D1 stream | - | 0.072 | 0.038 | 0.026 | 0.020 | 0.038 | 0.026 | 0.020 |
| 50 % | 0.098 | 0.036 | 0.019 | 0.013 | 0.010 | 0.019 | 0.013 | 0.010 |
| 75 % | 0.049 | 0.018 | 0.010 | 0.007 | 0.005 | 0.010 | 0.007 | 0.005 |
| 90 % | 0.020 | 0.007 | 0.004 | 0.003 | 0.002 | 0.004 | 0.003 | 0.002 |
| None | D2 ditch | - | 0.063 | 0.033 | 0.023 | 0.017 | 0.033 | 0.023 | 0.017 |
| 50 % | 0.116 | 0.031 | 0.017 | 0.011 | 0.009 | 0.017 | 0.011 | 0.009 |
| 75 % | 0.058 | 0.016 | 0.008 | 0.006 | 0.004 | 0.008 | 0.006 | 0.004 |
| 90 % | 0.023 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D2 stream | - | 0.075 | 0.040 | 0.027 | 0.021 | 0.040 | 0.027 | 0.021 |
| 50 % | 0.102 | 0.037 | 0.020 | 0.014 | 0.010 | 0.020 | 0.014 | 0.010 |
| 75 % | 0.051 | 0.019 | 0.010 | 0.007 | 0.005 | 0.010 | 0.007 | 0.005 |
| 90 % | 0.020 | 0.007 | 0.004 | 0.003 | 0.002 | 0.004 | 0.003 | 0.002 |
| None | D3 ditch | - | 0.062 | 0.033 | 0.022 | 0.017 | 0.033 | 0.022 | 0.017 |
| 50 % | 0.114 | 0.031 | 0.016 | 0.011 | 0.009 | 0.016 | 0.011 | 0.009 |
| 75 % | 0.057 | 0.015 | 0.008 | 0.006 | 0.004 | 0.008 | 0.006 | 0.004 |
| 90 % | 0.023 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D4 pond | - | 0.007 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| 50 % | 0.004 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| 75 % | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| None | D4 stream | - | 0.064 | 0.034 | 0.023 | 0.018 | 0.034 | 0.023 | 0.018 |
| 50 % | 0.087 | 0.032 | 0.017 | 0.012 | 0.009 | 0.017 | 0.012 | 0.009 |
| 75 % | 0.044 | 0.016 | 0.008 | 0.006 | 0.004 | 0.008 | 0.006 | 0.004 |
| 90 % | 0.017 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D5 pond | - | 0.007 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| 50 % | 0.004 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| 75 % | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| None | D5 stream | - | 0.067 | 0.035 | 0.024 | 0.018 | 0.035 | 0.024 | 0.018 |
| 50 % | 0.091 | 0.033 | 0.018 | 0.012 | 0.009 | 0.018 | 0.012 | 0.009 |
| 75 % | 0.046 | 0.017 | 0.009 | 0.006 | 0.005 | 0.009 | 0.006 | 0.005 |
| 90 % | 0.018 | 0.007 | 0.004 | 0.002 | 0.002 | 0.004 | 0.002 | 0.002 |
| None | D6 ditch | - | 0.062 | 0.033 | 0.022 | 0.017 | 0.033 | 0.022 | 0.017 |
| 50 % | 0.114 | 0.031 | 0.016 | 0.011 | 0.009 | 0.016 | 0.011 | 0.009 |
| 75 % | 0.057 | 0.015 | 0.008 | 0.006 | 0.004 | 0.008 | 0.006 | 0.004 |
| 90 % | 0.023 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | R1 pond | - | 0.015 | 0.013 | 0.013 | 0.012 | 0.008 | 0.007 | 0.004 |
| 50 % | 0.013 | 0.012 | 0.012 | 0.011 | 0.011 | 0.006 | 0.005 | 0.003 |
| 75 % | 0.011 | 0.011 | 0.011 | 0.010 | 0.010 | 0.005 | 0.005 | 0.003 |
| 90 % | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.004 | 0.004 | 0.002 |
| None | R1 stream | - | 0.275 | 0.275 | 0.275 | 0.275 | 0.116 | 0.116 | 0.059 |
| 50 % | 0.275 | 0.275 | 0.275 | 0.275 | 0.275 | 0.116 | 0.116 | 0.059 |
| 75 % | 0.275 | 0.275 | 0.275 | 0.275 | 0.275 | 0.116 | 0.116 | 0.059 |
| 90 % | 0.275 | 0.275 | 0.275 | 0.275 | 0.275 | 0.116 | 0.116 | 0.059 |
| None | R3 stream | - | 0.116 | 0.116 | 0.116 | 0.116 | 0.053 | 0.053 | 0.028 |
| 50 % | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.053 | 0.053 | 0.028 |
| 75 % | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.053 | 0.053 | 0.028 |
| 90 % | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.053 | 0.053 | 0.028 |
| None | R4 stream | - | 0.224 | 0.224 | 0.224 | 0.224 | 0.102 | 0.102 | 0.053 |
| 50 % | 0.224 | 0.224 | 0.224 | 0.224 | 0.224 | 0.102 | 0.102 | 0.053 |
| 75 % | 0.224 | 0.224 | 0.224 | 0.224 | 0.224 | 0.102 | 0.102 | 0.053 |
| 90 % | 0.224 | 0.224 | 0.224 | 0.224 | 0.224 | 0.102 | 0.102 | 0.053 |
| ***Winter cereals, 1x30 g a.s./ha, BBCH 12*** | | | | | | | | | |
| None | D1 ditch | - | 0.052 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 |
| 50 % | 0.096 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 |
| 75 % | 0.048 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 |
| 90 % | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 |
| None | D1 stream | - | 0.061 | 0.033 | 0.026 | 0.026 | 0.033 | 0.026 | 0.026 |
| 50 % | 0.084 | 0.031 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 |
| 75 % | 0.042 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 |
| 90 % | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 |
| None | D2 ditch | - | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 |
| 50 % | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 |
| 75 % | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 |
| 90 % | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 |
| None | D2 stream | - | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 |
| 50 % | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 |
| 75 % | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 |
| 90 % | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 | 0.101 |
| None | D3 ditch | - | 0.051 | 0.027 | 0.019 | 0.014 | 0.027 | 0.019 | 0.014 |
| 50 % | 0.095 | 0.026 | 0.014 | 0.009 | 0.007 | 0.014 | 0.009 | 0.007 |
| 75 % | 0.047 | 0.013 | 0.007 | 0.005 | 0.004 | 0.007 | 0.005 | 0.004 |
| 90 % | 0.019 | 0.005 | 0.003 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |
| None | D4 pond | - | 0.006 | 0.004 | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 |
| 50 % | 0.003 | 0.003 | 0.002 | 0.002 | 0.001 | 0.002 | 0.002 | 0.001 |
| 75 % | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| None | D4 stream | - | 0.060 | 0.032 | 0.022 | 0.017 | 0.032 | 0.022 | 0.017 |
| 50 % | 0.082 | 0.030 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 75 % | 0.041 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.016 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D5 pond | - | 0.006 | 0.004 | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 |
| 50 % | 0.003 | 0.003 | 0.002 | 0.002 | 0.001 | 0.002 | 0.002 | 0.001 |
| 75 % | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| None | D5 stream | - | 0.065 | 0.034 | 0.023 | 0.018 | 0.034 | 0.023 | 0.018 |
| 50 % | 0.089 | 0.032 | 0.017 | 0.012 | 0.009 | 0.017 | 0.012 | 0.009 |
| 75 % | 0.044 | 0.016 | 0.009 | 0.006 | 0.004 | 0.009 | 0.006 | 0.004 |
| 90 % | 0.018 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D6 ditch | - | 0.052 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 |
| 50 % | 0.096 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 |
| 75 % | 0.048 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 |
| 90 % | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 |
| None | R1 pond | - | 0.010 | 0.008 | 0.008 | 0.007 | 0.005 | 0.005 | 0.003 |
| 50 % | 0.008 | 0.007 | 0.007 | 0.006 | 0.006 | 0.004 | 0.003 | 0.002 |
| 75 % | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.003 | 0.003 | 0.002 |
| 90 % | 0.006 | 0.005 | 0.005 | 0.005 | 0.005 | 0.002 | 0.002 | 0.001 |
| None | R1 stream | - | 0.467 | 0.467 | 0.467 | 0.467 | 0.209 | 0.209 | 0.109 |
| 50 % | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 | 0.209 | 0.209 | 0.109 |
| 75 % | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 | 0.209 | 0.209 | 0.109 |
| 90 % | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 | 0.209 | 0.209 | 0.109 |
| None | R3 stream | - | 0.966 | 0.966 | 0.966 | 0.966 | 0.436 | 0.436 | 0.228 |
| 50 % | 0.966 | 0.966 | 0.966 | 0.966 | 0.966 | 0.436 | 0.436 | 0.228 |
| 75 % | 0.966 | 0.966 | 0.966 | 0.966 | 0.966 | 0.436 | 0.436 | 0.228 |
| 90 % | 0.966 | 0.966 | 0.966 | 0.966 | 0.966 | 0.436 | 0.436 | 0.228 |
| None | R4 stream | - | 0.198 | 0.198 | 0.198 | 0.198 | 0.090 | 0.090 | 0.047 |
| 50 % | 0.198 | 0.198 | 0.198 | 0.198 | 0.198 | 0.090 | 0.090 | 0.047 |
| 75 % | 0.198 | 0.198 | 0.198 | 0.198 | 0.198 | 0.090 | 0.090 | 0.047 |
| 90 % | 0.198 | 0.198 | 0.198 | 0.198 | 0.198 | 0.090 | 0.090 | 0.047 |
| ***Oilseed rape (winter), 2x60 g a.s./ha, BBCH 31*** | | | | | | | | | |
| None | D2 ditch | - | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 |
| 50 % | 0.168 | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 |
| 75 % | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 |
| 90 % | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 |
| None | D2 stream | - | 0.105 | 0.092 | 0.092 | 0.092 | 0.092 | 0.092 | 0.092 |
| 50 % | 0.148 | 0.092 | 0.092 | 0.092 | 0.092 | 0.092 | 0.092 | 0.092 |
| 75 % | 0.092 | 0.092 | 0.092 | 0.092 | 0.092 | 0.092 | 0.092 | 0.092 |
| 90 % | 0.092 | 0.092 | 0.092 | 0.092 | 0.092 | 0.092 | 0.092 | 0.092 |
| None | D3 ditch | - | 0.086 | 0.045 | 0.030 | 0.023 | 0.045 | 0.030 | 0.023 |
| 50 % | 0.166 | 0.043 | 0.022 | 0.015 | 0.011 | 0.022 | 0.015 | 0.011 |
| 75 % | 0.083 | 0.022 | 0.011 | 0.008 | 0.006 | 0.011 | 0.008 | 0.006 |
| 90 % | 0.033 | 0.009 | 0.004 | 0.003 | 0.002 | 0.004 | 0.003 | 0.002 |
| None | D4 pond | - | 0.016 | 0.011 | 0.009 | 0.008 | 0.011 | 0.009 | 0.008 |
| 50 % | 0.009 | 0.008 | 0.006 | 0.005 | 0.004 | 0.006 | 0.005 | 0.004 |
| 75 % | 0.005 | 0.004 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| 90 % | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| None | D4 stream | - | 0.087 | 0.045 | 0.030 | 0.023 | 0.045 | 0.030 | 0.023 |
| 50 % | 0.123 | 0.043 | 0.023 | 0.015 | 0.011 | 0.023 | 0.015 | 0.011 |
| 75 % | 0.061 | 0.022 | 0.011 | 0.008 | 0.006 | 0.011 | 0.008 | 0.006 |
| 90 % | 0.025 | 0.009 | 0.005 | 0.003 | 0.002 | 0.005 | 0.003 | 0.002 |
| None | D5 pond | - | 0.014 | 0.010 | 0.008 | 0.007 | 0.010 | 0.008 | 0.007 |
| 50 % | 0.008 | 0.007 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| 75 % | 0.004 | 0.004 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| 90 % | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| None | D5 stream | - | 0.094 | 0.049 | 0.033 | 0.025 | 0.049 | 0.033 | 0.025 |
| 50 % | 0.133 | 0.047 | 0.024 | 0.016 | 0.012 | 0.024 | 0.016 | 0.012 |
| 75 % | 0.067 | 0.024 | 0.012 | 0.008 | 0.006 | 0.012 | 0.008 | 0.006 |
| 90 % | 0.027 | 0.009 | 0.005 | 0.003 | 0.002 | 0.005 | 0.003 | 0.002 |
| None | R1 pond | - | 0.022 | 0.018 | 0.017 | 0.016 | 0.012 | 0.011 | 0.008 |
| 50 % | 0.017 | 0.016 | 0.014 | 0.013 | 0.013 | 0.008 | 0.007 | 0.005 |
| 75 % | 0.014 | 0.013 | 0.012 | 0.012 | 0.011 | 0.006 | 0.006 | 0.003 |
| 90 % | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.005 | 0.005 | 0.003 |
| None | R1 stream | - | 0.686 | 0.686 | 0.686 | 0.686 | 0.289 | 0.289 | 0.147 |
| 50 % | 0.686 | 0.686 | 0.686 | 0.686 | 0.686 | 0.289 | 0.289 | 0.147 |
| 75 % | 0.686 | 0.686 | 0.686 | 0.686 | 0.686 | 0.289 | 0.289 | 0.147 |
| 90 % | 0.686 | 0.686 | 0.686 | 0.686 | 0.686 | 0.289 | 0.289 | 0.147 |
| None | R3 stream | - | 0.404 | 0.404 | 0.404 | 0.404 | 0.182 | 0.182 | 0.095 |
| 50 % | 0.404 | 0.404 | 0.404 | 0.404 | 0.404 | 0.182 | 0.182 | 0.095 |
| 75 % | 0.404 | 0.404 | 0.404 | 0.404 | 0.404 | 0.182 | 0.182 | 0.095 |
| 90 % | 0.404 | 0.404 | 0.404 | 0.404 | 0.404 | 0.182 | 0.182 | 0.095 |
| None | R4 stream (winter cereals as surrogate crop) | Not calculated – no mitigation required. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| ***Oilseed rape (winter), 2x60 g a.s./ha, BBCH 31 (single application)*** | | | | | | | | | |
| None | D2 ditch | - | 0.104 | 0.076 | 0.076 | 0.076 | 0.076 | 0.076 | 0.076 |
| 50 % | 0.193 | 0.076 | 0.076 | 0.076 | 0.076 | 0.076 | 0.076 | 0.076 |
| 75 % | 0.096 | 0.076 | 0.076 | 0.076 | 0.076 | 0.076 | 0.076 | 0.076 |
| 90 % | 0.076 | 0.076 | 0.076 | 0.076 | 0.076 | 0.076 | 0.076 | 0.076 |
| None | D2 stream | - | 0.125 | 0.066 | 0.050 | 0.050 | 0.066 | 0.050 | 0.050 |
| 50 % | 0.171 | 0.063 | 0.050 | 0.050 | 0.050 | 0.050 | 0.050 | 0.050 |
| 75 % | 0.086 | 0.050 | 0.050 | 0.050 | 0.050 | 0.050 | 0.050 | 0.050 |
| 90 % | 0.050 | 0.050 | 0.050 | 0.050 | 0.050 | 0.050 | 0.050 | 0.050 |
| None | D3 ditch | - | 0.103 | 0.055 | 0.037 | 0.028 | 0.055 | 0.037 | 0.028 |
| 50 % | 0.190 | 0.051 | 0.027 | 0.019 | 0.014 | 0.027 | 0.019 | 0.014 |
| 75 % | 0.095 | 0.026 | 0.014 | 0.009 | 0.007 | 0.014 | 0.009 | 0.007 |
| 90 % | 0.038 | 0.010 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| None | D4 pond | - | 0.011 | 0.008 | 0.007 | 0.005 | 0.008 | 0.007 | 0.005 |
| 50 % | 0.007 | 0.006 | 0.004 | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 |
| 75 % | 0.003 | 0.003 | 0.002 | 0.002 | 0.001 | 0.002 | 0.002 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| None | D4 stream | - | 0.104 | 0.055 | 0.038 | 0.029 | 0.055 | 0.038 | 0.029 |
| 50 % | 0.142 | 0.052 | 0.027 | 0.019 | 0.014 | 0.027 | 0.019 | 0.014 |
| 75 % | 0.071 | 0.026 | 0.014 | 0.009 | 0.007 | 0.014 | 0.009 | 0.007 |
| 90 % | 0.028 | 0.010 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| None | D5 pond | - | 0.011 | 0.008 | 0.007 | 0.005 | 0.008 | 0.007 | 0.005 |
| 50 % | 0.007 | 0.006 | 0.004 | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 |
| 75 % | 0.003 | 0.003 | 0.002 | 0.002 | 0.001 | 0.002 | 0.002 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| None | D5 stream | - | 0.111 | 0.059 | 0.040 | 0.031 | 0.059 | 0.040 | 0.031 |
| 50 % | 0.151 | 0.055 | 0.029 | 0.020 | 0.015 | 0.029 | 0.020 | 0.015 |
| 75 % | 0.076 | 0.028 | 0.015 | 0.010 | 0.008 | 0.015 | 0.010 | 0.008 |
| 90 % | 0.030 | 0.011 | 0.006 | 0.004 | 0.003 | 0.006 | 0.004 | 0.003 |
| None | R1 pond | - | 0.011 | 0.008 | 0.007 | 0.007 | 0.008 | 0.007 | 0.005 |
| 50 % | 0.007 | 0.007 | 0.006 | 0.005 | 0.005 | 0.004 | 0.003 | 0.003 |
| 75 % | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.003 | 0.002 | 0.001 |
| 90 % | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.002 | 0.002 | 0.001 |
| None | R1 stream | - | 0.231 | 0.231 | 0.231 | 0.231 | 0.097 | 0.097 | 0.050 |
| 50 % | 0.231 | 0.231 | 0.231 | 0.231 | 0.231 | 0.097 | 0.097 | 0.050 |
| 75 % | 0.231 | 0.231 | 0.231 | 0.231 | 0.231 | 0.097 | 0.097 | 0.050 |
| 90 % | 0.231 | 0.231 | 0.231 | 0.231 | 0.231 | 0.097 | 0.097 | 0.050 |
| None | R3 stream | - | 0.404 | 0.404 | 0.404 | 0.404 | 0.182 | 0.182 | 0.095 |
| 50 % | 0.404 | 0.404 | 0.404 | 0.404 | 0.404 | 0.182 | 0.182 | 0.095 |
| 75 % | 0.404 | 0.404 | 0.404 | 0.404 | 0.404 | 0.182 | 0.182 | 0.095 |
| 90 % | 0.404 | 0.404 | 0.404 | 0.404 | 0.404 | 0.182 | 0.182 | 0.095 |
| None | R4 stream (winter cereals as surrogate crop) | Not calculated – no mitigation required. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| ***Oilseed rape (winter), 1x60 g a.s./ha, BBCH 11*** | | | | | | | | | |
| None | D2 ditch | - | 0.104 | 0.069 | 0.069 | 0.069 | 0.069 | 0.069 | 0.069 |
| 50 % | 0.193 | 0.069 | 0.069 | 0.069 | 0.069 | 0.069 | 0.069 | 0.069 |
| 75 % | 0.096 | 0.069 | 0.069 | 0.069 | 0.069 | 0.069 | 0.069 | 0.069 |
| 90 % | 0.069 | 0.069 | 0.069 | 0.069 | 0.069 | 0.069 | 0.069 | 0.069 |
| None | D2 stream | - | 0.125 | 0.066 | 0.045 | 0.044 | 0.066 | 0.045 | 0.044 |
| 50 % | 0.171 | 0.063 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 |
| 75 % | 0.086 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 |
| 90 % | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 |
| None | D3 ditch | - | 0.104 | 0.055 | 0.038 | 0.029 | 0.055 | 0.038 | 0.029 |
| 50 % | 0.191 | 0.052 | 0.027 | 0.019 | 0.014 | 0.027 | 0.019 | 0.014 |
| 75 % | 0.095 | 0.026 | 0.014 | 0.009 | 0.007 | 0.014 | 0.009 | 0.007 |
| 90 % | 0.038 | 0.010 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| None | D4 pond | - | 0.011 | 0.008 | 0.007 | 0.005 | 0.008 | 0.007 | 0.005 |
| 50 % | 0.007 | 0.006 | 0.004 | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 |
| 75 % | 0.003 | 0.003 | 0.002 | 0.002 | 0.001 | 0.002 | 0.002 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| None | D4 stream | - | 0.120 | 0.064 | 0.044 | 0.033 | 0.064 | 0.044 | 0.033 |
| 50 % | 0.164 | 0.060 | 0.032 | 0.022 | 0.017 | 0.032 | 0.022 | 0.017 |
| 75 % | 0.082 | 0.030 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 90 % | 0.033 | 0.012 | 0.006 | 0.004 | 0.003 | 0.006 | 0.004 | 0.003 |
| None | D5 pond | - | 0.011 | 0.008 | 0.007 | 0.005 | 0.008 | 0.007 | 0.005 |
| 50 % | 0.007 | 0.006 | 0.004 | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 |
| 75 % | 0.003 | 0.003 | 0.002 | 0.002 | 0.001 | 0.002 | 0.002 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| None | D5 stream | - | 0.130 | 0.069 | 0.047 | 0.036 | 0.069 | 0.047 | 0.036 |
| 50 % | 0.177 | 0.065 | 0.034 | 0.023 | 0.018 | 0.034 | 0.023 | 0.018 |
| 75 % | 0.089 | 0.032 | 0.017 | 0.012 | 0.009 | 0.017 | 0.012 | 0.009 |
| 90 % | 0.035 | 0.013 | 0.007 | 0.005 | 0.004 | 0.007 | 0.005 | 0.004 |
| None | R1 pond | - | 0.011 | 0.008 | 0.007 | 0.005 | 0.008 | 0.007 | 0.005 |
| 50 % | 0.007 | 0.006 | 0.004 | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 |
| 75 % | 0.003 | 0.003 | 0.002 | 0.002 | 0.001 | 0.002 | 0.002 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| None | R1 stream | - | 0.092 | 0.049 | 0.033 | 0.025 | 0.049 | 0.033 | 0.025 |
| 50 % | 0.126 | 0.046 | 0.024 | 0.017 | 0.013 | 0.024 | 0.017 | 0.013 |
| 75 % | 0.063 | 0.023 | 0.012 | 0.008 | 0.006 | 0.012 | 0.008 | 0.006 |
| 90 % | 0.025 | 0.009 | 0.005 | 0.004 | 0.004 | 0.005 | 0.003 | 0.003 |
| None | R3 stream | - | 0.483 | 0.483 | 0.483 | 0.483 | 0.220 | 0.220 | 0.115 |
| 50 % | 0.483 | 0.483 | 0.483 | 0.483 | 0.483 | 0.220 | 0.220 | 0.115 |
| 75 % | 0.483 | 0.483 | 0.483 | 0.483 | 0.483 | 0.220 | 0.220 | 0.115 |
| 90 % | 0.483 | 0.483 | 0.483 | 0.483 | 0.483 | 0.220 | 0.220 | 0.115 |
| None | R4 stream (winter cereals as surrogate crop) | Not calculated – no mitigation required. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| ***Oilseed rape (spring), 2x60 g a.s./ha, BBCH 31*** | | | | | | | | | |
| None | D1 ditch | - | 0.156 | 0.081 | 0.054 | 0.041 | 0.081 | 0.054 | 0.041 |
| 50 % | 0.301 | 0.078 | 0.040 | 0.027 | 0.021 | 0.040 | 0.027 | 0.021 |
| 75 % | 0.150 | 0.039 | 0.020 | 0.014 | 0.010 | 0.020 | 0.014 | 0.010 |
| 90 % | 0.060 | 0.016 | 0.008 | 0.006 | 0.004 | 0.008 | 0.006 | 0.004 |
| None | D1 stream | - | 0.103 | 0.053 | 0.036 | 0.027 | 0.053 | 0.036 | 0.027 |
| 50 % | 0.146 | 0.051 | 0.027 | 0.018 | 0.014 | 0.027 | 0.018 | 0.014 |
| 75 % | 0.073 | 0.026 | 0.013 | 0.009 | 0.007 | 0.013 | 0.009 | 0.007 |
| 90 % | 0.029 | 0.010 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| None | D3 ditch | - | 0.087 | 0.045 | 0.030 | 0.023 | 0.045 | 0.030 | 0.023 |
| 50 % | 0.167 | 0.043 | 0.022 | 0.015 | 0.011 | 0.022 | 0.015 | 0.011 |
| 75 % | 0.083 | 0.022 | 0.011 | 0.008 | 0.006 | 0.011 | 0.008 | 0.006 |
| 90 % | 0.033 | 0.009 | 0.004 | 0.003 | 0.002 | 0.004 | 0.003 | 0.002 |
| None | D4 pond | - | 0.017 | 0.012 | 0.009 | 0.008 | 0.012 | 0.009 | 0.008 |
| 50 % | 0.010 | 0.008 | 0.006 | 0.005 | 0.004 | 0.006 | 0.005 | 0.004 |
| 75 % | 0.005 | 0.004 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| 90 % | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| None | D4 stream | - | 0.097 | 0.050 | 0.034 | 0.026 | 0.050 | 0.034 | 0.026 |
| 50 % | 0.137 | 0.048 | 0.025 | 0.017 | 0.013 | 0.025 | 0.017 | 0.013 |
| 75 % | 0.068 | 0.024 | 0.013 | 0.008 | 0.006 | 0.013 | 0.008 | 0.006 |
| 90 % | 0.027 | 0.010 | 0.005 | 0.003 | 0.003 | 0.005 | 0.003 | 0.003 |
| None | D5 pond | - | 0.016 | 0.011 | 0.009 | 0.007 | 0.011 | 0.009 | 0.007 |
| 50 % | 0.009 | 0.008 | 0.005 | 0.004 | 0.004 | 0.005 | 0.004 | 0.004 |
| 75 % | 0.005 | 0.004 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| 90 % | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| None | D5 stream | - | 0.102 | 0.053 | 0.036 | 0.027 | 0.053 | 0.036 | 0.027 |
| 50 % | 0.144 | 0.051 | 0.026 | 0.018 | 0.013 | 0.026 | 0.018 | 0.013 |
| 75 % | 0.072 | 0.025 | 0.013 | 0.009 | 0.007 | 0.013 | 0.009 | 0.007 |
| 90 % | 0.029 | 0.010 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| None | R1 pond | - | 0.044 | 0.040 | 0.037 | 0.036 | 0.023 | 0.020 | 0.013 |
| 50 % | 0.038 | 0.037 | 0.035 | 0.034 | 0.034 | 0.017 | 0.016 | 0.009 |
| 75 % | 0.034 | 0.034 | 0.033 | 0.033 | 0.033 | 0.014 | 0.014 | 0.008 |
| 90 % | 0.033 | 0.033 | 0.033 | 0.033 | 0.032 | 0.013 | 0.013 | 0.007 |
| None | R1 stream | - | 0.765 | 0.765 | 0.765 | 0.765 | 0.347 | 0.347 | 0.182 |
| 50 % | 0.765 | 0.765 | 0.765 | 0.765 | 0.765 | 0.347 | 0.347 | 0.182 |
| 75 % | 0.765 | 0.765 | 0.765 | 0.765 | 0.765 | 0.347 | 0.347 | 0.182 |
| 90 % | 0.765 | 0.765 | 0.765 | 0.765 | 0.765 | 0.347 | 0.347 | 0.182 |
| None | R3 stream (legumes as surrogate crop) | - | 0.643 | 0.643 | 0.643 | 0.643 | 0.282 | 0.282 | 0.146 |
| 50 % | 0.643 | 0.643 | 0.643 | 0.643 | 0.643 | 0.282 | 0.282 | 0.146 |
| 75 % | 0.643 | 0.643 | 0.643 | 0.643 | 0.643 | 0.282 | 0.282 | 0.146 |
| 90 % | 0.643 | 0.643 | 0.643 | 0.643 | 0.643 | 0.282 | 0.282 | 0.146 |
| None | R4 stream (legumes as surrogate crop) | - | 1.054 | 1.054 | 1.054 | 1.054 | 0.470 | 0.470 | 0.244 |
| 50 % | 1.054 | 1.054 | 1.054 | 1.054 | 1.054 | 0.470 | 0.470 | 0.244 |
| 75 % | 1.054 | 1.054 | 1.054 | 1.054 | 1.054 | 0.470 | 0.470 | 0.244 |
| 90 % | 1.054 | 1.054 | 1.054 | 1.054 | 1.054 | 0.470 | 0.470 | 0.244 |
| ***Oilseed rape (spring), 2x60 g a.s./ha, BBCH 31 (single application)*** | | | | | | | | | |
| None | D1 ditch | - | 0.104 | 0.055 | 0.038 | 0.029 | 0.055 | 0.038 | 0.029 |
| 50 % | 0.192 | 0.052 | 0.028 | 0.019 | 0.014 | 0.028 | 0.019 | 0.014 |
| 75 % | 0.096 | 0.026 | 0.014 | 0.009 | 0.007 | 0.014 | 0.009 | 0.007 |
| 90 % | 0.038 | 0.010 | 0.006 | 0.004 | 0.003 | 0.006 | 0.004 | 0.003 |
| None | D1 stream | - | 0.123 | 0.065 | 0.045 | 0.034 | 0.065 | 0.045 | 0.034 |
| 50 % | 0.168 | 0.061 | 0.033 | 0.022 | 0.017 | 0.033 | 0.022 | 0.017 |
| 75 % | 0.084 | 0.031 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 90 % | 0.034 | 0.012 | 0.007 | 0.004 | 0.003 | 0.007 | 0.004 | 0.003 |
| None | D3 ditch | - | 0.103 | 0.055 | 0.037 | 0.028 | 0.055 | 0.037 | 0.028 |
| 50 % | 0.190 | 0.052 | 0.027 | 0.019 | 0.014 | 0.027 | 0.019 | 0.014 |
| 75 % | 0.095 | 0.026 | 0.014 | 0.009 | 0.007 | 0.014 | 0.009 | 0.007 |
| 90 % | 0.038 | 0.010 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| None | D4 pond | - | 0.011 | 0.008 | 0.007 | 0.005 | 0.008 | 0.007 | 0.005 |
| 50 % | 0.007 | 0.006 | 0.004 | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 |
| 75 % | 0.003 | 0.003 | 0.002 | 0.002 | 0.001 | 0.002 | 0.002 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| None | D4 stream | - | 0.114 | 0.060 | 0.041 | 0.031 | 0.060 | 0.041 | 0.031 |
| 50 % | 0.156 | 0.057 | 0.030 | 0.021 | 0.016 | 0.030 | 0.021 | 0.016 |
| 75 % | 0.078 | 0.028 | 0.015 | 0.010 | 0.008 | 0.015 | 0.010 | 0.008 |
| 90 % | 0.031 | 0.011 | 0.006 | 0.004 | 0.003 | 0.006 | 0.004 | 0.003 |
| None | D5 pond | - | 0.011 | 0.008 | 0.007 | 0.005 | 0.008 | 0.007 | 0.005 |
| 50 % | 0.007 | 0.006 | 0.004 | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 |
| 75 % | 0.003 | 0.003 | 0.002 | 0.002 | 0.001 | 0.002 | 0.002 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| None | D5 stream | - | 0.121 | 0.064 | 0.044 | 0.033 | 0.064 | 0.044 | 0.033 |
| 50 % | 0.166 | 0.060 | 0.032 | 0.022 | 0.017 | 0.032 | 0.022 | 0.017 |
| 75 % | 0.083 | 0.030 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 90 % | 0.033 | 0.012 | 0.006 | 0.004 | 0.003 | 0.006 | 0.004 | 0.003 |
| None | R1 pond | - | 0.042 | 0.039 | 0.038 | 0.037 | 0.020 | 0.019 | 0.011 |
| 50 % | 0.038 | 0.037 | 0.036 | 0.035 | 0.034 | 0.016 | 0.016 | 0.009 |
| 75 % | 0.035 | 0.035 | 0.034 | 0.033 | 0.033 | 0.015 | 0.014 | 0.008 |
| 90 % | 0.033 | 0.033 | 0.033 | 0.033 | 0.033 | 0.014 | 0.013 | 0.007 |
| None | R1 stream | - | 0.765 | 0.765 | 0.765 | 0.765 | 0.347 | 0.347 | 0.182 |
| 50 % | 0.765 | 0.765 | 0.765 | 0.765 | 0.765 | 0.347 | 0.347 | 0.182 |
| 75 % | 0.765 | 0.765 | 0.765 | 0.765 | 0.765 | 0.347 | 0.347 | 0.182 |
| 90 % | 0.765 | 0.765 | 0.765 | 0.765 | 0.765 | 0.347 | 0.347 | 0.182 |
| None | R3 stream (legumes as surrogate crop) | - | 0.643 | 0.643 | 0.643 | 0.643 | 0.282 | 0.282 | 0.146 |
| 50 % | 0.643 | 0.643 | 0.643 | 0.643 | 0.643 | 0.282 | 0.282 | 0.146 |
| 75 % | 0.643 | 0.643 | 0.643 | 0.643 | 0.643 | 0.282 | 0.282 | 0.146 |
| 90 % | 0.643 | 0.643 | 0.643 | 0.643 | 0.643 | 0.282 | 0.282 | 0.146 |
| None | R4 stream (legumes as surrogate crop) | - | 1.054 | 1.054 | 1.054 | 1.054 | 0.470 | 0.470 | 0.244 |
| 50 % | 1.054 | 1.054 | 1.054 | 1.054 | 1.054 | 0.470 | 0.470 | 0.244 |
| 75 % | 1.054 | 1.054 | 1.054 | 1.054 | 1.054 | 0.470 | 0.470 | 0.244 |
| 90 % | 1.054 | 1.054 | 1.054 | 1.054 | 1.054 | 0.470 | 0.470 | 0.244 |
| ***Sugar beet, 2x50 g a.s./ha, BBCH 12*** | | | | | | | | | |
| None | D3 ditch | - | 0.072 | 0.037 | 0.025 | 0.019 | 0.037 | 0.025 | 0.019 |
| 50 % | 0.114 | 0.036 | 0.019 | 0.013 | 0.010 | 0.019 | 0.013 | 0.010 |
| 75 % | 0.057 | 0.018 | 0.009 | 0.006 | 0.005 | 0.009 | 0.006 | 0.005 |
| 90 % | 0.023 | 0.007 | 0.004 | 0.003 | 0.002 | 0.004 | 0.003 | 0.002 |
| None | D4 pond | - | 0.014 | 0.010 | 0.008 | 0.007 | 0.010 | 0.008 | 0.007 |
| 50 % | 0.008 | 0.007 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| 75 % | 0.004 | 0.004 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| 90 % | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| None | D4 stream | - | 0.077 | 0.040 | 0.027 | 0.020 | 0.040 | 0.027 | 0.020 |
| 50 % | 0.094 | 0.039 | 0.020 | 0.014 | 0.010 | 0.020 | 0.014 | 0.010 |
| 75 % | 0.047 | 0.019 | 0.010 | 0.007 | 0.005 | 0.010 | 0.007 | 0.005 |
| 90 % | 0.019 | 0.008 | 0.004 | 0.003 | 0.002 | 0.004 | 0.003 | 0.002 |
| None | D5 pond (maize as surrogate crop) | - | 0.013 | 0.009 | 0.007 | 0.006 | 0.009 | 0.007 | 0.006 |
| 50 % | 0.007 | 0.007 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| 75 % | 0.004 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| 90 % | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| None | D5 stream (maize as surrogate crop) | - | 0.087 | 0.045 | 0.031 | 0.023 | 0.045 | 0.031 | 0.023 |
| 50 % | 0.107 | 0.044 | 0.023 | 0.015 | 0.012 | 0.023 | 0.015 | 0.012 |
| 75 % | 0.053 | 0.022 | 0.011 | 0.008 | 0.006 | 0.011 | 0.008 | 0.006 |
| 90 % | 0.021 | 0.009 | 0.005 | 0.003 | 0.002 | 0.005 | 0.003 | 0.002 |
| None | R1 pond | - | 0.014 | 0.010 | 0.008 | 0.007 | 0.010 | 0.008 | 0.007 |
| 50 % | 0.008 | 0.007 | 0.005 | 0.005 | 0.004 | 0.005 | 0.004 | 0.003 |
| 75 % | 0.005 | 0.004 | 0.004 | 0.003 | 0.003 | 0.003 | 0.002 | 0.002 |
| 90 % | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | 0.002 | 0.001 | 0.001 |
| None | R1 stream | - | 0.091 | 0.091 | 0.091 | 0.091 | 0.037 | 0.037 | 0.018 |
| 50 % | 0.091 | 0.091 | 0.091 | 0.091 | 0.091 | 0.037 | 0.037 | 0.018 |
| 75 % | 0.091 | 0.091 | 0.091 | 0.091 | 0.091 | 0.037 | 0.037 | 0.018 |
| 90 % | 0.091 | 0.091 | 0.091 | 0.091 | 0.091 | 0.037 | 0.037 | 0.018 |
| None | R3 stream | - | 0.328 | 0.328 | 0.328 | 0.328 | 0.150 | 0.150 | 0.078 |
| 50 % | 0.328 | 0.328 | 0.328 | 0.328 | 0.328 | 0.150 | 0.150 | 0.078 |
| 75 % | 0.328 | 0.328 | 0.328 | 0.328 | 0.328 | 0.150 | 0.150 | 0.078 |
| 90 % | 0.328 | 0.328 | 0.328 | 0.328 | 0.328 | 0.150 | 0.150 | 0.078 |
| None | R4 stream (maize as surrogate crop) | - | 0.884 | 0.884 | 0.884 | 0.884 | 0.400 | 0.400 | 0.209 |
| 50 % | 0.884 | 0.884 | 0.884 | 0.884 | 0.884 | 0.400 | 0.400 | 0.209 |
| 75 % | 0.884 | 0.884 | 0.884 | 0.884 | 0.884 | 0.400 | 0.400 | 0.209 |
| 90 % | 0.884 | 0.884 | 0.884 | 0.884 | 0.884 | 0.400 | 0.400 | 0.209 |
| ***Sugar beet, 2x50 g a.s./ha, BBCH 12 (single application) a)*** | | | | | | | | | |
| None | D3 ditch | - | 0.086 | 0.046 | 0.031 | 0.024 | 0.046 | 0.031 | 0.024 |
| 50 % | 0.131 | 0.043 | 0.023 | 0.016 | 0.012 | 0.023 | 0.016 | 0.012 |
| 75 % | 0.066 | 0.021 | 0.011 | 0.008 | 0.006 | 0.011 | 0.008 | 0.006 |
| 90 % | 0.026 | 0.009 | 0.005 | 0.003 | 0.002 | 0.005 | 0.003 | 0.002 |
| None | D4 pond | - | 0.009 | 0.007 | 0.005 | 0.005 | 0.007 | 0.005 | 0.005 |
| 50 % | 0.005 | 0.005 | 0.003 | 0.003 | 0.002 | 0.003 | 0.003 | 0.002 |
| 75 % | 0.003 | 0.002 | 0.002 | 0.001 | 0.001 | 0.002 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | 0.001 | < 0.001 | 0.001 | 0.001 | < 0.001 |
| None | D4 stream | - | 0.090 | 0.048 | 0.033 | 0.025 | 0.048 | 0.033 | 0.025 |
| 50 % | 0.107 | 0.045 | 0.024 | 0.016 | 0.012 | 0.024 | 0.016 | 0.012 |
| 75 % | 0.053 | 0.023 | 0.012 | 0.008 | 0.006 | 0.012 | 0.008 | 0.006 |
| 90 % | 0.021 | 0.009 | 0.005 | 0.003 | 0.002 | 0.005 | 0.003 | 0.002 |
| None | D5 pond (maize as surrogate crop) | - | 0.009 | 0.007 | 0.005 | 0.005 | 0.007 | 0.005 | 0.005 |
| 50 % | 0.005 | 0.005 | 0.003 | 0.003 | 0.002 | 0.003 | 0.003 | 0.002 |
| 75 % | 0.003 | 0.002 | 0.002 | 0.001 | 0.001 | 0.002 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | 0.001 | < 0.001 | 0.001 | 0.001 | < 0.001 |
| None | D5 stream (maize as surrogate crop) | - | 0.099 | 0.052 | 0.036 | 0.027 | 0.052 | 0.036 | 0.027 |
| 50 % | 0.117 | 0.049 | 0.026 | 0.018 | 0.014 | 0.026 | 0.018 | 0.014 |
| 75 % | 0.059 | 0.025 | 0.013 | 0.009 | 0.007 | 0.013 | 0.009 | 0.007 |
| 90 % | 0.023 | 0.010 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| None | R1 pond | - | 0.009 | 0.007 | 0.005 | 0.005 | 0.007 | 0.005 | 0.005 |
| 50 % | 0.005 | 0.005 | 0.003 | 0.003 | 0.002 | 0.003 | 0.003 | 0.002 |
| 75 % | 0.003 | 0.002 | 0.002 | 0.001 | 0.001 | 0.002 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | < 0.001 |
| None | R1 stream | - | 0.076 | 0.040 | 0.028 | 0.022 | 0.040 | 0.028 | 0.021 |
| 50 % | 0.091 | 0.038 | 0.022 | 0.022 | 0.022 | 0.020 | 0.014 | 0.011 |
| 75 % | 0.045 | 0.022 | 0.022 | 0.022 | 0.022 | 0.010 | 0.009 | 0.005 |
| 90 % | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.009 | 0.009 | 0.004 |
| None | R3 stream | - | 0.108 | 0.057 | 0.052 | 0.052 | 0.057 | 0.039 | 0.030 |
| 50 % | 0.128 | 0.054 | 0.052 | 0.052 | 0.052 | 0.029 | 0.024 | 0.015 |
| 75 % | 0.064 | 0.052 | 0.052 | 0.052 | 0.052 | 0.024 | 0.024 | 0.012 |
| 90 % | 0.052 | 0.052 | 0.052 | 0.052 | 0.052 | 0.024 | 0.024 | 0.012 |
| None | R4 stream (maize as surrogate crop) | - | 0.469 | 0.469 | 0.469 | 0.469 | 0.213 | 0.213 | 0.112 |
| 50 % | 0.469 | 0.469 | 0.469 | 0.469 | 0.469 | 0.213 | 0.213 | 0.112 |
| 75 % | 0.469 | 0.469 | 0.469 | 0.469 | 0.469 | 0.213 | 0.213 | 0.112 |
| 90 % | 0.469 | 0.469 | 0.469 | 0.469 | 0.469 | 0.213 | 0.213 | 0.112 |
| ***Bulb vegetables (flower bulbs & flower tubers), 1x46 g a.s./ha, BBCH 12*** | | | | | | | | | |
| None | D3 ditch | - | 0.079 | 0.042 | 0.029 | 0.022 | 0.042 | 0.029 | 0.022 |
| 50 % | 0.146 | 0.040 | 0.021 | 0.014 | 0.011 | 0.021 | 0.014 | 0.011 |
| 75 % | 0.073 | 0.020 | 0.010 | 0.007 | 0.005 | 0.010 | 0.007 | 0.005 |
| 90 % | 0.029 | 0.008 | 0.004 | 0.003 | 0.002 | 0.004 | 0.003 | 0.002 |
| None | D4 pond | - | 0.009 | 0.006 | 0.005 | 0.004 | 0.006 | 0.005 | 0.004 |
| 50 % | 0.005 | 0.004 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| 75 % | 0.003 | 0.002 | 0.002 | 0.001 | 0.001 | 0.002 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | < 0.001 | < 0.001 | 0.001 | < 0.001 | < 0.001 |
| None | D4 stream | - | 0.082 | 0.043 | 0.030 | 0.023 | 0.043 | 0.030 | 0.023 |
| 50 % | 0.112 | 0.041 | 0.022 | 0.015 | 0.011 | 0.022 | 0.015 | 0.011 |
| 75 % | 0.056 | 0.020 | 0.011 | 0.007 | 0.006 | 0.011 | 0.007 | 0.006 |
| 90 % | 0.022 | 0.008 | 0.004 | 0.003 | 0.002 | 0.004 | 0.003 | 0.002 |
| None | D5 pond (legumes as surrogate crop) | Not calculated – no mitigation needed. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | D5 stream (legumes as surrogate crop) | Not calculated – no mitigation needed. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | D6 ditch (1st) | - | 0.079 | 0.042 | 0.029 | 0.022 | 0.042 | 0.029 | 0.022 |
| 50 % | 0.146 | 0.040 | 0.021 | 0.014 | 0.011 | 0.021 | 0.014 | 0.011 |
| 75 % | 0.073 | 0.020 | 0.011 | 0.007 | 0.005 | 0.011 | 0.007 | 0.005 |
| 90 % | 0.029 | 0.008 | 0.004 | 0.003 | 0.002 | 0.004 | 0.003 | 0.002 |
| None | D6 ditch (2nd) | - | 0.080 | 0.074 | 0.074 | 0.074 | 0.074 | 0.074 | 0.074 |
| 50 % | 0.147 | 0.074 | 0.074 | 0.074 | 0.074 | 0.074 | 0.074 | 0.074 |
| 75 % | 0.074 | 0.074 | 0.074 | 0.074 | 0.074 | 0.074 | 0.074 | 0.074 |
| 90 % | 0.074 | 0.074 | 0.074 | 0.074 | 0.074 | 0.074 | 0.074 | 0.074 |
| None | R1 pond | - | 0.013 | 0.011 | 0.010 | 0.009 | 0.007 | 0.006 | 0.004 |
| 50 % | 0.010 | 0.010 | 0.009 | 0.008 | 0.008 | 0.005 | 0.004 | 0.003 |
| 75 % | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.004 | 0.003 | 0.002 |
| 90 % | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.003 | 0.003 | 0.002 |
| None | R1 stream | - | 0.251 | 0.251 | 0.251 | 0.251 | 0.103 | 0.103 | 0.052 |
| 50 % | 0.251 | 0.251 | 0.251 | 0.251 | 0.251 | 0.103 | 0.103 | 0.052 |
| 75 % | 0.251 | 0.251 | 0.251 | 0.251 | 0.251 | 0.103 | 0.103 | 0.052 |
| 90 % | 0.251 | 0.251 | 0.251 | 0.251 | 0.251 | 0.103 | 0.103 | 0.052 |
| None | R2 stream | - | 0.096 | 0.096 | 0.096 | 0.096 | 0.049 | 0.040 | 0.026 |
| 50 % | 0.127 | 0.096 | 0.096 | 0.096 | 0.096 | 0.040 | 0.040 | 0.020 |
| 75 % | 0.096 | 0.096 | 0.096 | 0.096 | 0.096 | 0.040 | 0.040 | 0.020 |
| 90 % | 0.096 | 0.096 | 0.096 | 0.096 | 0.096 | 0.040 | 0.040 | 0.020 |
| None | R3 stream | - | 0.099 | 0.052 | 0.036 | 0.027 | 0.052 | 0.036 | 0.027 |
| 50 % | 0.135 | 0.049 | 0.026 | 0.022 | 0.022 | 0.026 | 0.018 | 0.014 |
| 75 % | 0.067 | 0.025 | 0.022 | 0.022 | 0.022 | 0.013 | 0.010 | 0.007 |
| 90 % | 0.027 | 0.022 | 0.022 | 0.022 | 0.022 | 0.010 | 0.010 | 0.005 |
| None | R4 stream | - | 0.659 | 0.659 | 0.659 | 0.659 | 0.299 | 0.299 | 0.157 |
| 50 % | 0.659 | 0.659 | 0.659 | 0.659 | 0.659 | 0.299 | 0.299 | 0.157 |
| 75 % | 0.659 | 0.659 | 0.659 | 0.659 | 0.659 | 0.299 | 0.299 | 0.157 |
| 90 % | 0.659 | 0.659 | 0.659 | 0.659 | 0.659 | 0.299 | 0.299 | 0.157 |
| ***Bulb vegetables (flower bulbs & flower tubers), 2x34 g a.s./ha, BBCH 20*** | | | | | | | | | |
| None | D3 ditch | - | 0.049 | 0.025 | 0.017 | 0.013 | 0.025 | 0.017 | 0.013 |
| 50 % | 0.094 | 0.024 | 0.013 | 0.009 | 0.006 | 0.013 | 0.009 | 0.006 |
| 75 % | 0.047 | 0.012 | 0.006 | 0.004 | 0.003 | 0.006 | 0.004 | 0.003 |
| 90 % | 0.019 | 0.005 | 0.003 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |
| None | D4 pond | - | 0.009 | 0.007 | 0.005 | 0.004 | 0.007 | 0.005 | 0.004 |
| 50 % | 0.005 | 0.005 | 0.003 | 0.003 | 0.002 | 0.003 | 0.003 | 0.002 |
| 75 % | 0.003 | 0.002 | 0.002 | 0.001 | 0.001 | 0.002 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | 0.001 | < 0.001 | 0.001 | 0.001 | < 0.001 |
| None | D4 stream | - | 0.051 | 0.026 | 0.018 | 0.013 | 0.026 | 0.018 | 0.013 |
| 50 % | 0.072 | 0.025 | 0.013 | 0.009 | 0.007 | 0.013 | 0.009 | 0.007 |
| 75 % | 0.036 | 0.013 | 0.007 | 0.004 | 0.003 | 0.007 | 0.004 | 0.003 |
| 90 % | 0.014 | 0.005 | 0.003 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |
| None | D5 pond (legumes as surrogate crop) | Not calculated – no mitigation needed. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | D5 stream (legumes as surrogate crop) | Not calculated – no mitigation needed. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | D6 ditch (1st) | - | 0.070 | 0.036 | 0.024 | 0.018 | 0.036 | 0.024 | 0.018 |
| 50 % | 0.135 | 0.035 | 0.018 | 0.012 | 0.009 | 0.018 | 0.012 | 0.009 |
| 75 % | 0.067 | 0.017 | 0.009 | 0.006 | 0.005 | 0.009 | 0.006 | 0.005 |
| 90 % | 0.027 | 0.007 | 0.004 | 0.002 | 0.002 | 0.004 | 0.002 | 0.002 |
| None | D6 ditch (2nd) | - | 0.049 | 0.026 | 0.017 | 0.013 | 0.026 | 0.017 | 0.013 |
| 50 % | 0.095 | 0.025 | 0.013 | 0.009 | 0.007 | 0.013 | 0.009 | 0.007 |
| 75 % | 0.047 | 0.012 | 0.007 | 0.004 | 0.003 | 0.007 | 0.004 | 0.003 |
| 90 % | 0.019 | 0.005 | 0.003 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |
| None | R1 pond | - | 0.034 | 0.032 | 0.031 | 0.031 | 0.016 | 0.015 | 0.009 |
| 50 % | 0.031 | 0.031 | 0.030 | 0.029 | 0.029 | 0.014 | 0.013 | 0.007 |
| 75 % | 0.029 | 0.029 | 0.029 | 0.028 | 0.028 | 0.012 | 0.012 | 0.006 |
| 90 % | 0.028 | 0.028 | 0.028 | 0.028 | 0.028 | 0.012 | 0.011 | 0.006 |
| None | R1 stream | - | 0.383 | 0.383 | 0.383 | 0.383 | 0.171 | 0.171 | 0.089 |
| 50 % | 0.383 | 0.383 | 0.383 | 0.383 | 0.383 | 0.171 | 0.171 | 0.089 |
| 75 % | 0.383 | 0.383 | 0.383 | 0.383 | 0.383 | 0.171 | 0.171 | 0.089 |
| 90 % | 0.383 | 0.383 | 0.383 | 0.383 | 0.383 | 0.171 | 0.171 | 0.089 |
| None | R2 stream | - | 0.134 | 0.134 | 0.134 | 0.134 | 0.060 | 0.060 | 0.031 |
| 50 % | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 | 0.060 | 0.060 | 0.031 |
| 75 % | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 | 0.060 | 0.060 | 0.031 |
| 90 % | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 | 0.060 | 0.060 | 0.031 |
| None | R3 stream | - | 0.366 | 0.366 | 0.366 | 0.366 | 0.166 | 0.166 | 0.087 |
| 50 % | 0.366 | 0.366 | 0.366 | 0.366 | 0.366 | 0.166 | 0.166 | 0.087 |
| 75 % | 0.366 | 0.366 | 0.366 | 0.366 | 0.366 | 0.166 | 0.166 | 0.087 |
| 90 % | 0.366 | 0.366 | 0.366 | 0.366 | 0.366 | 0.166 | 0.166 | 0.087 |
| None | R4 stream | - | 0.740 | 0.740 | 0.740 | 0.740 | 0.334 | 0.334 | 0.175 |
| 50 % | 0.740 | 0.740 | 0.740 | 0.740 | 0.740 | 0.334 | 0.334 | 0.175 |
| 75 % | 0.740 | 0.740 | 0.740 | 0.740 | 0.740 | 0.334 | 0.334 | 0.175 |
| 90 % | 0.740 | 0.740 | 0.740 | 0.740 | 0.740 | 0.334 | 0.334 | 0.175 |
| ***Bulb vegetables (flower bulbs & flower tubers),, 2x34 g a.s./ha, BBCH 20 (single application)*** | | | | | | | | | |
| None | D3 ditch | - | 0.058 | 0.031 | 0.021 | 0.016 | 0.031 | 0.021 | 0.016 |
| 50 % | 0.108 | 0.029 | 0.015 | 0.011 | 0.008 | 0.015 | 0.011 | 0.008 |
| 75 % | 0.054 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.022 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D4 pond | - | 0.006 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| 50 % | 0.004 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| 75 % | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| None | D4 stream | - | 0.060 | 0.032 | 0.022 | 0.016 | 0.032 | 0.022 | 0.016 |
| 50 % | 0.082 | 0.030 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 75 % | 0.041 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.016 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D5 pond (legumes as surrogate crop) | Not calculated – no mitigation needed. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | D5 stream (legumes as surrogate crop) | Not calculated – no mitigation needed. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | D6 ditch (1st) | - | 0.059 | 0.031 | 0.021 | 0.016 | 0.031 | 0.021 | 0.016 |
| 50 % | 0.109 | 0.029 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 75 % | 0.054 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.022 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D6 ditch (2nd) | - | 0.058 | 0.031 | 0.021 | 0.016 | 0.031 | 0.021 | 0.016 |
| 50 % | 0.107 | 0.029 | 0.015 | 0.011 | 0.008 | 0.015 | 0.011 | 0.008 |
| 75 % | 0.053 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.021 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | R1 pond | - | 0.029 | 0.028 | 0.028 | 0.027 | 0.013 | 0.013 | 0.007 |
| 50 % | 0.028 | 0.027 | 0.027 | 0.026 | 0.026 | 0.012 | 0.011 | 0.006 |
| 75 % | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.011 | 0.011 | 0.006 |
| 90 % | 0.026 | 0.025 | 0.025 | 0.025 | 0.025 | 0.010 | 0.010 | 0.005 |
| None | R1 stream | - | 0.383 | 0.383 | 0.383 | 0.383 | 0.171 | 0.171 | 0.089 |
| 50 % | 0.383 | 0.383 | 0.383 | 0.383 | 0.383 | 0.171 | 0.171 | 0.089 |
| 75 % | 0.383 | 0.383 | 0.383 | 0.383 | 0.383 | 0.171 | 0.171 | 0.089 |
| 90 % | 0.383 | 0.383 | 0.383 | 0.383 | 0.383 | 0.171 | 0.171 | 0.089 |
| None | R2 stream | - | 0.134 | 0.134 | 0.134 | 0.134 | 0.060 | 0.060 | 0.031 |
| 50 % | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 | 0.060 | 0.060 | 0.031 |
| 75 % | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 | 0.060 | 0.060 | 0.031 |
| 90 % | 0.134 | 0.134 | 0.134 | 0.134 | 0.134 | 0.060 | 0.060 | 0.031 |
| None | R3 stream | - | 0.366 | 0.366 | 0.366 | 0.366 | 0.166 | 0.166 | 0.087 |
| 50 % | 0.366 | 0.366 | 0.366 | 0.366 | 0.366 | 0.166 | 0.166 | 0.087 |
| 75 % | 0.366 | 0.366 | 0.366 | 0.366 | 0.366 | 0.166 | 0.166 | 0.087 |
| 90 % | 0.366 | 0.366 | 0.366 | 0.366 | 0.366 | 0.166 | 0.166 | 0.087 |
| None | R4 stream | - | 0.740 | 0.740 | 0.740 | 0.740 | 0.334 | 0.334 | 0.175 |
| 50 % | 0.740 | 0.740 | 0.740 | 0.740 | 0.740 | 0.334 | 0.334 | 0.175 |
| 75 % | 0.740 | 0.740 | 0.740 | 0.740 | 0.740 | 0.334 | 0.334 | 0.175 |
| 90 % | 0.740 | 0.740 | 0.740 | 0.740 | 0.740 | 0.334 | 0.334 | 0.175 |
| ***~~Bulb vegetables (flower bulbs & flower tubers), 2x34 g a.s./ha, BBCH 12~~*** | | | | | | | | | |
| ~~None~~ | ~~D3 ditch~~ | ~~-~~ | ~~0.049~~ | ~~0.025~~ | ~~0.017~~ | ~~0.013~~ | ~~0.025~~ | ~~0.017~~ | ~~0.013~~ |
| ~~50 %~~ | ~~0.094~~ | ~~0.024~~ | ~~0.013~~ | ~~0.009~~ | ~~0.006~~ | ~~0.013~~ | ~~0.009~~ | ~~0.006~~ |
| ~~75 %~~ | ~~0.047~~ | ~~0.012~~ | ~~0.006~~ | ~~0.004~~ | ~~0.003~~ | ~~0.006~~ | ~~0.004~~ | ~~0.003~~ |
| ~~90 %~~ | ~~0.019~~ | ~~0.005~~ | ~~0.003~~ | ~~0.002~~ | ~~0.001~~ | ~~0.003~~ | ~~0.002~~ | ~~0.001~~ |
| ~~None~~ | ~~D4 pond~~ | ~~-~~ | ~~0.010~~ | ~~0.007~~ | ~~0.005~~ | ~~0.004~~ | ~~0.007~~ | ~~0.005~~ | ~~0.004~~ |
| ~~50 %~~ | ~~0.006~~ | ~~0.005~~ | ~~0.003~~ | ~~0.003~~ | ~~0.002~~ | ~~0.003~~ | ~~0.003~~ | ~~0.002~~ |
| ~~75 %~~ | ~~0.003~~ | ~~0.002~~ | ~~0.002~~ | ~~0.001~~ | ~~0.001~~ | ~~0.002~~ | ~~0.001~~ | ~~0.001~~ |
| ~~90 %~~ | ~~0.001~~ | ~~0.001~~ | ~~0.001~~ | ~~0.001~~ | ~~< 0.001~~ | ~~0.001~~ | ~~0.001~~ | ~~< 0.001~~ |
| ~~None~~ | ~~D4 stream~~ | ~~-~~ | ~~0.051~~ | ~~0.026~~ | ~~0.018~~ | ~~0.013~~ | ~~0.026~~ | ~~0.018~~ | ~~0.013~~ |
| ~~50 %~~ | ~~0.072~~ | ~~0.025~~ | ~~0.013~~ | ~~0.009~~ | ~~0.007~~ | ~~0.013~~ | ~~0.009~~ | ~~0.007~~ |
| ~~75 %~~ | ~~0.036~~ | ~~0.013~~ | ~~0.007~~ | ~~0.004~~ | ~~0.003~~ | ~~0.007~~ | ~~0.004~~ | ~~0.003~~ |
| ~~90 %~~ | ~~0.014~~ | ~~0.005~~ | ~~0.003~~ | ~~0.002~~ | ~~0.001~~ | ~~0.003~~ | ~~0.002~~ | ~~0.001~~ |
| ~~None~~ | ~~D5 pond (legumes as surrogate crop)~~ | ~~Not calculated – no mitigation needed.~~ | | | | | | | |
| ~~50 %~~ |
| ~~75 %~~ |
| ~~90 %~~ |
| ~~None~~ | ~~D5 stream (legumes as surrogate crop)~~ | ~~Not calculated – no mitigation needed.~~ | | | | | | | |
| ~~50 %~~ |
| ~~75 %~~ |
| ~~90 %~~ |
| ~~None~~ | ~~D6 ditch (1~~~~st~~~~)~~ | ~~-~~ | ~~0.050~~ | ~~0.026~~ | ~~0.018~~ | ~~0.013~~ | ~~0.026~~ | ~~0.018~~ | ~~0.013~~ |
| ~~50 %~~ | ~~0.097~~ | ~~0.025~~ | ~~0.013~~ | ~~0.009~~ | ~~0.007~~ | ~~0.013~~ | ~~0.009~~ | ~~0.007~~ |
| ~~75 %~~ | ~~0.048~~ | ~~0.013~~ | ~~0.007~~ | ~~0.004~~ | ~~0.003~~ | ~~0.007~~ | ~~0.004~~ | ~~0.003~~ |
| ~~90 %~~ | ~~0.019~~ | ~~0.005~~ | ~~0.003~~ | ~~0.002~~ | ~~0.001~~ | ~~0.003~~ | ~~0.002~~ | ~~0.001~~ |
| ~~None~~ | ~~D6 ditch (2~~~~nd~~~~)~~ | ~~-~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ |
| ~~50 %~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ |
| ~~75 %~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ |
| ~~90 %~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ | ~~0.492~~ |
| ~~None~~ | ~~R1 pond~~ | ~~-~~ | ~~0.027~~ | ~~0.025~~ | ~~0.024~~ | ~~0.023~~ | ~~0.014~~ | ~~0.012~~ | ~~0.008~~ |
| ~~50 %~~ | ~~0.024~~ | ~~0.023~~ | ~~0.022~~ | ~~0.021~~ | ~~0.021~~ | ~~0.011~~ | ~~0.010~~ | ~~0.006~~ |
| ~~75 %~~ | ~~0.021~~ | ~~0.021~~ | ~~0.020~~ | ~~0.020~~ | ~~0.020~~ | ~~0.009~~ | ~~0.009~~ | ~~0.005~~ |
| ~~90 %~~ | ~~0.020~~ | ~~0.020~~ | ~~0.020~~ | ~~0.019~~ | ~~0.019~~ | ~~0.008~~ | ~~0.008~~ | ~~0.004~~ |
| ~~None~~ | ~~R1 stream~~ | ~~-~~ | ~~0.441~~ | ~~0.441~~ | ~~0.441~~ | ~~0.441~~ | ~~0.200~~ | ~~0.200~~ | ~~0.104~~ |
| ~~50 %~~ | ~~0.441~~ | ~~0.441~~ | ~~0.441~~ | ~~0.441~~ | ~~0.441~~ | ~~0.200~~ | ~~0.200~~ | ~~0.104~~ |
| ~~75 %~~ | ~~0.441~~ | ~~0.441~~ | ~~0.441~~ | ~~0.441~~ | ~~0.441~~ | ~~0.200~~ | ~~0.200~~ | ~~0.104~~ |
| ~~90 %~~ | ~~0.441~~ | ~~0.441~~ | ~~0.441~~ | ~~0.441~~ | ~~0.441~~ | ~~0.200~~ | ~~0.200~~ | ~~0.104~~ |
| ~~None~~ | ~~R2 stream~~ |  | ~~0.068~~ | ~~0.068~~ | ~~0.068~~ | ~~0.068~~ | ~~0.030~~ | ~~0.028~~ | ~~0.015~~ |
| ~~50 %~~ | ~~0.081~~ | ~~0.068~~ | ~~0.068~~ | ~~0.068~~ | ~~0.068~~ | ~~0.028~~ | ~~0.028~~ | ~~0.014~~ |
| ~~75 %~~ | ~~0.068~~ | ~~0.068~~ | ~~0.068~~ | ~~0.068~~ | ~~0.068~~ | ~~0.028~~ | ~~0.028~~ | ~~0.014~~ |
| ~~90 %~~ | ~~0.068~~ | ~~0.068~~ | ~~0.068~~ | ~~0.068~~ | ~~0.068~~ | ~~0.028~~ | ~~0.028~~ | ~~0.014~~ |
| ~~None~~ | ~~R3 stream~~ |  | ~~0.075~~ | ~~0.075~~ | ~~0.075~~ | ~~0.075~~ | ~~0.034~~ | ~~0.034~~ | ~~0.018~~ |
| ~~50 %~~ | ~~0.087~~ | ~~0.075~~ | ~~0.075~~ | ~~0.075~~ | ~~0.075~~ | ~~0.034~~ | ~~0.034~~ | ~~0.018~~ |
| ~~75 %~~ | ~~0.075~~ | ~~0.075~~ | ~~0.075~~ | ~~0.075~~ | ~~0.075~~ | ~~0.034~~ | ~~0.034~~ | ~~0.018~~ |
| ~~90 %~~ | ~~0.075~~ | ~~0.075~~ | ~~0.075~~ | ~~0.075~~ | ~~0.075~~ | ~~0.034~~ | ~~0.034~~ | ~~0.018~~ |
| ~~None~~ | ~~R4 stream~~ |  | ~~0.738~~ | ~~0.738~~ | ~~0.738~~ | ~~0.738~~ | ~~0.335~~ | ~~0.335~~ | ~~0.176~~ |
| ~~50 %~~ | ~~0.738~~ | ~~0.738~~ | ~~0.738~~ | ~~0.738~~ | ~~0.738~~ | ~~0.335~~ | ~~0.335~~ | ~~0.176~~ |
| ~~75 %~~ | ~~0.738~~ | ~~0.738~~ | ~~0.738~~ | ~~0.738~~ | ~~0.738~~ | ~~0.335~~ | ~~0.335~~ | ~~0.176~~ |
| ~~90 %~~ | ~~0.738~~ | ~~0.738~~ | ~~0.738~~ | ~~0.738~~ | ~~0.738~~ | ~~0.335~~ | ~~0.335~~ | ~~0.176~~ |
| ***Bulb vegetables (flower bulbs & flower tubers), 1~~2~~x34 g a.s./ha, BBCH 12 (single application)*** | | | | | | | | | |
| None | D3 ditch | - | 0.058 | 0.031 | 0.021 | 0.016 | 0.031 | 0.021 | 0.016 |
| 50 % | 0.108 | 0.029 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 75 % | 0.054 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.022 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D4 pond | - | 0.006 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| 50 % | 0.004 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| 75 % | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| None | D4 stream | - | 0.060 | 0.032 | 0.022 | 0.017 | 0.032 | 0.022 | 0.017 |
| 50 % | 0.083 | 0.030 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 75 % | 0.041 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.017 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D5 pond (legumes as surrogate crop) | Not calculated – no mitigation needed. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | D5 stream (legumes as surrogate crop) | Not calculated – no mitigation needed. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | D6 ditch (1st) | - | 0.059 | 0.031 | 0.021 | 0.016 | 0.031 | 0.021 | 0.016 |
| 50 % | 0.108 | 0.029 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 75 % | 0.054 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.022 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D6 ditch (2nd) | - | 0.059 | 0.048 | 0.048 | 0.048 | 0.048 | 0.048 | 0.048 |
| 50 % | 0.109 | 0.048 | 0.048 | 0.048 | 0.048 | 0.048 | 0.048 | 0.048 |
| 75 % | 0.054 | 0.048 | 0.048 | 0.048 | 0.048 | 0.048 | 0.048 | 0.048 |
| 90 % | 0.048 | 0.048 | 0.048 | 0.048 | 0.048 | 0.048 | 0.048 | 0.048 |
| None | R1 pond | - | 0.009 | 0.008 | 0.007 | 0.007 | 0.005 | 0.005 | 0.003 |
| 50 % | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.004 | 0.003 | 0.002 |
| 75 % | 0.006 | 0.006 | 0.005 | 0.005 | 0.005 | 0.003 | 0.003 | 0.001 |
| 90 % | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.002 | 0.002 | 0.001 |
| None | R1 stream |  | 0.181 | 0.181 | 0.181 | 0.181 | 0.074 | 0.074 | 0.038 |
| 50 % | 0.181 | 0.181 | 0.181 | 0.181 | 0.181 | 0.074 | 0.074 | 0.038 |
| 75 % | 0.181 | 0.181 | 0.181 | 0.181 | 0.181 | 0.074 | 0.074 | 0.038 |
| 90 % | 0.181 | 0.181 | 0.181 | 0.181 | 0.181 | 0.074 | 0.074 | 0.038 |
| None | R2 stream |  | 0.069 | 0.068 | 0.068 | 0.068 | 0.036 | 0.028 | 0.019 |
| 50 % | 0.094 | 0.068 | 0.068 | 0.068 | 0.068 | 0.028 | 0.028 | 0.014 |
| 75 % | 0.068 | 0.068 | 0.068 | 0.068 | 0.068 | 0.028 | 0.028 | 0.014 |
| 90 % | 0.068 | 0.068 | 0.068 | 0.068 | 0.068 | 0.028 | 0.028 | 0.014 |
| None | R3 stream |  | 0.073 | 0.039 | 0.026 | 0.020 | 0.039 | 0.026 | 0.020 |
| 50 % | 0.100 | 0.036 | 0.019 | 0.016 | 0.016 | 0.019 | 0.013 | 0.010 |
| 75 % | 0.050 | 0.018 | 0.016 | 0.016 | 0.016 | 0.010 | 0.007 | 0.005 |
| 90 % | 0.020 | 0.016 | 0.016 | 0.016 | 0.016 | 0.007 | 0.007 | 0.004 |
| None | R4 stream |  | 0.479 | 0.479 | 0.479 | 0.479 | 0.218 | 0.218 | 0.114 |
| 50 % | 0.479 | 0.479 | 0.479 | 0.479 | 0.479 | 0.218 | 0.218 | 0.114 |
| 75 % | 0.479 | 0.479 | 0.479 | 0.479 | 0.479 | 0.218 | 0.218 | 0.114 |
| 90 % | 0.479 | 0.479 | 0.479 | 0.479 | 0.479 | 0.218 | 0.218 | 0.114 |
| ***Leafy vegetables (floriculture & perennial nursery crops), 1x46 g a.s./ha, BBCH 12*** | | | | | | | | | |
| None | D3 ditch | - | 0.079 | 0.042 | 0.029 | 0.022 | 0.042 | 0.029 | 0.022 |
| 50 % | 0.146 | 0.040 | 0.021 | 0.014 | 0.011 | 0.021 | 0.014 | 0.011 |
| 75 % | 0.073 | 0.020 | 0.010 | 0.007 | 0.005 | 0.010 | 0.007 | 0.005 |
| 90 % | 0.029 | 0.008 | 0.004 | 0.003 | 0.002 | 0.004 | 0.003 | 0.002 |
| None | D4 pond | - | 0.009 | 0.006 | 0.005 | 0.004 | 0.006 | 0.005 | 0.004 |
| 50 % | 0.005 | 0.004 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| 75 % | 0.003 | 0.002 | 0.002 | 0.001 | 0.001 | 0.002 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | 0.001 | < 0.001 | 0.001 | 0.001 | < 0.001 |
| None | D4 stream | - | 0.086 | 0.046 | 0.031 | 0.024 | 0.046 | 0.031 | 0.024 |
| 50 % | 0.118 | 0.043 | 0.023 | 0.016 | 0.012 | 0.023 | 0.016 | 0.012 |
| 75 % | 0.059 | 0.022 | 0.011 | 0.008 | 0.006 | 0.011 | 0.008 | 0.006 |
| 90 % | 0.024 | 0.009 | 0.005 | 0.003 | 0.002 | 0.005 | 0.003 | 0.002 |
| None | D5 pond (legumes as surrogate crop) | Not calculated – no mitigation needed. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | D5 stream (legumes as surrogate crop) | Not calculated – no mitigation needed. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | D6 ditch | - | 0.078 | 0.041 | 0.028 | 0.021 | 0.041 | 0.028 | 0.021 |
| 50 % | 0.143 | 0.039 | 0.021 | 0.014 | 0.011 | 0.021 | 0.014 | 0.011 |
| 75 % | 0.072 | 0.019 | 0.010 | 0.007 | 0.005 | 0.010 | 0.007 | 0.005 |
| 90 % | 0.029 | 0.008 | 0.004 | 0.003 | 0.002 | 0.004 | 0.003 | 0.002 |
| None | R1 pond | - | 0.009 | 0.006 | 0.005 | 0.004 | 0.006 | 0.005 | 0.004 |
| 50 % | 0.005 | 0.004 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| 75 % | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.001 | 0.001 |
| 90 % | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | < 0.001 |
| None | R1 stream | - | 0.070 | 0.037 | 0.025 | 0.020 | 0.037 | 0.025 | 0.019 |
| 50 % | 0.096 | 0.035 | 0.020 | 0.020 | 0.020 | 0.019 | 0.013 | 0.010 |
| 75 % | 0.048 | 0.020 | 0.020 | 0.020 | 0.020 | 0.009 | 0.009 | 0.005 |
| 90 % | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.009 | 0.009 | 0.005 |
| None | R2 stream | - | 0.093 | 0.083 | 0.083 | 0.083 | 0.049 | 0.034 | 0.026 |
| 50 % | 0.127 | 0.083 | 0.083 | 0.083 | 0.083 | 0.034 | 0.034 | 0.017 |
| 75 % | 0.083 | 0.083 | 0.083 | 0.083 | 0.083 | 0.034 | 0.034 | 0.017 |
| 90 % | 0.083 | 0.083 | 0.083 | 0.083 | 0.083 | 0.034 | 0.034 | 0.017 |
| None | R3 stream | - | 0.099 | 0.052 | 0.036 | 0.035 | 0.052 | 0.036 | 0.027 |
| 50 % | 0.135 | 0.049 | 0.035 | 0.035 | 0.035 | 0.026 | 0.018 | 0.014 |
| 75 % | 0.067 | 0.035 | 0.035 | 0.035 | 0.035 | 0.016 | 0.016 | 0.008 |
| 90 % | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.016 | 0.016 | 0.008 |
| None | R4 stream | - | 0.655 | 0.655 | 0.655 | 0.655 | 0.298 | 0.298 | 0.156 |
| 50 % | 0.655 | 0.655 | 0.655 | 0.655 | 0.655 | 0.298 | 0.298 | 0.156 |
| 75 % | 0.655 | 0.655 | 0.655 | 0.655 | 0.655 | 0.298 | 0.298 | 0.156 |
| 90 % | 0.655 | 0.655 | 0.655 | 0.655 | 0.655 | 0.298 | 0.298 | 0.156 |
| ***Leafy vegetables (floriculture & perennial nursery crops), 2x34 g a.s./ha, BBCH 12*** | | | | | | | | | |
| None | D3 ditch | - | 0.049 | 0.025 | 0.017 | 0.013 | 0.025 | 0.017 | 0.013 |
| 50 % | 0.094 | 0.024 | 0.013 | 0.009 | 0.006 | 0.013 | 0.009 | 0.006 |
| 75 % | 0.047 | 0.012 | 0.006 | 0.004 | 0.003 | 0.006 | 0.004 | 0.003 |
| 90 % | 0.019 | 0.005 | 0.003 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |
| None | D4 pond | - | 0.008 | 0.006 | 0.005 | 0.004 | 0.006 | 0.005 | 0.004 |
| 50 % | 0.005 | 0.004 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| 75 % | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | < 0.001 | < 0.001 | 0.001 | < 0.001 | < 0.001 |
| None | D4 stream | - | 0.053 | 0.028 | 0.019 | 0.014 | 0.028 | 0.019 | 0.014 |
| 50 % | 0.075 | 0.027 | 0.014 | 0.009 | 0.007 | 0.014 | 0.009 | 0.007 |
| 75 % | 0.038 | 0.013 | 0.007 | 0.005 | 0.004 | 0.007 | 0.005 | 0.004 |
| 90 % | 0.015 | 0.005 | 0.003 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |
| None | D5 pond (legumes as surrogate crop) | Not calculated – no mitigation needed. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | D5 stream (legumes as surrogate crop) | Not calculated – no mitigation needed. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | D6 ditch | - | 0.048 | 0.025 | 0.017 | 0.013 | 0.025 | 0.017 | 0.013 |
| 50 % | 0.093 | 0.024 | 0.013 | 0.008 | 0.006 | 0.013 | 0.008 | 0.006 |
| 75 % | 0.046 | 0.012 | 0.006 | 0.004 | 0.003 | 0.006 | 0.004 | 0.003 |
| 90 % | 0.019 | 0.005 | 0.003 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |
| None | R1 pond | - | 0.014 | 0.012 | 0.011 | 0.010 | 0.008 | 0.007 | 0.005 |
| 50 % | 0.011 | 0.010 | 0.009 | 0.009 | 0.008 | 0.005 | 0.005 | 0.003 |
| 75 % | 0.009 | 0.008 | 0.008 | 0.008 | 0.007 | 0.004 | 0.004 | 0.002 |
| 90 % | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.003 | 0.003 | 0.002 |
| None | R1 stream | - | 0.151 | 0.151 | 0.151 | 0.151 | 0.068 | 0.068 | 0.036 |
| 50 % | 0.151 | 0.151 | 0.151 | 0.151 | 0.151 | 0.068 | 0.068 | 0.036 |
| 75 % | 0.151 | 0.151 | 0.151 | 0.151 | 0.151 | 0.068 | 0.068 | 0.036 |
| 90 % | 0.151 | 0.151 | 0.151 | 0.151 | 0.151 | 0.068 | 0.068 | 0.036 |
| None | R2 stream | - | 0.072 | 0.072 | 0.072 | 0.072 | 0.032 | 0.032 | 0.017 |
| 50 % | 0.081 | 0.072 | 0.072 | 0.072 | 0.072 | 0.032 | 0.032 | 0.017 |
| 75 % | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.032 | 0.032 | 0.017 |
| 90 % | 0.072 | 0.072 | 0.072 | 0.072 | 0.072 | 0.032 | 0.032 | 0.017 |
| None | R3 stream | - | 0.116 | 0.116 | 0.116 | 0.116 | 0.053 | 0.053 | 0.028 |
| 50 % | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.053 | 0.053 | 0.028 |
| 75 % | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.053 | 0.053 | 0.028 |
| 90 % | 0.116 | 0.116 | 0.116 | 0.116 | 0.116 | 0.053 | 0.053 | 0.028 |
| None | R4 stream | - | 0.630 | 0.630 | 0.630 | 0.630 | 0.286 | 0.286 | 0.150 |
| 50 % | 0.630 | 0.630 | 0.630 | 0.630 | 0.630 | 0.286 | 0.286 | 0.150 |
| 75 % | 0.630 | 0.630 | 0.630 | 0.630 | 0.630 | 0.286 | 0.286 | 0.150 |
| 90 % | 0.630 | 0.630 | 0.630 | 0.630 | 0.630 | 0.286 | 0.286 | 0.150 |
| ***Leafy vegetables (floriculture & perennial nursery crops), 2x34 g a.s./ha, BBCH 12 (single application)*** | | | | | | | | | |
| None | D3 ditch | - | 0.058 | 0.031 | 0.021 | 0.016 | 0.031 | 0.021 | 0.016 |
| 50 % | 0.108 | 0.029 | 0.016 | 0.011 | 0.008 | 0.016 | 0.011 | 0.008 |
| 75 % | 0.054 | 0.015 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.022 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D4 pond | - | 0.006 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| 50 % | 0.004 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| 75 % | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| None | D4 stream | - | 0.064 | 0.034 | 0.023 | 0.018 | 0.034 | 0.023 | 0.018 |
| 50 % | 0.087 | 0.032 | 0.017 | 0.012 | 0.009 | 0.017 | 0.012 | 0.009 |
| 75 % | 0.044 | 0.016 | 0.008 | 0.006 | 0.004 | 0.008 | 0.006 | 0.004 |
| 90 % | 0.017 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | D5 pond (legumes as surrogate crop) | Not calculated – no mitigation needed. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | D5 stream (legumes as surrogate crop) | Not calculated – no mitigation needed. | | | | | | | |
| 50 % |
| 75 % |
| 90 % |
| None | D6 ditch | - | 0.057 | 0.030 | 0.021 | 0.016 | 0.030 | 0.021 | 0.016 |
| 50 % | 0.106 | 0.029 | 0.015 | 0.010 | 0.008 | 0.015 | 0.010 | 0.008 |
| 75 % | 0.053 | 0.014 | 0.008 | 0.005 | 0.004 | 0.008 | 0.005 | 0.004 |
| 90 % | 0.021 | 0.006 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 |
| None | R1 pond | - | 0.006 | 0.005 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 |
| 50 % | 0.004 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| 75 % | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 90 % | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | < 0.001 | < 0.001 |
| None | R1 stream |  | 0.052 | 0.028 | 0.019 | 0.015 | 0.028 | 0.019 | 0.014 |
| 50 % | 0.071 | 0.026 | 0.015 | 0.015 | 0.015 | 0.014 | 0.009 | 0.007 |
| 75 % | 0.036 | 0.015 | 0.015 | 0.015 | 0.015 | 0.007 | 0.007 | 0.004 |
| 90 % | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.007 | 0.007 | 0.003 |
| None | R2 stream | - | 0.069 | 0.059 | 0.059 | 0.059 | 0.036 | 0.025 | 0.019 |
| 50 % | 0.094 | 0.059 | 0.059 | 0.059 | 0.059 | 0.024 | 0.024 | 0.012 |
| 75 % | 0.059 | 0.059 | 0.059 | 0.059 | 0.059 | 0.024 | 0.024 | 0.012 |
| 90 % | 0.059 | 0.059 | 0.059 | 0.059 | 0.059 | 0.024 | 0.024 | 0.012 |
| None | R3 stream | - | 0.073 | 0.039 | 0.026 | 0.025 | 0.039 | 0.026 | 0.020 |
| 50 % | 0.100 | 0.036 | 0.025 | 0.025 | 0.025 | 0.019 | 0.013 | 0.010 |
| 75 % | 0.050 | 0.025 | 0.025 | 0.025 | 0.025 | 0.011 | 0.011 | 0.006 |
| 90 % | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.011 | 0.011 | 0.006 |
| None | R4 stream | - | 0.475 | 0.475 | 0.475 | 0.475 | 0.216 | 0.216 | 0.113 |
| 50 % | 0.475 | 0.475 | 0.475 | 0.475 | 0.475 | 0.216 | 0.216 | 0.113 |
| 75 % | 0.475 | 0.475 | 0.475 | 0.475 | 0.475 | 0.216 | 0.216 | 0.113 |
| 90 % | 0.475 | 0.475 | 0.475 | 0.475 | 0.475 | 0.216 | 0.216 | 0.113 |
| ***Pome fruit (tree nursery crops), 1x46 g a.s./ha, early application, BBCH 12*** | | | | | | | | | |
| None | D3 ditch | - | 2.807 | 1.724 | 0.776 | 0.394 | 1.724 | 0.776 | 0.394 |
| 50 % | 1.786 | 1.403 | 0.862 | 0.388 | 0.197 | 0.862 | 0.388 | 0.197 |
| 75 % | 0.893 | 0.702 | 0.431 | 0.194 | 0.099 | 0.431 | 0.194 | 0.099 |
| 90 % | 0.357 | 0.281 | 0.172 | 0.078 | 0.039 | 0.172 | 0.078 | 0.039 |
| None | D4 pond | - | 0.244 | 0.134 | 0.071 | 0.043 | 0.134 | 0.071 | 0.043 |
| 50 % | 0.109 | 0.122 | 0.067 | 0.035 | 0.022 | 0.067 | 0.035 | 0.022 |
| 75 % | 0.054 | 0.061 | 0.034 | 0.018 | 0.011 | 0.034 | 0.018 | 0.011 |
| 90 % | 0.022 | 0.024 | 0.013 | 0.007 | 0.004 | 0.013 | 0.007 | 0.004 |
| None | D4 stream | - | 2.958 | 1.816 | 0.817 | 0.415 | 1.816 | 0.817 | 0.415 |
| 50 % | 1.721 | 1.479 | 0.908 | 0.409 | 0.208 | 0.908 | 0.409 | 0.208 |
| 75 % | 0.861 | 0.739 | 0.454 | 0.204 | 0.104 | 0.454 | 0.204 | 0.104 |
| 90 % | 0.344 | 0.296 | 0.182 | 0.082 | 0.042 | 0.182 | 0.082 | 0.042 |
| None | D5 pond | - | 0.244 | 0.134 | 0.071 | 0.043 | 0.134 | 0.071 | 0.043 |
| 50 % | 0.109 | 0.122 | 0.067 | 0.035 | 0.022 | 0.067 | 0.035 | 0.022 |
| 75 % | 0.054 | 0.061 | 0.034 | 0.018 | 0.011 | 0.034 | 0.018 | 0.011 |
| 90 % | 0.022 | 0.024 | 0.013 | 0.007 | 0.004 | 0.013 | 0.007 | 0.004 |
| None | D5 stream | - | 3.045 | 1.869 | 0.841 | 0.427 | 1.869 | 0.841 | 0.427 |
| 50 % | 1.772 | 1.522 | 0.935 | 0.421 | 0.214 | 0.935 | 0.421 | 0.214 |
| 75 % | 0.886 | 0.761 | 0.467 | 0.210 | 0.107 | 0.467 | 0.210 | 0.107 |
| 90 % | 0.354 | 0.305 | 0.187 | 0.084 | 0.043 | 0.187 | 0.084 | 0.043 |
| None | R1 pond | - | 0.244 | 0.134 | 0.071 | 0.043 | 0.134 | 0.071 | 0.043 |
| 50 % | 0.109 | 0.122 | 0.067 | 0.035 | 0.022 | 0.067 | 0.035 | 0.022 |
| 75 % | 0.054 | 0.061 | 0.034 | 0.018 | 0.011 | 0.034 | 0.018 | 0.011 |
| 90 % | 0.022 | 0.024 | 0.013 | 0.007 | 0.004 | 0.013 | 0.007 | 0.004 |
| None | R1 stream | - | 2.483 | 1.524 | 0.686 | 0.348 | 1.524 | 0.686 | 0.348 |
| 50 % | 1.444 | 1.241 | 0.762 | 0.343 | 0.174 | 0.762 | 0.343 | 0.174 |
| 75 % | 0.722 | 0.620 | 0.381 | 0.171 | 0.087 | 0.381 | 0.171 | 0.087 |
| 90 % | 0.289 | 0.248 | 0.152 | 0.069 | 0.035 | 0.152 | 0.069 | 0.035 |
| None | R2 stream | - | 3.289 | 2.019 | 0.908 | 0.462 | 2.019 | 0.908 | 0.462 |
| 50 % | 1.913 | 1.644 | 1.009 | 0.454 | 0.231 | 1.009 | 0.454 | 0.231 |
| 75 % | 0.957 | 0.822 | 0.505 | 0.227 | 0.115 | 0.505 | 0.227 | 0.115 |
| 90 % | 0.383 | 0.329 | 0.202 | 0.091 | 0.046 | 0.202 | 0.091 | 0.046 |
| None | R3 stream | - | 3.512 | 2.156 | 0.970 | 0.493 | 2.156 | 0.970 | 0.493 |
| 50 % | 2.043 | 1.755 | 1.078 | 0.485 | 0.247 | 1.078 | 0.485 | 0.247 |
| 75 % | 1.022 | 0.878 | 0.539 | 0.243 | 0.123 | 0.539 | 0.243 | 0.123 |
| 90 % | 0.409 | 0.351 | 0.216 | 0.097 | 0.049 | 0.216 | 0.097 | 0.049 |
| None | R4 stream | - | 2.497 | 1.533 | 0.690 | 0.350 | 1.533 | 0.690 | 0.350 |
| 50 % | 1.453 | 1.248 | 0.767 | 0.345 | 0.175 | 0.767 | 0.345 | 0.175 |
| 75 % | 0.727 | 0.624 | 0.383 | 0.172 | 0.088 | 0.383 | 0.172 | 0.088 |
| 90 % | 0.290 | 0.250 | 0.153 | 0.069 | 0.035 | 0.153 | 0.069 | 0.035 |
| ***Pome fruit (tree nursery crops), 1x46 g a.s./ha, late application, up to BBCH 91 (Aug)*** | | | | | | | | | |
| None | D3 ditch | - | 1.146 | 0.512 | 0.259 | 0.158 | 0.512 | 0.259 | 0.158 |
| 50 % | 0.849 | 0.573 | 0.256 | 0.129 | 0.079 | 0.256 | 0.129 | 0.079 |
| 75 % | 0.424 | 0.286 | 0.128 | 0.065 | 0.039 | 0.128 | 0.065 | 0.039 |
| 90 % | 0.170 | 0.115 | 0.051 | 0.026 | 0.016 | 0.051 | 0.026 | 0.016 |
| None | D4 pond | - | 0.087 | 0.048 | 0.031 | 0.022 | 0.048 | 0.031 | 0.022 |
| 50 % | 0.038 | 0.043 | 0.024 | 0.015 | 0.011 | 0.024 | 0.015 | 0.011 |
| 75 % | 0.019 | 0.022 | 0.012 | 0.008 | 0.005 | 0.012 | 0.008 | 0.005 |
| 90 % | 0.008 | 0.009 | 0.005 | 0.003 | 0.002 | 0.005 | 0.003 | 0.002 |
| None | D4 stream | - | 1.293 | 0.578 | 0.292 | 0.178 | 0.578 | 0.292 | 0.178 |
| 50 % | 0.829 | 0.647 | 0.289 | 0.146 | 0.089 | 0.289 | 0.146 | 0.089 |
| 75 % | 0.414 | 0.323 | 0.144 | 0.073 | 0.045 | 0.144 | 0.073 | 0.045 |
| 90 % | 0.166 | 0.129 | 0.058 | 0.029 | 0.018 | 0.058 | 0.029 | 0.018 |
| None | D5 pond | - | 0.087 | 0.048 | 0.031 | 0.022 | 0.048 | 0.031 | 0.022 |
| 50 % | 0.038 | 0.043 | 0.024 | 0.015 | 0.011 | 0.024 | 0.015 | 0.011 |
| 75 % | 0.019 | 0.022 | 0.012 | 0.008 | 0.005 | 0.012 | 0.008 | 0.005 |
| 90 % | 0.008 | 0.009 | 0.005 | 0.003 | 0.002 | 0.005 | 0.003 | 0.002 |
| None | D5 stream | - | 1.429 | 0.639 | 0.322 | 0.197 | 0.639 | 0.322 | 0.197 |
| 50 % | 0.916 | 0.714 | 0.319 | 0.161 | 0.099 | 0.319 | 0.161 | 0.099 |
| 75 % | 0.458 | 0.357 | 0.160 | 0.081 | 0.049 | 0.160 | 0.081 | 0.049 |
| 90 % | 0.183 | 0.143 | 0.064 | 0.032 | 0.020 | 0.064 | 0.032 | 0.020 |
| None | R1 pond | - | 0.087 | 0.048 | 0.031 | 0.022 | 0.048 | 0.031 | 0.022 |
| 50 % | 0.038 | 0.043 | 0.024 | 0.015 | 0.011 | 0.024 | 0.015 | 0.011 |
| 75 % | 0.019 | 0.022 | 0.012 | 0.008 | 0.005 | 0.012 | 0.008 | 0.005 |
| 90 % | 0.008 | 0.009 | 0.005 | 0.003 | 0.002 | 0.005 | 0.003 | 0.002 |
| None | R1 stream | - | 1.013 | 0.453 | 0.229 | 0.140 | 0.453 | 0.229 | 0.140 |
| 50 % | 0.649 | 0.507 | 0.226 | 0.114 | 0.070 | 0.226 | 0.114 | 0.070 |
| 75 % | 0.325 | 0.253 | 0.113 | 0.057 | 0.035 | 0.113 | 0.057 | 0.035 |
| 90 % | 0.130 | 0.101 | 0.045 | 0.023 | 0.014 | 0.045 | 0.023 | 0.014 |
| None | R2 stream | - | 1.358 | 0.607 | 0.306 | 0.187 | 0.607 | 0.306 | 0.187 |
| 50 % | 0.870 | 0.679 | 0.303 | 0.153 | 0.094 | 0.303 | 0.153 | 0.094 |
| 75 % | 0.435 | 0.340 | 0.152 | 0.077 | 0.047 | 0.152 | 0.077 | 0.047 |
| 90 % | 0.174 | 0.136 | 0.061 | 0.031 | 0.019 | 0.061 | 0.031 | 0.019 |
| None | R3 stream | - | 1.428 | 0.638 | 0.367 | 0.367 | 0.638 | 0.322 | 0.197 |
| 50 % | 0.915 | 0.714 | 0.367 | 0.367 | 0.367 | 0.319 | 0.166 | 0.098 |
| 75 % | 0.457 | 0.367 | 0.367 | 0.367 | 0.367 | 0.166 | 0.166 | 0.087 |
| 90 % | 0.367 | 0.367 | 0.367 | 0.367 | 0.367 | 0.166 | 0.166 | 0.087 |
| None | R4 stream | - | 1.013 | 0.453 | 0.229 | 0.188 | 0.453 | 0.229 | 0.140 |
| 50 % | 0.649 | 0.506 | 0.226 | 0.188 | 0.188 | 0.226 | 0.114 | 0.070 |
| 75 % | 0.324 | 0.253 | 0.188 | 0.188 | 0.188 | 0.113 | 0.085 | 0.045 |
| 90 % | 0.188 | 0.188 | 0.188 | 0.188 | 0.188 | 0.085 | 0.085 | 0.045 |
| ***Pome fruit (tree nursery crops), 2x34 g a.s./ha, early application, BBCH 12*** | | | | | | | | | |
| None | D3 ditch | - | 1.752 | 1.035 | 0.568 | 0.268 | 1.035 | 0.568 | 0.268 |
| 50 % | 1.136 | 0.876 | 0.518 | 0.284 | 0.134 | 0.518 | 0.284 | 0.134 |
| 75 % | 0.568 | 0.438 | 0.259 | 0.142 | 0.067 | 0.259 | 0.142 | 0.067 |
| 90 % | 0.227 | 0.175 | 0.104 | 0.057 | 0.027 | 0.104 | 0.057 | 0.027 |
| None | D4 pond | - | 0.242 | 0.137 | 0.072 | 0.041 | 0.137 | 0.072 | 0.041 |
| 50 % | 0.108 | 0.121 | 0.069 | 0.036 | 0.021 | 0.069 | 0.036 | 0.021 |
| 75 % | 0.054 | 0.060 | 0.034 | 0.018 | 0.010 | 0.034 | 0.018 | 0.010 |
| 90 % | 0.021 | 0.024 | 0.014 | 0.007 | 0.004 | 0.014 | 0.007 | 0.004 |
| None | D4 stream | - | 1.951 | 1.152 | 0.633 | 0.298 | 1.152 | 0.633 | 0.298 |
| 50 % | 1.149 | 0.976 | 0.576 | 0.316 | 0.149 | 0.576 | 0.316 | 0.149 |
| 75 % | 0.574 | 0.488 | 0.288 | 0.158 | 0.075 | 0.288 | 0.158 | 0.075 |
| 90 % | 0.230 | 0.195 | 0.115 | 0.063 | 0.030 | 0.115 | 0.063 | 0.030 |
| None | D5 pond | - | 0.280 | 0.159 | 0.083 | 0.048 | 0.159 | 0.083 | 0.048 |
| 50 % | 0.125 | 0.140 | 0.079 | 0.042 | 0.024 | 0.079 | 0.042 | 0.024 |
| 75 % | 0.062 | 0.070 | 0.040 | 0.021 | 0.012 | 0.040 | 0.021 | 0.012 |
| 90 % | 0.025 | 0.028 | 0.016 | 0.008 | 0.005 | 0.016 | 0.008 | 0.005 |
| None | D5 stream | - | 2.067 | 1.221 | 0.671 | 0.316 | 1.221 | 0.671 | 0.316 |
| 50 % | 1.218 | 1.034 | 0.611 | 0.335 | 0.158 | 0.611 | 0.335 | 0.158 |
| 75 % | 0.609 | 0.517 | 0.305 | 0.168 | 0.079 | 0.305 | 0.168 | 0.079 |
| 90 % | 0.244 | 0.207 | 0.122 | 0.067 | 0.032 | 0.122 | 0.067 | 0.032 |
| None | R1 pond | - | 0.291 | 0.165 | 0.087 | 0.050 | 0.165 | 0.087 | 0.050 |
| 50 % | 0.130 | 0.146 | 0.083 | 0.043 | 0.025 | 0.083 | 0.043 | 0.025 |
| 75 % | 0.065 | 0.073 | 0.041 | 0.022 | 0.012 | 0.041 | 0.022 | 0.012 |
| 90 % | 0.026 | 0.029 | 0.016 | 0.009 | 0.005 | 0.016 | 0.009 | 0.005 |
| None | R1 stream | - | 1.547 | 0.914 | 0.502 | 0.237 | 0.914 | 0.502 | 0.237 |
| 50 % | 0.911 | 0.774 | 0.457 | 0.251 | 0.118 | 0.457 | 0.251 | 0.118 |
| 75 % | 0.456 | 0.387 | 0.229 | 0.125 | 0.059 | 0.229 | 0.125 | 0.059 |
| 90 % | 0.182 | 0.155 | 0.091 | 0.050 | 0.024 | 0.091 | 0.050 | 0.024 |
| None | R2 stream | - | 2.053 | 1.213 | 0.666 | 0.314 | 1.213 | 0.666 | 0.314 |
| 50 % | 1.209 | 1.026 | 0.606 | 0.333 | 0.157 | 0.606 | 0.333 | 0.157 |
| 75 % | 0.604 | 0.513 | 0.303 | 0.166 | 0.078 | 0.303 | 0.166 | 0.078 |
| 90 % | 0.242 | 0.205 | 0.121 | 0.067 | 0.031 | 0.121 | 0.067 | 0.031 |
| None | R3 stream |  | 2.189 | 1.293 | 0.710 | 0.335 | 1.293 | 0.710 | 0.335 |
| 50 % | 1.289 | 1.095 | 0.647 | 0.355 | 0.179 | 0.647 | 0.355 | 0.167 |
| 75 % | 0.645 | 0.547 | 0.323 | 0.179 | 0.179 | 0.323 | 0.178 | 0.084 |
| 90 % | 0.258 | 0.219 | 0.179 | 0.179 | 0.179 | 0.129 | 0.081 | 0.042 |
| None | R4 stream | - | 1.556 | 0.919 | 0.505 | 0.279 | 0.919 | 0.505 | 0.238 |
| 50 % | 0.917 | 0.778 | 0.460 | 0.279 | 0.279 | 0.460 | 0.252 | 0.119 |
| 75 % | 0.458 | 0.389 | 0.279 | 0.279 | 0.279 | 0.230 | 0.126 | 0.060 |
| 90 % | 0.279 | 0.279 | 0.279 | 0.279 | 0.279 | 0.116 | 0.116 | 0.059 |
| ***Pome fruit (tree nursery crops), 2x34 g a.s./ha, early application, BBCH 12 (single application)*** | | | | | | | | | |
| None | D3 ditch | - | 2.075 | 1.274 | 0.573 | 0.291 | 1.274 | 0.573 | 0.291 |
| 50 % | 1.320 | 1.037 | 0.637 | 0.287 | 0.146 | 0.637 | 0.287 | 0.146 |
| 75 % | 0.660 | 0.519 | 0.319 | 0.143 | 0.073 | 0.319 | 0.143 | 0.073 |
| 90 % | 0.264 | 0.207 | 0.127 | 0.057 | 0.029 | 0.127 | 0.057 | 0.029 |
| None | D4 pond | - | 0.181 | 0.099 | 0.052 | 0.032 | 0.099 | 0.052 | 0.032 |
| 50 % | 0.080 | 0.090 | 0.050 | 0.026 | 0.016 | 0.050 | 0.026 | 0.016 |
| 75 % | 0.040 | 0.045 | 0.025 | 0.013 | 0.008 | 0.025 | 0.013 | 0.008 |
| 90 % | 0.016 | 0.018 | 0.010 | 0.005 | 0.003 | 0.010 | 0.005 | 0.003 |
| None | D4 stream | - | 2.186 | 1.342 | 0.604 | 0.307 | 1.342 | 0.604 | 0.307 |
| 50 % | 1.272 | 1.093 | 0.671 | 0.302 | 0.154 | 0.671 | 0.302 | 0.154 |
| 75 % | 0.636 | 0.546 | 0.336 | 0.151 | 0.077 | 0.336 | 0.151 | 0.077 |
| 90 % | 0.254 | 0.219 | 0.134 | 0.060 | 0.031 | 0.134 | 0.060 | 0.031 |
| None | D5 pond | - | 0.181 | 0.099 | 0.052 | 0.032 | 0.099 | 0.052 | 0.032 |
| 50 % | 0.080 | 0.090 | 0.050 | 0.026 | 0.016 | 0.050 | 0.026 | 0.016 |
| 75 % | 0.040 | 0.045 | 0.025 | 0.013 | 0.008 | 0.025 | 0.013 | 0.008 |
| 90 % | 0.016 | 0.018 | 0.010 | 0.005 | 0.003 | 0.010 | 0.005 | 0.003 |
| None | D5 stream | - | 2.250 | 1.382 | 0.622 | 0.316 | 1.382 | 0.622 | 0.316 |
| 50 % | 1.309 | 1.125 | 0.691 | 0.311 | 0.158 | 0.691 | 0.311 | 0.158 |
| 75 % | 0.655 | 0.562 | 0.346 | 0.155 | 0.079 | 0.346 | 0.155 | 0.079 |
| 90 % | 0.262 | 0.225 | 0.138 | 0.062 | 0.032 | 0.138 | 0.062 | 0.032 |
| None | R1 pond | - | 0.181 | 0.099 | 0.052 | 0.032 | 0.099 | 0.052 | 0.032 |
| 50 % | 0.080 | 0.090 | 0.050 | 0.026 | 0.016 | 0.050 | 0.026 | 0.016 |
| 75 % | 0.040 | 0.045 | 0.025 | 0.013 | 0.008 | 0.025 | 0.013 | 0.008 |
| 90 % | 0.016 | 0.018 | 0.010 | 0.005 | 0.003 | 0.010 | 0.005 | 0.003 |
| None | R1 stream | - | 1.834 | 1.126 | 0.507 | 0.258 | 1.126 | 0.507 | 0.258 |
| 50 % | 1.067 | 0.917 | 0.563 | 0.253 | 0.129 | 0.563 | 0.253 | 0.129 |
| 75 % | 0.534 | 0.458 | 0.282 | 0.127 | 0.064 | 0.282 | 0.127 | 0.064 |
| 90 % | 0.214 | 0.183 | 0.113 | 0.051 | 0.026 | 0.113 | 0.051 | 0.026 |
| None | R2 stream | - | 2.430 | 1.492 | 0.671 | 0.341 | 1.492 | 0.671 | 0.341 |
| 50 % | 1.414 | 1.215 | 0.746 | 0.336 | 0.171 | 0.746 | 0.336 | 0.171 |
| 75 % | 0.707 | 0.607 | 0.373 | 0.168 | 0.085 | 0.373 | 0.168 | 0.085 |
| 90 % | 0.283 | 0.243 | 0.149 | 0.067 | 0.034 | 0.149 | 0.067 | 0.034 |
| None | R3 stream | - | 2.595 | 1.594 | 0.717 | 0.364 | 1.594 | 0.717 | 0.364 |
| 50 % | 1.510 | 1.298 | 0.797 | 0.358 | 0.182 | 0.797 | 0.358 | 0.182 |
| 75 % | 0.755 | 0.649 | 0.399 | 0.179 | 0.091 | 0.399 | 0.179 | 0.091 |
| 90 % | 0.302 | 0.260 | 0.159 | 0.072 | 0.036 | 0.159 | 0.072 | 0.036 |
| None | R4 stream | - | 1.845 | 1.133 | 0.510 | 0.259 | 1.133 | 0.510 | 0.259 |
| 50 % | 1.074 | 0.923 | 0.567 | 0.255 | 0.130 | 0.567 | 0.255 | 0.130 |
| 75 % | 0.537 | 0.461 | 0.283 | 0.127 | 0.073 | 0.283 | 0.127 | 0.065 |
| 90 % | 0.215 | 0.185 | 0.113 | 0.073 | 0.073 | 0.113 | 0.051 | 0.026 |
| ***Pome fruit (tree nursery crops), 2x34 g a.s./ha, late application, up to BBCH 91 (Aug)*** | | | | | | | | | |
| None | D3 ditch | - | 0.793 | 0.381 | 0.187 | 0.108 | 0.381 | 0.187 | 0.108 |
| 50 % | 0.570 | 0.397 | 0.191 | 0.093 | 0.054 | 0.191 | 0.093 | 0.054 |
| 75 % | 0.285 | 0.198 | 0.095 | 0.047 | 0.027 | 0.095 | 0.047 | 0.027 |
| 90 % | 0.114 | 0.079 | 0.038 | 0.019 | 0.011 | 0.038 | 0.019 | 0.011 |
| None | D4 pond | - | 0.092 | 0.050 | 0.031 | 0.021 | 0.050 | 0.031 | 0.021 |
| 50 % | 0.040 | 0.046 | 0.025 | 0.015 | 0.010 | 0.025 | 0.015 | 0.010 |
| 75 % | 0.020 | 0.023 | 0.013 | 0.008 | 0.005 | 0.013 | 0.008 | 0.005 |
| 90 % | 0.008 | 0.009 | 0.005 | 0.003 | 0.002 | 0.005 | 0.003 | 0.002 |
| None | D4 stream | - | 0.780 | 0.375 | 0.183 | 0.106 | 0.375 | 0.183 | 0.106 |
| 50 % | 0.490 | 0.390 | 0.187 | 0.092 | 0.053 | 0.187 | 0.092 | 0.053 |
| 75 % | 0.245 | 0.195 | 0.094 | 0.046 | 0.027 | 0.094 | 0.046 | 0.027 |
| 90 % | 0.098 | 0.078 | 0.037 | 0.018 | 0.011 | 0.037 | 0.018 | 0.011 |
| None | D5 pond | - | 0.097 | 0.053 | 0.032 | 0.022 | 0.053 | 0.032 | 0.022 |
| 50 % | 0.043 | 0.049 | 0.027 | 0.016 | 0.011 | 0.027 | 0.016 | 0.011 |
| 75 % | 0.021 | 0.024 | 0.013 | 0.008 | 0.006 | 0.013 | 0.008 | 0.006 |
| 90 % | 0.008 | 0.010 | 0.005 | 0.003 | 0.002 | 0.005 | 0.003 | 0.002 |
| None | D5 stream | - | 0.862 | 0.414 | 0.203 | 0.118 | 0.414 | 0.203 | 0.118 |
| 50 % | 0.542 | 0.431 | 0.207 | 0.101 | 0.059 | 0.207 | 0.101 | 0.059 |
| 75 % | 0.271 | 0.216 | 0.104 | 0.051 | 0.029 | 0.104 | 0.051 | 0.029 |
| 90 % | 0.108 | 0.086 | 0.041 | 0.020 | 0.012 | 0.041 | 0.020 | 0.012 |
| None | R1 pond | - | 0.080 | 0.044 | 0.026 | 0.018 | 0.044 | 0.026 | 0.018 |
| 50 % | 0.035 | 0.040 | 0.022 | 0.013 | 0.009 | 0.022 | 0.013 | 0.009 |
| 75 % | 0.017 | 0.020 | 0.011 | 0.007 | 0.005 | 0.011 | 0.007 | 0.005 |
| 90 % | 0.007 | 0.008 | 0.004 | 0.003 | 0.002 | 0.004 | 0.003 | 0.002 |
| None | R1 stream | - | 0.611 | 0.294 | 0.144 | 0.083 | 0.294 | 0.144 | 0.083 |
| 50 % | 0.384 | 0.306 | 0.147 | 0.072 | 0.042 | 0.147 | 0.072 | 0.042 |
| 75 % | 0.192 | 0.153 | 0.073 | 0.036 | 0.021 | 0.073 | 0.036 | 0.021 |
| 90 % | 0.077 | 0.061 | 0.029 | 0.014 | 0.008 | 0.029 | 0.014 | 0.008 |
| None | R2 stream | - | 0.819 | 0.394 | 0.193 | 0.112 | 0.394 | 0.193 | 0.112 |
| 50 % | 0.515 | 0.410 | 0.197 | 0.096 | 0.056 | 0.197 | 0.096 | 0.056 |
| 75 % | 0.258 | 0.205 | 0.098 | 0.048 | 0.028 | 0.098 | 0.048 | 0.028 |
| 90 % | 0.103 | 0.082 | 0.039 | 0.019 | 0.011 | 0.039 | 0.019 | 0.011 |
| None | R3 stream | - | 0.862 | 0.415 | 0.209 | 0.209 | 0.414 | 0.203 | 0.118 |
| 50 % | 0.542 | 0.431 | 0.209 | 0.209 | 0.209 | 0.207 | 0.102 | 0.059 |
| 75 % | 0.271 | 0.216 | 0.209 | 0.209 | 0.209 | 0.104 | 0.094 | 0.049 |
| 90 % | 0.209 | 0.209 | 0.209 | 0.209 | 0.209 | 0.094 | 0.094 | 0.049 |
| None | R4 stream |  | 0.611 | 0.294 | 0.144 | 0.137 | 0.294 | 0.144 | 0.083 |
| 50 % | 0.384 | 0.306 | 0.147 | 0.137 | 0.137 | 0.147 | 0.072 | 0.042 |
| 75 % | 0.192 | 0.153 | 0.137 | 0.137 | 0.137 | 0.073 | 0.062 | 0.033 |
| 90 % | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.062 | 0.062 | 0.033 |
| ***Pome fruit (tree nursery crops), 2x34 g a.s./ha, late application, up to BBCH 91 (Aug) (single application)*** | | | | | | | | | |
| None | D3 ditch | - | 0.847 | 0.378 | 0.191 | 0.117 | 0.378 | 0.191 | 0.117 |
| 50 % | 0.627 | 0.423 | 0.189 | 0.096 | 0.058 | 0.189 | 0.096 | 0.058 |
| 75 % | 0.314 | 0.212 | 0.095 | 0.048 | 0.029 | 0.095 | 0.048 | 0.029 |
| 90 % | 0.125 | 0.085 | 0.038 | 0.019 | 0.012 | 0.038 | 0.019 | 0.012 |
| None | D4 pond | - | 0.064 | 0.036 | 0.023 | 0.016 | 0.036 | 0.023 | 0.016 |
| 50 % | 0.028 | 0.032 | 0.018 | 0.011 | 0.008 | 0.018 | 0.011 | 0.008 |
| 75 % | 0.014 | 0.016 | 0.009 | 0.006 | 0.004 | 0.009 | 0.006 | 0.004 |
| 90 % | 0.006 | 0.006 | 0.004 | 0.002 | 0.002 | 0.004 | 0.002 | 0.002 |
| None | D4 stream | - | 0.956 | 0.427 | 0.216 | 0.132 | 0.427 | 0.216 | 0.132 |
| 50 % | 0.613 | 0.478 | 0.214 | 0.108 | 0.066 | 0.214 | 0.108 | 0.066 |
| 75 % | 0.306 | 0.239 | 0.107 | 0.054 | 0.033 | 0.107 | 0.054 | 0.033 |
| 90 % | 0.123 | 0.096 | 0.043 | 0.022 | 0.013 | 0.043 | 0.022 | 0.013 |
| None | D5 pond | - | 0.064 | 0.036 | 0.023 | 0.016 | 0.036 | 0.023 | 0.016 |
| 50 % | 0.028 | 0.032 | 0.018 | 0.011 | 0.008 | 0.018 | 0.011 | 0.008 |
| 75 % | 0.014 | 0.016 | 0.009 | 0.006 | 0.004 | 0.009 | 0.006 | 0.004 |
| 90 % | 0.006 | 0.006 | 0.004 | 0.002 | 0.002 | 0.004 | 0.002 | 0.002 |
| None | D5 stream | - | 1.056 | 0.472 | 0.238 | 0.146 | 0.472 | 0.238 | 0.146 |
| 50 % | 0.677 | 0.528 | 0.236 | 0.119 | 0.073 | 0.236 | 0.119 | 0.073 |
| 75 % | 0.338 | 0.264 | 0.118 | 0.060 | 0.036 | 0.118 | 0.060 | 0.036 |
| 90 % | 0.135 | 0.106 | 0.047 | 0.024 | 0.015 | 0.047 | 0.024 | 0.015 |
| None | R1 pond | - | 0.064 | 0.035 | 0.023 | 0.016 | 0.035 | 0.023 | 0.016 |
| 50 % | 0.028 | 0.032 | 0.018 | 0.011 | 0.008 | 0.018 | 0.011 | 0.008 |
| 75 % | 0.014 | 0.016 | 0.009 | 0.006 | 0.004 | 0.009 | 0.006 | 0.004 |
| 90 % | 0.006 | 0.006 | 0.004 | 0.002 | 0.002 | 0.004 | 0.002 | 0.002 |
| None | R1 stream | - | 0.749 | 0.335 | 0.169 | 0.103 | 0.335 | 0.169 | 0.103 |
| 50 % | 0.480 | 0.375 | 0.167 | 0.084 | 0.052 | 0.167 | 0.084 | 0.052 |
| 75 % | 0.240 | 0.187 | 0.084 | 0.042 | 0.026 | 0.084 | 0.042 | 0.026 |
| 90 % | 0.096 | 0.075 | 0.033 | 0.017 | 0.010 | 0.033 | 0.017 | 0.010 |
| None | R2 stream | - | 1.004 | 0.449 | 0.227 | 0.138 | 0.449 | 0.227 | 0.138 |
| 50 % | 0.643 | 0.502 | 0.224 | 0.113 | 0.069 | 0.224 | 0.113 | 0.069 |
| 75 % | 0.322 | 0.251 | 0.112 | 0.057 | 0.035 | 0.112 | 0.057 | 0.035 |
| 90 % | 0.129 | 0.100 | 0.045 | 0.023 | 0.014 | 0.045 | 0.023 | 0.014 |
| None | R3 stream | - | 1.056 | 0.472 | 0.262 | 0.262 | 0.472 | 0.238 | 0.146 |
| 50 % | 0.676 | 0.528 | 0.262 | 0.262 | 0.262 | 0.236 | 0.119 | 0.073 |
| 75 % | 0.338 | 0.264 | 0.262 | 0.262 | 0.262 | 0.119 | 0.119 | 0.062 |
| 90 % | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.119 | 0.119 | 0.062 |
| None | R4 stream | - | 0.749 | 0.335 | 0.169 | 0.137 | 0.335 | 0.169 | 0.103 |
| 50 % | 0.480 | 0.375 | 0.167 | 0.137 | 0.137 | 0.167 | 0.084 | 0.052 |
| 75 % | 0.240 | 0.187 | 0.137 | 0.137 | 0.137 | 0.084 | 0.062 | 0.033 |
| 90 % | 0.137 | 0.137 | 0.137 | 0.137 | 0.137 | 0.062 | 0.062 | 0.033 |

a) Single application to sugar beets was not included in the original submission. Though Step 4 is actually not required, results for single application were added since Step 4 is necessary for the twofold application.

PECsw/sed – Metabolites of acetamiprid

Table 8.9‑7: FOCUS Step 1-2 PECSW and PECSED for IM-1-2 following single / multiple application(s) of acetamiprid on various crops

| Application pattern | Number of applications | Step | Region | **Season** | **IM-1-2** | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Maximum PECSW [µg/L] | 21 d TWA PECSW [µg/L] a | Maximum PECSED [µg/L] |
| Maize 1x60 g a.s./ha BBCH 51 | 1 | 1 | - | - | 13.853 | 13.748 | 7.473 |
| 2 | N EU | Oct – Feb | 0.397 | 0.392 | 0.213 |
| Mar – May | 0.204 | 0.201 | 0.109 |
| Jun – Sep | 0.204 | 0.201 | 0.109 |
| 2 | S EU | Oct – Feb | 0.333 | 0.329 | 0.179 |
| Mar – May | 0.333 | 0.329 | 0.179 |
| Jun – Sep | 0.268 | 0.265 | 0.144 |
| Pome fruit (late)  1x80 g a.s./ha  BBCH 71 | 1 | 1 | - | - | 18.971 | 18.794 | 10.215 |
| 2 | N EU | Oct – Feb | 1.176 | 1.155 | 0.628 |
| Mar – May | 0.817 | 0.798 | 0.434 |
| Jun – Sep | 0.817 | 0.798 | 0.434 |
| 2 | S EU | Oct – Feb | 1.056 | 1.036 | 0.563 |
| Mar – May | 1.056 | 1.036 | 0.563 |
| Jun – Sep | 0.936 | 0.917 | 0.498 |
| Pome fruit (early)  2x25 g a.s./ha  BBCH 62 | 2 | 1 | - | - | 12.182 | 12.048 | 6.548 |
| 2 | N EU | Oct – Feb | 0.778 | 0.760 | 0.413 |
| Mar – May | 0.662 | 0.644 | 0.350 |
| Jun – Sep | 0.662 | 0.644 | 0.350 |
| 2 | S EU | Oct – Feb | 0.739 | 0.721 | 0.392 |
| Mar – May | 0.739 | 0.721 | 0.392 |
| Jun – Sep | 0.700 | 0.683 | 0.371 |
| Pome fruit (early)  2x25 g a.s./ha  BBCH 62  (single application) | 1 | 1 | - | - | 12.182 | 12.048 | 6.548 |
| 2 | N EU | Oct – Feb | 0.522 | 0.511 | 0.278 |
| Mar – May | 0.410 | 0.400 | 0.217 |
| Jun – Sep | 0.410 | 0.400 | 0.217 |
| 2 | S EU | Oct – Feb | 0.485 | 0.474 | 0.257 |
| Mar – May | 0.485 | 0.474 | 0.257 |
| Jun – Sep | 0.447 | 0.437 | 0.237 |
| Pome fruit (late)  2x25 g a.s./ha  BBCH 62 | 2 | 1 | - | - | 11.857 | 11.746 | 6.385 |
| 2 | N EU | Oct – Feb | 0.471 | 0.462 | 0.251 |
| Mar – May | 0.355 | 0.346 | 0.188 |
| Jun – Sep | 0.355 | 0.346 | 0.188 |
| 2 | S EU | Oct – Feb | 0.433 | 0.423 | 0.230 |
| Mar – May | 0.433 | 0.423 | 0.230 |
| Jun – Sep | 0.394 | 0.385 | 0.209 |
| Pome fruit (late)  2x25 g a.s./ha  BBCH 62  (single application) | 1 | 1 | - | - | 11.857 | 11.746 | 6.385 |
| 2 | N EU | Oct – Feb | 0.368 | 0.361 | 0.196 |
| Mar – May | 0.255 | 0.249 | 0.136 |
| Jun – Sep | 0.255 | 0.249 | 0.136 |
| 2 | S EU | Oct – Feb | 0.330 | 0.324 | 0.176 |
| Mar – May | 0.330 | 0.324 | 0.176 |
| Jun – Sep | 0.293 | 0.287 | 0.156 |
| Potato  1x36 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 8.312 | 8.249 | 4.484 |
| 2 | N EU | Oct – Feb | 0.700 | 0.694 | 0.377 |
| Mar – May | 0.307 | 0.304 | 0.165 |
| Jun – Sep | 0.307 | 0.304 | 0.165 |
| 2 | S EU | Oct – Feb | 0.569 | 0.564 | 0.307 |
| Mar – May | 0.569 | 0.564 | 0.307 |
| Jun – Sep | 0.438 | 0.434 | 0.236 |
| Spring cereals  2x35 g a.s./ha  BBCH 40 | 2 | 1 | - | - | 16.162 | 16.039 | 8.718 |
| 2 | N EU | Oct – Feb | 0.306 | 0.302 | 0.164 |
| Mar – May | 0.169 | 0.166 | 0.090 |
| Jun – Sep | 0.169 | 0.166 | 0.090 |
| 2 | S EU | Oct – Feb | 0.261 | 0.257 | 0.140 |
| Mar – May | 0.261 | 0.257 | 0.140 |
| Jun – Sep | 0.215 | 0.212 | 0.115 |
| Spring cereals  2x35 g a.s./ha  BBCH 40  (single application) | 1 | 1 | - | - | 16.162 | 16.039 | 8.718 |
| 2 | N EU | Oct – Feb | 0.269 | 0.266 | 0.145 |
| Mar – May | 0.134 | 0.132 | 0.072 |
| Jun – Sep | 0.134 | 0.132 | 0.072 |
| 2 | S EU | Oct – Feb | 0.224 | 0.221 | 0.120 |
| Mar – May | 0.224 | 0.221 | 0.120 |
| Jun – Sep | 0.179 | 0.177 | 0.096 |
| Spring cereals  2x35 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 16.162 | 16.039 | 8.718 |
| 2 | N EU | Oct – Feb | 0.826 | 0.818 | 0.445 |
| Mar – May | 0.377 | 0.373 | 0.203 |
| Jun – Sep | 0.377 | 0.373 | 0.203 |
| 2 | S EU | Oct – Feb | 0.676 | 0.670 | 0.364 |
| Mar – May | 0.676 | 0.670 | 0.364 |
| Jun – Sep | 0.527 | 0.521 | 0.283 |
| Spring cereals  2x35 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 16.162 | 16.039 | 8.718 |
| 2 | N EU | Oct – Feb | 0.793 | 0.786 | 0.427 |
| Mar – May | 0.344 | 0.340 | 0.185 |
| Jun – Sep | 0.344 | 0.340 | 0.185 |
| 2 | S EU | Oct – Feb | 0.643 | 0.638 | 0.347 |
| Mar – May | 0.643 | 0.638 | 0.347 |
| Jun – Sep | 0.494 | 0.489 | 0.266 |
| Winter cereals  2x36 g a.s./ha  BBCH 40 | 2 | 1 | - | - | 16.624 | 16.497 | 8.967 |
| 2 | N EU | Oct – Feb | 0.315 | 0.311 | 0.169 |
| Mar – May | 0.174 | 0.171 | 0.093 |
| Jun – Sep | 0.174 | 0.171 | 0.093 |
| 2 | S EU | Oct – Feb | 0.268 | 0.264 | 0.144 |
| Mar – May | 0.268 | 0.264 | 0.144 |
| Jun – Sep | 0.221 | 0.218 | 0.118 |
| Winter cereals  2x36 g a.s./ha  BBCH 40  (single application) | 1 | 1 | - | - | 16.624 | 16.497 | 8.967 |
| 2 | N EU | Oct – Feb | 0.277 | 0.274 | 0.149 |
| Mar – May | 0.138 | 0.136 | 0.074 |
| Jun – Sep | 0.138 | 0.136 | 0.074 |
| 2 | S EU | Oct – Feb | 0.230 | 0.228 | 0.124 |
| Mar – May | 0.230 | 0.228 | 0.124 |
| Jun – Sep | 0.184 | 0.182 | 0.099 |
| Winter cereals  1x30 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 6.927 | 6.874 | 3.736 |
| 2 | N EU | Oct – Feb | 0.680 | 0.674 | 0.366 |
| Mar – May | 0.295 | 0.292 | 0.159 |
| Jun – Sep | 0.295 | 0.292 | 0.159 |
| 2 | S EU | Oct – Feb | 0.551 | 0.547 | 0.297 |
| Mar – May | 0.551 | 0.547 | 0.297 |
| Jun – Sep | 0.423 | 0.419 | 0.228 |
| Oilseed rape (winter)  2x60 g a.s./ha  BBCH 31 | 2 | 1 | - | - | 27.707 | 27.496 | 14.945 |
| 2 | N EU | Oct – Feb | 0.540 | 0.533 | 0.290 |
| Mar – May | 0.296 | 0.291 | 0.158 |
| Jun – Sep | 0.296 | 0.291 | 0.158 |
| 2 | S EU | Oct – Feb | 0.459 | 0.452 | 0.246 |
| Mar – May | 0.459 | 0.452 | 0.246 |
| Jun – Sep | 0.377 | 0.372 | 0.202 |
| Oilseed rape (winter)  2x60 g a.s./ha  BBCH 31  (single application) | 1 | 1 | - | - | 27.707 | 27.496 | 14.945 |
| 2 | N EU | Oct – Feb | 0.461 | 0.456 | 0.248 |
| Mar – May | 0.230 | 0.227 | 0.123 |
| Jun – Sep | 0.230 | 0.227 | 0.123 |
| 2 | S EU | Oct – Feb | 0.384 | 0.380 | 0.206 |
| Mar – May | 0.384 | 0.380 | 0.206 |
| Jun – Sep | 0.307 | 0.303 | 0.165 |
| Oilseed rape (winter)  1x60 g a.s./ha  BBCH 11 | 1 | 1 | - | - | 13.853 | 13.748 | 7.473 |
| 2 | N EU | Oct – Feb | 0.846 | 0.838 | 0.456 |
| Mar – May | 0.384 | 0.380 | 0.206 |
| Jun – Sep | 0.384 | 0.380 | 0.206 |
| 2 | S EU | Oct – Feb | 0.692 | 0.685 | 0.373 |
| Mar – May | 0.692 | 0.685 | 0.373 |
| Jun – Sep | 0.538 | 0.532 | 0.289 |
| Oilseed rape (spring)  2x60 g a.s./ha  BBCH 31 | 2 | 1 | - | - | 27.707 | 27.496 | 14.945 |
| 2 | N EU | Oct – Feb | 0.540 | 0.533 | 0.290 |
| Mar – May | 0.296 | 0.291 | 0.158 |
| Jun – Sep | 0.296 | 0.291 | 0.158 |
| 2 | S EU | Oct – Feb | 0.459 | 0.452 | 0.246 |
| Mar – May | 0.459 | 0.452 | 0.246 |
| Jun – Sep | 0.377 | 0.372 | 0.202 |
| Oilseed rape (spring)  2x60 g a.s./ha  BBCH 31  (single application) | 1 | 1 | - | - | 27.707 | 27.496 | 14.945 |
| 2 | N EU | Oct – Feb | 0.461 | 0.456 | 0.248 |
| Mar – May | 0.230 | 0.227 | 0.123 |
| Jun – Sep | 0.230 | 0.227 | 0.123 |
| 2 | S EU | Oct – Feb | 0.384 | 0.380 | 0.206 |
| Mar – May | 0.384 | 0.380 | 0.206 |
| Jun – Sep | 0.307 | 0.303 | 0.165 |
| Sugar beet  2x50 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 23.089 | 22.913 | 12.455 |
| 2 | N EU | Oct – Feb | 1.013 | 1.004 | 0.546 |
| Mar – May | 0.472 | 0.467 | 0.254 |
| Jun – Sep | 0.472 | 0.467 | 0.254 |
| 2 | S EU | Oct – Feb | 0.833 | 0.825 | 0.448 |
| Mar – May | 0.833 | 0.825 | 0.448 |
| Jun – Sep | 0.653 | 0.646 | 0.351 |
| Sugar beet  2x50 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 23.089 | 22.913 | 12.455 |
| 2 | N EU | Oct – Feb | 0.919 | 0.911 | 0.495 |
| Mar – May | 0.406 | 0.401 | 0.218 |
| Jun – Sep | 0.406 | 0.401 | 0.218 |
| 2 | S EU | Oct – Feb | 0.748 | 0.741 | 0.403 |
| Mar – May | 0.748 | 0.741 | 0.403 |
| Jun – Sep | 0.577 | 0.571 | 0.310 |
| Bulb vegetables (flower bulbs and flower tubers)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 10.621 | 10.540 | 5.729 |
| 2 | N EU | Oct – Feb | 0.944 | 0.936 | 0.509 |
| Mar – May | 0.412 | 0.408 | 0.222 |
| Jun – Sep | 0.412 | 0.408 | 0.222 |
| 2 | S EU | Oct – Feb | 0.767 | 0.760 | 0.413 |
| Mar – May | 0.767 | 0.760 | 0.413 |
| Jun – Sep | 0.590 | 0.584 | 0.317 |
| Bulb vegetables (flower bulbs and flower tubers)  2x34 g a.s./ha  BBCH 20 | 2 | 1 | - | - | 15.700 | 15.581 | 8.469 |
| 2 | N EU | Oct – Feb | 0.651 | 0.644 | 0.350 |
| Mar – May | 0.306 | 0.302 | 0.164 |
| Jun – Sep | 0.306 | 0.302 | 0.164 |
| 2 | S EU | Oct – Feb | 0.536 | 0.530 | 0.288 |
| Mar – May | 0.536 | 0.530 | 0.288 |
| Jun – Sep | 0.421 | 0.416 | 0.226 |
| Bulb vegetables (flower bulbs and flower tubers)  2x34 g a.s./ha  BBCH 20  (single application) | 1 | 1 | - | - | 15.700 | 15.581 | 8.469 |
| 2 | N EU | Oct – Feb | 0.588 | 0.583 | 0.317 |
| Mar – May | 0.261 | 0.258 | 0.140 |
| Jun – Sep | 0.261 | 0.258 | 0.140 |
| 2 | S EU | Oct – Feb | 0.479 | 0.475 | 0.258 |
| Mar – May | 0.479 | 0.475 | 0.258 |
| Jun – Sep | 0.370 | 0.367 | 0.199 |
| ~~Bulb vegetables (flower bulbs and flower tubers)~~  ~~2x34 g a.s./ha~~  ~~BBCH 12~~ | ~~2~~ | ~~1~~ | ~~-~~ | ~~-~~ | ~~15.700~~ | ~~15.581~~ | ~~8.469~~ |
| ~~2~~ | ~~N EU~~ | ~~Oct – Feb~~ | ~~0.766~~ | ~~0.759~~ | ~~0.412~~ |
| ~~Mar – May~~ | ~~0.352~~ | ~~0.348~~ | ~~0.189~~ |
| ~~Jun – Sep~~ | ~~0.352~~ | ~~0.348~~ | ~~0.189~~ |
| ~~2~~ | ~~S EU~~ | ~~Oct – Feb~~ | ~~0.628~~ | ~~0.622~~ | ~~0.338~~ |
| ~~Mar – May~~ | ~~0.628~~ | ~~0.622~~ | ~~0.338~~ |
| ~~Jun – Sep~~ | ~~0.490~~ | ~~0.485~~ | ~~0.263~~ |
| Bulb vegetables (flower bulbs and flower tubers)  1 ~~2~~x34 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 15.700 | 15.581 | 8.469 |
| 2 | N EU | Oct – Feb | 0.698 | 0.692 | 0.376 |
| Mar – May | 0.305 | 0.302 | 0.164 |
| Jun – Sep | 0.305 | 0.302 | 0.164 |
| 2 | S EU | Oct – Feb | 0.567 | 0.562 | 0.305 |
| Mar – May | 0.567 | 0.562 | 0.305 |
| Jun – Sep | 0.436 | 0.432 | 0.235 |
| Leafy vegetables (floriculture, perennial nursery crops)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 10.621 | 10.540 | 5.729 |
| 2 | N EU | Oct – Feb | 0.796 | 0.789 | 0.429 |
| Mar – May | 0.353 | 0.350 | 0.190 |
| Jun – Sep | 0.353 | 0.350 | 0.190 |
| 2 | S EU | Oct – Feb | 0.649 | 0.643 | 0.349 |
| Mar – May | 0.649 | 0.643 | 0.349 |
| Jun – Sep | 0.501 | 0.496 | 0.270 |
| Leafy vegetables (floriculture, perennial nursery crops)  2x34 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 15.700 | 15.581 | 8.469 |
| 2 | N EU | Oct – Feb | 0.651 | 0.644 | 0.350 |
| Mar – May | 0.306 | 0.302 | 0.164 |
| Jun – Sep | 0.306 | 0.302 | 0.164 |
| 2 | S EU | Oct – Feb | 0.536 | 0.530 | 0.288 |
| Mar – May | 0.536 | 0.530 | 0.288 |
| Jun – Sep | 0.421 | 0.416 | 0.226 |
| Leafy vegetables (floriculture, perennial nursery crops)  2x34 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 15.700 | 15.581 | 8.469 |
| 2 | N EU | Oct – Feb | 0.588 | 0.583 | 0.317 |
| Mar – May | 0.261 | 0.258 | 0.140 |
| Jun – Sep | 0.261 | 0.258 | 0.140 |
| 2 | S EU | Oct – Feb | 0.479 | 0.475 | 0.258 |
| Mar – May | 0.479 | 0.475 | 0.258 |
| Jun – Sep | 0.370 | 0.367 | 0.199 |
| Pome fruit (early) (tree nursery)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 11.207 | 11.084 | 6.024 |
| 2 | N EU | Oct – Feb | 1.403 | 1.380 | 0.750 |
| Mar – May | 0.931 | 0.911 | 0.495 |
| Jun – Sep | 0.931 | 0.911 | 0.495 |
| 2 | S EU | Oct – Feb | 1.246 | 1.223 | 0.665 |
| Mar – May | 1.246 | 1.223 | 0.665 |
| Jun – Sep | 1.088 | 1.067 | 0.580 |
| Pome fruit (late)  (tree nursery)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 10.908 | 10.807 | 5.874 |
| 2 | N EU | Oct – Feb | 1.119 | 1.104 | 0.600 |
| Mar – May | 0.647 | 0.635 | 0.345 |
| Jun – Sep | 0.647 | 0.635 | 0.345 |
| 2 | S EU | Oct – Feb | 0.962 | 0.947 | 0.515 |
| Mar – May | 0.962 | 0.947 | 0.515 |
| Jun – Sep | 0.804 | 0.791 | 0.430 |
| Pome fruit (early)  (tree nursery)  2x34 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 16.567 | 16.385 | 8.905 |
| 2 | N EU | Oct – Feb | 1.408 | 1.380 | 0.750 |
| Mar – May | 1.040 | 1.015 | 0.552 |
| Jun – Sep | 1.040 | 1.015 | 0.552 |
| 2 | S EU | Oct – Feb | 1.285 | 1.259 | 0.684 |
| Mar – May | 1.285 | 1.259 | 0.684 |
| Jun – Sep | 1.163 | 1.137 | 0.618 |
| Pome fruit (early)  (tree nursery)  2x34 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 16.567 | 16.385 | 8.905 |
| 2 | N EU | Oct – Feb | 1.037 | 1.020 | 0.554 |
| Mar – May | 0.688 | 0.673 | 0.366 |
| Jun – Sep | 0.688 | 0.673 | 0.366 |
| 2 | S EU | Oct – Feb | 0.921 | 0.904 | 0.491 |
| Mar – May | 0.921 | 0.904 | 0.491 |
| Jun – Sep | 0.805 | 0.789 | 0.429 |
| Pome fruit (late)  (tree nursery)  2x34 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 16.126 | 15.975 | 8.683 |
| 2 | N EU | Oct – Feb | 0.991 | 0.975 | 0.530 |
| Mar – May | 0.623 | 0.610 | 0.332 |
| Jun – Sep | 0.623 | 0.610 | 0.332 |
| 2 | S EU | Oct – Feb | 0.868 | 0.854 | 0.464 |
| Mar – May | 0.868 | 0.854 | 0.464 |
| Jun – Sep | 0.745 | 0.732 | 0.398 |
| Pome fruit (late)  (tree nursery)  2x34 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 16.126 | 15.975 | 8.683 |
| 2 | N EU | Oct – Feb | 0.827 | 0.816 | 0.443 |
| Mar – May | 0.478 | 0.469 | 0.255 |
| Jun – Sep | 0.478 | 0.469 | 0.255 |
| 2 | S EU | Oct – Feb | 0.711 | 0.700 | 0.381 |
| Mar – May | 0.711 | 0.700 | 0.381 |
| Jun – Sep | 0.594 | 0.585 | 0.318 |

N EU / S EU = Northern/ Southern Europe.

a twa-time as required by ecotox.

Table 8.9‑8: FOCUS Step 1-2 PECSW and PECSED for IM-1-4 following single / multiple application(s) of acetamiprid on various crops

| Application pattern | Number of applications | Step | Region | **Season** | **IM-1-4** | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Maximum PECSW [µg/L] | 21 d TWA PECSW [µg/L] a | Maximum PECSED [µg/L] |
| Maize 1x60 g a.s./ha BBCH 51 | 1 | 1 | - | - | 17.873 | 17.687 | 30.442 |
| 2 | N EU | Oct – Feb | 1.297 | 1.271 | 2.187 |
| Mar – May | 0.683 | 0.662 | 1.138 |
| Jun – Sep | 0.683 | 0.662 | 1.138 |
| 2 | S EU | Oct – Feb | 1.092 | 1.068 | 1.838 |
| Mar – May | 1.092 | 1.068 | 1.838 |
| Jun – Sep | 0.888 | 0.865 | 1.488 |
| Pome fruit (late)  1x80 g a.s./ha  BBCH 71 | 1 | 1 | - | - | 25.810 | 25.191 | 43.343 |
| 2 | N EU | Oct – Feb | 3.988 | 3.835 | 6.596 |
| Mar – May | 2.842 | 2.697 | 4.637 |
| Jun – Sep | 2.842 | 2.697 | 4.637 |
| 2 | S EU | Oct – Feb | 3.606 | 3.455 | 5.943 |
| Mar – May | 3.606 | 3.455 | 5.943 |
| Jun – Sep | 3.224 | 3.076 | 5.290 |
| Pome fruit (early)  2x25 g a.s./ha  BBCH 62 | 2 | 1 | - | - | 17.416 | 16.789 | 28.877 |
| 2 | N EU | Oct – Feb | 3.041 | 2.893 | 4.975 |
| Mar – May | 2.478 | 2.334 | 4.012 |
| Jun – Sep | 2.478 | 2.334 | 4.012 |
| 2 | S EU | Oct – Feb | 2.854 | 2.707 | 4.654 |
| Mar – May | 2.854 | 2.707 | 4.654 |
| Jun – Sep | 2.666 | 2.521 | 4.333 |
| Pome fruit (early)  2x25 g a.s./ha  BBCH 62 (single application) | 1 | 1 | - | - | 17.416 | 16.789 | 28.877 |
| 2 | N EU | Oct – Feb | 1.803 | 1.717 | 2.953 |
| Mar – May | 1.444 | 1.362 | 2.341 |
| Jun – Sep | 1.444 | 1.362 | 2.341 |
| 2 | S EU | Oct – Feb | 1.683 | 1.599 | 2.749 |
| Mar – May | 1.683 | 1.599 | 2.749 |
| Jun – Sep | 1.564 | 1.480 | 2.545 |
| Pome fruit (late)  2x25 g a.s./ha  BBCH 62 | 2 | 1 | - | - | 16.131 | 15.744 | 27.089 |
| 2 | N EU | Oct – Feb | 1.938 | 1.864 | 3.206 |
| Mar – May | 1.374 | 1.305 | 2.243 |
| Jun – Sep | 1.374 | 1.305 | 2.243 |
| 2 | S EU | Oct – Feb | 1.750 | 1.677 | 2.885 |
| Mar – May | 1.750 | 1.677 | 2.885 |
| Jun – Sep | 1.562 | 1.491 | 2.564 |
| Pome fruit (late)  2x25 g a.s./ha  BBCH 62 (single application) | 1 | 1 | - | - | 16.131 | 15.744 | 27.089 |
| 2 | N EU | Oct – Feb | 1.246 | 1.198 | 2.061 |
| Mar – May | 0.888 | 0.843 | 1.449 |
| Jun – Sep | 0.888 | 0.843 | 1.449 |
| 2 | S EU | Oct – Feb | 1.127 | 1.080 | 1.857 |
| Mar – May | 1.127 | 1.080 | 1.857 |
| Jun – Sep | 1.008 | 0.961 | 1.653 |
| Potato  1x36 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 10.724 | 10.612 | 18.265 |
| 2 | N EU | Oct – Feb | 2.252 | 2.226 | 3.831 |
| Mar – May | 0.999 | 0.982 | 1.690 |
| Jun – Sep | 0.999 | 0.982 | 1.690 |
| 2 | S EU | Oct – Feb | 1.835 | 1.811 | 3.117 |
| Mar – May | 1.835 | 1.811 | 3.117 |
| Jun – Sep | 1.417 | 1.397 | 2.404 |
| Spring cereals  2x35 g a.s./ha  BBCH 40 | 2 | 1 | - | - | 20.852 | 20.635 | 35.515 |
| 2 | N EU | Oct – Feb | 1.369 | 1.342 | 2.310 |
| Mar – May | 0.716 | 0.694 | 1.194 |
| Jun – Sep | 0.716 | 0.694 | 1.194 |
| 2 | S EU | Oct – Feb | 1.151 | 1.126 | 1.938 |
| Mar – May | 1.151 | 1.126 | 1.938 |
| Jun – Sep | 0.934 | 0.910 | 1.566 |
| Spring cereals  2x35 g a.s./ha  BBCH 40 (single application) | 1 | 1 | - | - | 20.852 | 20.635 | 35.515 |
| 2 | N EU | Oct – Feb | 0.876 | 0.860 | 1.480 |
| Mar – May | 0.446 | 0.433 | 0.745 |
| Jun – Sep | 0.446 | 0.433 | 0.745 |
| 2 | S EU | Oct – Feb | 0.733 | 0.718 | 1.235 |
| Mar – May | 0.733 | 0.718 | 1.235 |
| Jun – Sep | 0.589 | 0.576 | 0.990 |
| Spring cereals  2x35 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 20.852 | 20.635 | 35.515 |
| 2 | N EU | Oct – Feb | 3.145 | 3.106 | 5.345 |
| Mar – May | 1.426 | 1.399 | 2.406 |
| Jun – Sep | 1.426 | 1.399 | 2.406 |
| 2 | S EU | Oct – Feb | 2.572 | 2.537 | 4.366 |
| Mar – May | 2.572 | 2.537 | 4.366 |
| Jun – Sep | 1.999 | 1.968 | 3.386 |
| Spring cereals  2x35 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 20.852 | 20.635 | 35.515 |
| 2 | N EU | Oct – Feb | 2.548 | 2.520 | 4.337 |
| Mar – May | 1.115 | 1.097 | 1.888 |
| Jun – Sep | 1.115 | 1.097 | 1.888 |
| 2 | S EU | Oct – Feb | 2.070 | 2.046 | 3.521 |
| Mar – May | 2.070 | 2.046 | 3.521 |
| Jun – Sep | 1.592 | 1.571 | 2.704 |
| Winter cereals  2x36 g a.s./ha  BBCH 40 | 2 | 1 | - | - | 21.448 | 21.224 | 36.530 |
| 2 | N EU | Oct – Feb | 1.408 | 1.381 | 2.376 |
| Mar – May | 0.737 | 0.714 | 1.228 |
| Jun – Sep | 0.737 | 0.714 | 1.228 |
| 2 | S EU | Oct – Feb | 1.184 | 1.158 | 1.993 |
| Mar – May | 1.184 | 1.158 | 1.993 |
| Jun – Sep | 0.961 | 0.936 | 1.611 |
| Winter cereals  2x36 g a.s./ha  BBCH 40 (single application) | 1 | 1 | - | - | 21.448 | 21.224 | 36.530 |
| 2 | N EU | Oct – Feb | 0.901 | 0.885 | 1.522 |
| Mar – May | 0.459 | 0.446 | 0.767 |
| Jun – Sep | 0.459 | 0.446 | 0.767 |
| 2 | S EU | Oct – Feb | 0.754 | 0.738 | 1.270 |
| Mar – May | 0.754 | 0.738 | 1.270 |
| Jun – Sep | 0.606 | 0.592 | 1.019 |
| Winter cereals  1x30 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 8.937 | 8.843 | 15.221 |
| 2 | N EU | Oct – Feb | 2.184 | 2.160 | 3.717 |
| Mar – May | 0.956 | 0.940 | 1.618 |
| Jun – Sep | 0.956 | 0.940 | 1.618 |
| 2 | S EU | Oct – Feb | 1.774 | 1.753 | 3.018 |
| Mar – May | 1.774 | 1.753 | 3.018 |
| Jun – Sep | 1.365 | 1.347 | 2.318 |
| Oilseed rape (winter)  2x60 g a.s./ha  BBCH 31 | 2 | 1 | - | - | 35.746 | 35.374 | 60.883 |
| 2 | N EU | Oct – Feb | 2.450 | 2.404 | 4.136 |
| Mar – May | 1.269 | 1.231 | 2.118 |
| Jun – Sep | 1.269 | 1.231 | 2.118 |
| 2 | S EU | Oct – Feb | 2.057 | 2.013 | 3.464 |
| Mar – May | 2.057 | 2.013 | 3.464 |
| Jun – Sep | 1.663 | 1.622 | 2.791 |
| Oilseed rape (winter)  2x60 g a.s./ha  BBCH 31 (single application) | 1 | 1 | - | - | 35.746 | 35.374 | 60.883 |
| 2 | N EU | Oct – Feb | 1.502 | 1.474 | 2.537 |
| Mar – May | 0.765 | 0.743 | 1.278 |
| Jun – Sep | 0.765 | 0.743 | 1.278 |
| 2 | S EU | Oct – Feb | 1.256 | 1.231 | 2.117 |
| Mar – May | 1.256 | 1.231 | 2.117 |
| Jun – Sep | 1.010 | 0.987 | 1.698 |
| Oilseed rape (winter)  1x60 g a.s./ha  BBCH 11 | 1 | 1 | - | - | 17.873 | 17.687 | 30.442 |
| 2 | N EU | Oct – Feb | 2.730 | 2.694 | 4.636 |
| Mar – May | 1.256 | 1.231 | 2.117 |
| Jun – Sep | 1.256 | 1.231 | 2.117 |
| 2 | S EU | Oct – Feb | 2.239 | 2.206 | 3.796 |
| Mar – May | 2.239 | 2.206 | 3.796 |
| Jun – Sep | 1.747 | 1.718 | 2.957 |
| Oilseed rape (spring)  2x60 g a.s./ha  BBCH 31 | 2 | 1 | - | - | 35.746 | 35.374 | 60.883 |
| 2 | N EU | Oct – Feb | 2.450 | 2.404 | 4.136 |
| Mar – May | 1.269 | 1.231 | 2.118 |
| Jun – Sep | 1.269 | 1.231 | 2.118 |
| 2 | S EU | Oct – Feb | 2.057 | 2.013 | 3.464 |
| Mar – May | 2.057 | 2.013 | 3.464 |
| Jun – Sep | 1.663 | 1.622 | 2.791 |
| Oilseed rape (spring)  2x60 g a.s./ha  BBCH 31 (single application) | 1 | 1 | - | - | 35.746 | 35.374 | 60.883 |
| 2 | N EU | Oct – Feb | 1.502 | 1.474 | 2.537 |
| Mar – May | 0.765 | 0.743 | 1.278 |
| Jun – Sep | 0.765 | 0.743 | 1.278 |
| 2 | S EU | Oct – Feb | 1.256 | 1.231 | 2.117 |
| Mar – May | 1.256 | 1.231 | 2.117 |
| Jun – Sep | 1.010 | 0.987 | 1.698 |
| Sugar beet  2x50 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 29.788 | 29.478 | 50.736 |
| 2 | N EU | Oct – Feb | 4.776 | 4.717 | 8.118 |
| Mar – May | 2.151 | 2.112 | 3.634 |
| Jun – Sep | 2.151 | 2.112 | 3.634 |
| 2 | S EU | Oct – Feb | 3.901 | 3.849 | 6.623 |
| Mar – May | 3.901 | 3.849 | 6.623 |
| Jun – Sep | 3.026 | 2.980 | 5.129 |
| Sugar beet  2x50 g a.s./ha  BBCH 12 (single application) | 1 | 1 | - | - | 29.788 | 29.478 | 50.736 |
| 2 | N EU | Oct – Feb | 2.957 | 2.922 | 5.029 |
| Mar – May | 1.320 | 1.296 | 2.231 |
| Jun – Sep | 1.320 | 1.296 | 2.231 |
| 2 | S EU | Oct – Feb | 2.411 | 2.380 | 4.097 |
| Mar – May | 2.411 | 2.380 | 4.097 |
| Jun – Sep | 1.866 | 1.838 | 3.164 |
| Bulb vegetables (flower bulbs and flower tubers)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 13.703 | 13.560 | 23.339 |
| 2 | N EU | Oct – Feb | 3.035 | 3.000 | 5.163 |
| Mar – May | 1.340 | 1.317 | 2.267 |
| Jun – Sep | 1.340 | 1.317 | 2.267 |
| 2 | S EU | Oct – Feb | 2.470 | 2.439 | 4.198 |
| Mar – May | 2.470 | 2.439 | 4.198 |
| Jun – Sep | 1.905 | 1.878 | 3.232 |
| Bulb vegetables (flower bulbs and flower tubers)  2x34 g a.s./ha  BBCH 20 | 2 | 1 | - | - | 20.256 | 20.045 | 34.500 |
| 2 | N EU | Oct – Feb | 3.062 | 3.023 | 5.203 |
| Mar – May | 1.389 | 1.362 | 2.344 |
| Jun – Sep | 1.389 | 1.362 | 2.344 |
| 2 | S EU | Oct – Feb | 2.504 | 2.469 | 4.250 |
| Mar – May | 2.504 | 2.469 | 4.250 |
| Jun – Sep | 1.946 | 1.916 | 3.297 |
| Bulb vegetables (flower bulbs and flower tubers)  2x34 g a.s./ha  BBCH 20 (single application) | 1 | 1 | - | - | 20.256 | 20.045 | 34.500 |
| 2 | N EU | Oct – Feb | 1.895 | 1.872 | 3.222 |
| Mar – May | 0.851 | 0.836 | 1.438 |
| Jun – Sep | 0.851 | 0.836 | 1.438 |
| 2 | S EU | Oct – Feb | 1.547 | 1.527 | 2.627 |
| Mar – May | 1.547 | 1.527 | 2.627 |
| Jun – Sep | 1.199 | 1.181 | 2.032 |
| ~~Bulb vegetables (flower bulbs and flower tubers)~~  ~~2x34 g a.s./ha~~  ~~BBCH 12~~ | ~~2~~ | ~~1~~ | ~~-~~ | ~~-~~ | ~~20.256~~ | ~~20.045~~ | ~~34.500~~ |
| ~~2~~ | ~~N EU~~ | ~~Oct – Feb~~ | ~~3.619~~ | ~~3.577~~ | ~~6.156~~ |
| ~~Mar – May~~ | ~~1.612~~ | ~~1.584~~ | ~~2.725~~ |
| ~~Jun – Sep~~ | ~~1.612~~ | ~~1.584~~ | ~~2.725~~ |
| ~~2~~ | ~~S EU~~ | ~~Oct – Feb~~ | ~~2.950~~ | ~~2.912~~ | ~~5.012~~ |
| ~~Mar – May~~ | ~~2.950~~ | ~~2.912~~ | ~~5.012~~ |
| ~~Jun – Sep~~ | ~~2.281~~ | ~~2.248~~ | ~~3.869~~ |
| Bulb vegetables (flower bulbs and flower tubers)  1 ~~2~~x34 g a.s./ha  BBCH 12 (single application) | 1 | 1 | - | - | 20.256 | 20.045 | 34.500 |
| 2 | N EU | Oct – Feb | 2.243 | 2.217 | 3.816 |
| Mar – May | 0.990 | 0.974 | 1.676 |
| Jun – Sep | 0.990 | 0.974 | 1.676 |
| 2 | S EU | Oct – Feb | 1.825 | 1.803 | 3.103 |
| Mar – May | 1.825 | 1.803 | 3.103 |
| Jun – Sep | 1.408 | 1.388 | 2.389 |
| Leafy vegetables (floriculture, perennial nursery crops)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 13.703 | 13.560 | 23.339 |
| 2 | N EU | Oct – Feb | 2.564 | 2.533 | 4.359 |
| Mar – May | 1.151 | 1.130 | 1.945 |
| Jun – Sep | 1.151 | 1.130 | 1.945 |
| 2 | S EU | Oct – Feb | 2.093 | 2.065 | 3.554 |
| Mar – May | 2.093 | 2.065 | 3.554 |
| Jun – Sep | 1.622 | 1.598 | 2.750 |
| Leafy vegetables (floriculture, perennial nursery crops)  2x34 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 20.256 | 20.045 | 34.500 |
| 2 | N EU | Oct – Feb | 3.062 | 3.023 | 5.203 |
| Mar – May | 1.389 | 1.362 | 2.344 |
| Jun – Sep | 1.389 | 1.362 | 2.344 |
| 2 | S EU | Oct – Feb | 2.504 | 2.469 | 4.250 |
| Mar – May | 2.504 | 2.469 | 4.250 |
| Jun – Sep | 1.946 | 1.916 | 3.297 |
| Leafy vegetables (floriculture, perennial nursery crops)  2x34 g a.s./ha  BBCH 12 (single application) | 1 | 1 | - | - | 20.256 | 20.045 | 34.500 |
| 2 | N EU | Oct – Feb | 1.895 | 1.872 | 3.222 |
| Mar – May | 0.851 | 0.836 | 1.438 |
| Jun – Sep | 0.851 | 0.836 | 1.438 |
| 2 | S EU | Oct – Feb | 1.547 | 1.527 | 2.627 |
| Mar – May | 1.547 | 1.527 | 2.627 |
| Jun – Sep | 1.199 | 1.181 | 2.032 |
| Pome fruit (early) (tree nursery)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 16.023 | 15.446 | 26.567 |
| 2 | N EU | Oct – Feb | 4.729 | 4.562 | 7.847 |
| Mar – May | 3.223 | 3.066 | 5.272 |
| Jun – Sep | 3.223 | 3.066 | 5.272 |
| 2 | S EU | Oct – Feb | 4.227 | 4.063 | 6.989 |
| Mar – May | 4.227 | 4.063 | 6.989 |
| Jun – Sep | 3.725 | 3.565 | 6.130 |
| Pome fruit (late)  (tree nursery)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 14.841 | 14.485 | 24.922 |
| 2 | N EU | Oct – Feb | 3.706 | 3.607 | 6.206 |
| Mar – May | 2.199 | 2.112 | 3.632 |
| Jun – Sep | 2.199 | 2.112 | 3.632 |
| 2 | S EU | Oct – Feb | 3.204 | 3.109 | 5.348 |
| Mar – May | 3.204 | 3.109 | 5.348 |
| Jun – Sep | 2.701 | 2.610 | 4.490 |
| Pome fruit (early)  (tree nursery)  2x34 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 23.686 | 22.833 | 39.273 |
| 2 | N EU | Oct – Feb | 5.835 | 5.621 | 9.668 |
| Mar – May | 4.050 | 3.849 | 6.618 |
| Jun – Sep | 4.050 | 3.849 | 6.618 |
| 2 | S EU | Oct – Feb | 5.240 | 5.030 | 8.651 |
| Mar – May | 5.240 | 5.030 | 8.651 |
| Jun – Sep | 4.645 | 4.440 | 7.635 |
| Pome fruit (early)  (tree nursery)  2x34 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 23.686 | 22.833 | 39.273 |
| 2 | N EU | Oct – Feb | 3.496 | 3.372 | 5.800 |
| Mar – May | 2.382 | 2.266 | 3.897 |
| Jun – Sep | 2.382 | 2.266 | 3.897 |
| 2 | S EU | Oct – Feb | 3.124 | 3.003 | 5.166 |
| Mar – May | 3.124 | 3.003 | 5.166 |
| Jun – Sep | 2.753 | 2.635 | 4.531 |
| Pome fruit (late)  (tree nursery)  2x34 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 21.938 | 21.412 | 36.841 |
| 2 | N EU | Oct – Feb | 4.333 | 4.220 | 7.261 |
| Mar – May | 2.549 | 2.449 | 4.211 |
| Jun – Sep | 2.549 | 2.449 | 4.211 |
| 2 | S EU | Oct – Feb | 3.738 | 3.630 | 6.244 |
| Mar – May | 3.738 | 3.630 | 6.244 |
| Jun – Sep | 3.144 | 3.039 | 5.228 |
| Pome fruit (late)  (tree nursery)  2x34 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 21.938 | 21.412 | 36.841 |
| 2 | N EU | Oct – Feb | 2.739 | 2.666 | 4.587 |
| Mar – May | 1.625 | 1.561 | 2.684 |
| Jun – Sep | 1.625 | 1.561 | 2.684 |
| 2 | S EU | Oct – Feb | 2.368 | 2.298 | 3.953 |
| Mar – May | 2.368 | 2.298 | 3.953 |
| Jun – Sep | 1.997 | 1.929 | 3.319 |

N EU / S EU = Northern/ Southern Europe.

a twa-time as required by ecotox.

Table 8.9‑9: FOCUS Step 1-2 PECSW and PECSED for IC-0 following single / multiple application(s) of of acetamiprid on various crops

| Application pattern | Number of applications | Step | Region | **Season** | **IC-0** | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Maximum PECSW [µg/L] | 21 d TWA PECSW [µg/L] a | Maximum PECSED [µg/L] |
| Maize 1x60 g a.s./ha BBCH 51 | 1 | 1 | - | - | 5.074 | 5.021 | 6.166 |
| 2 | N EU | Oct – Feb | 0.231 | 0.225 | 0.276 |
| Mar – May | 0.155 | 0.149 | 0.183 |
| Jun – Sep | 0.155 | 0.149 | 0.183 |
| 2 | S EU | Oct – Feb | 0.206 | 0.200 | 0.245 |
| Mar – May | 0.206 | 0.200 | 0.245 |
| Jun – Sep | 0.180 | 0.174 | 0.214 |
| Pome fruit (late)  1x80 g a.s./ha  BBCH 71 | 1 | 1 | - | - | 7.485 | 7.313 | 8.977 |
| 2 | N EU | Oct – Feb | 1.025 | 0.982 | 1.205 |
| Mar – May | 0.882 | 0.840 | 1.030 |
| Jun – Sep | 0.882 | 0.840 | 1.030 |
| 2 | S EU | Oct – Feb | 0.977 | 0.934 | 1.146 |
| Mar – May | 0.977 | 0.934 | 1.146 |
| Jun – Sep | 0.929 | 0.887 | 1.088 |
| Pome fruit (early)  2x25 g a.s./ha  BBCH 62 | 2 | 1 | - | - | 5.146 | 4.972 | 6.101 |
| 2 | N EU | Oct – Feb | 0.876 | 0.833 | 1.022 |
| Mar – May | 0.841 | 0.791 | 0.964 |
| Jun – Sep | 0.841 | 0.791 | 0.964 |
| 2 | S EU | Oct – Feb | 0.860 | 0.817 | 1.003 |
| Mar – May | 0.860 | 0.817 | 1.003 |
| Jun – Sep | 0.844 | 0.802 | 0.983 |
| Pome fruit (early)  2x25 g a.s./ha  BBCH 62 (single application) | 1 | 1 | - | - | 5.146 | 4.972 | 6.101 |
| 2 | N EU | Oct – Feb | 0.531 | 0.506 | 0.621 |
| Mar – May | 0.507 | 0.464 | 0.567 |
| Jun – Sep | 0.507 | 0.464 | 0.567 |
| 2 | S EU | Oct – Feb | 0.516 | 0.492 | 0.603 |
| Mar – May | 0.516 | 0.492 | 0.603 |
| Jun – Sep | 0.507 | 0.476 | 0.585 |
| Pome fruit (late)  2x25 g a.s./ha  BBCH 62 | 2 | 1 | - | - | 4.678 | 4.570 | 5.610 |
| 2 | N EU | Oct – Feb | 0.458 | 0.438 | 0.537 |
| Mar – May | 0.410 | 0.390 | 0.478 |
| Jun – Sep | 0.410 | 0.390 | 0.478 |
| 2 | S EU | Oct – Feb | 0.442 | 0.422 | 0.517 |
| Mar – May | 0.442 | 0.422 | 0.517 |
| Jun – Sep | 0.426 | 0.406 | 0.498 |
| Pome fruit (late)  2x25 g a.s./ha  BBCH 62 (single application) | 1 | 1 | - | - | 4.678 | 4.570 | 5.610 |
| 2 | N EU | Oct – Feb | 0.320 | 0.307 | 0.376 |
| Mar – May | 0.276 | 0.262 | 0.322 |
| Jun – Sep | 0.276 | 0.262 | 0.322 |
| 2 | S EU | Oct – Feb | 0.305 | 0.292 | 0.358 |
| Mar – May | 0.305 | 0.292 | 0.358 |
| Jun – Sep | 0.290 | 0.277 | 0.340 |
| Potato  1x36 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 3.044 | 3.013 | 3.699 |
| 2 | N EU | Oct – Feb | 0.323 | 0.317 | 0.390 |
| Mar – May | 0.166 | 0.162 | 0.199 |
| Jun – Sep | 0.166 | 0.162 | 0.199 |
| 2 | S EU | Oct – Feb | 0.271 | 0.266 | 0.326 |
| Mar – May | 0.271 | 0.266 | 0.326 |
| Jun – Sep | 0.218 | 0.214 | 0.263 |
| Spring cereals  2x35 g a.s./ha  BBCH 40 | 2 | 1 | - | - | 5.919 | 5.858 | 7.193 |
| 2 | N EU | Oct – Feb | 0.199 | 0.193 | 0.237 |
| Mar – May | 0.144 | 0.138 | 0.169 |
| Jun – Sep | 0.144 | 0.138 | 0.169 |
| 2 | S EU | Oct – Feb | 0.181 | 0.175 | 0.214 |
| Mar – May | 0.181 | 0.175 | 0.214 |
| Jun – Sep | 0.162 | 0.156 | 0.192 |
| Spring cereals  2x35 g a.s./ha  BBCH 40 (single application) | 1 | 1 | - | - | 5.919 | 5.858 | 7.193 |
| 2 | N EU | Oct – Feb | 0.150 | 0.146 | 0.179 |
| Mar – May | 0.096 | 0.093 | 0.114 |
| Jun – Sep | 0.096 | 0.093 | 0.114 |
| 2 | S EU | Oct – Feb | 0.132 | 0.128 | 0.157 |
| Mar – May | 0.132 | 0.128 | 0.157 |
| Jun – Sep | 0.114 | 0.110 | 0.136 |
| Spring cereals  2x35 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 5.919 | 5.858 | 7.193 |
| 2 | N EU | Oct – Feb | 0.404 | 0.396 | 0.486 |
| Mar – May | 0.225 | 0.218 | 0.268 |
| Jun – Sep | 0.225 | 0.218 | 0.268 |
| 2 | S EU | Oct – Feb | 0.344 | 0.337 | 0.413 |
| Mar – May | 0.344 | 0.337 | 0.413 |
| Jun – Sep | 0.284 | 0.278 | 0.341 |
| Spring cereals  2x35 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 5.919 | 5.858 | 7.193 |
| 2 | N EU | Oct – Feb | 0.358 | 0.353 | 0.433 |
| Mar – May | 0.180 | 0.176 | 0.216 |
| Jun – Sep | 0.180 | 0.176 | 0.216 |
| 2 | S EU | Oct – Feb | 0.299 | 0.294 | 0.361 |
| Mar – May | 0.299 | 0.294 | 0.361 |
| Jun – Sep | 0.239 | 0.235 | 0.288 |
| Winter cereals  2x36 g a.s./ha  BBCH 40 | 2 | 1 | - | - | 6.088 | 6.025 | 7.399 |
| 2 | N EU | Oct – Feb | 0.205 | 0.199 | 0.244 |
| Mar – May | 0.148 | 0.142 | 0.174 |
| Jun – Sep | 0.148 | 0.142 | 0.174 |
| 2 | S EU | Oct – Feb | 0.186 | 0.180 | 0.221 |
| Mar – May | 0.186 | 0.180 | 0.221 |
| Jun – Sep | 0.167 | 0.161 | 0.197 |
| Winter cereals  2x36 g a.s./ha  BBCH 40 (single application) | 1 | 1 | - | - | 6.088 | 6.025 | 7.399 |
| 2 | N EU | Oct – Feb | 0.154 | 0.150 | 0.184 |
| Mar – May | 0.099 | 0.095 | 0.117 |
| Jun – Sep | 0.099 | 0.095 | 0.117 |
| 2 | S EU | Oct – Feb | 0.136 | 0.132 | 0.162 |
| Mar – May | 0.136 | 0.132 | 0.162 |
| Jun – Sep | 0.117 | 0.114 | 0.139 |
| Winter cereals  1x30 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 2.537 | 2.511 | 3.083 |
| 2 | N EU | Oct – Feb | 0.307 | 0.303 | 0.372 |
| Mar – May | 0.154 | 0.150 | 0.185 |
| Jun – Sep | 0.154 | 0.150 | 0.185 |
| 2 | S EU | Oct – Feb | 0.256 | 0.252 | 0.309 |
| Mar – May | 0.256 | 0.252 | 0.309 |
| Jun – Sep | 0.205 | 0.201 | 0.247 |
| Oilseed rape (winter)  2x60 g a.s./ha  BBCH 31 | 2 | 1 | - | - | 10.147 | 10.042 | 12.332 |
| 2 | N EU | Oct – Feb | 0.351 | 0.340 | 0.417 |
| Mar – May | 0.250 | 0.240 | 0.294 |
| Jun – Sep | 0.250 | 0.240 | 0.294 |
| 2 | S EU | Oct – Feb | 0.317 | 0.307 | 0.376 |
| Mar – May | 0.317 | 0.307 | 0.376 |
| Jun – Sep | 0.283 | 0.273 | 0.335 |
| Oilseed rape (winter)  2x60 g a.s./ha  BBCH 31 (single application) | 1 | 1 | - | - | 10.147 | 10.042 | 12.332 |
| 2 | N EU | Oct – Feb | 0.257 | 0.250 | 0.307 |
| Mar – May | 0.165 | 0.159 | 0.195 |
| Jun – Sep | 0.165 | 0.159 | 0.195 |
| 2 | S EU | Oct – Feb | 0.226 | 0.220 | 0.270 |
| Mar – May | 0.226 | 0.220 | 0.270 |
| Jun – Sep | 0.195 | 0.189 | 0.232 |
| Oilseed rape (winter)  1x60 g a.s./ha  BBCH 11 | 1 | 1 | - | - | 5.074 | 5.021 | 6.166 |
| 2 | N EU | Oct – Feb | 0.410 | 0.402 | 0.494 |
| Mar – May | 0.226 | 0.220 | 0.270 |
| Jun – Sep | 0.226 | 0.220 | 0.270 |
| 2 | S EU | Oct – Feb | 0.349 | 0.341 | 0.419 |
| Mar – May | 0.349 | 0.341 | 0.419 |
| Jun – Sep | 0.287 | 0.281 | 0.344 |
| Oilseed rape (spring)  2x60 g a.s./ha  BBCH 31 | 2 | 1 | - | - | 10.147 | 10.042 | 12.332 |
| 2 | N EU | Oct – Feb | 0.351 | 0.340 | 0.417 |
| Mar – May | 0.250 | 0.240 | 0.294 |
| Jun – Sep | 0.250 | 0.240 | 0.294 |
| 2 | S EU | Oct – Feb | 0.317 | 0.307 | 0.376 |
| Mar – May | 0.317 | 0.307 | 0.376 |
| Jun – Sep | 0.283 | 0.273 | 0.335 |
| Oilseed rape (spring)  2x60 g a.s./ha  BBCH 31 (single application) | 1 | 1 | - | - | 10.147 | 10.042 | 12.332 |
| 2 | N EU | Oct – Feb | 0.257 | 0.250 | 0.307 |
| Mar – May | 0.165 | 0.159 | 0.195 |
| Jun – Sep | 0.165 | 0.159 | 0.195 |
| 2 | S EU | Oct – Feb | 0.226 | 0.220 | 0.270 |
| Mar – May | 0.226 | 0.220 | 0.270 |
| Jun – Sep | 0.195 | 0.189 | 0.232 |
| Sugar beet  2x50 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 8.456 | 8.369 | 10.276 |
| 2 | N EU | Oct – Feb | 0.526 | 0.515 | 0.633 |
| Mar – May | 0.302 | 0.293 | 0.359 |
| Jun – Sep | 0.302 | 0.293 | 0.359 |
| 2 | S EU | Oct – Feb | 0.451 | 0.441 | 0.541 |
| Mar – May | 0.451 | 0.441 | 0.541 |
| Jun – Sep | 0.376 | 0.367 | 0.450 |
| Sugar beet  2x50 g a.s./ha  BBCH 12 (single application) | 1 | 1 | - | - | 8.456 | 8.369 | 10.276 |
| 2 | N EU | Oct – Feb | 0.427 | 0.420 | 0.515 |
| Mar – May | 0.222 | 0.217 | 0.266 |
| Jun – Sep | 0.222 | 0.217 | 0.266 |
| 2 | S EU | Oct – Feb | 0.359 | 0.352 | 0.432 |
| Mar – May | 0.359 | 0.352 | 0.432 |
| Jun – Sep | 0.291 | 0.285 | 0.349 |
| Bulb vegetables (flower bulbs and flower tubers)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 3.890 | 3.850 | 4.727 |
| 2 | N EU | Oct – Feb | 0.432 | 0.425 | 0.522 |
| Mar – May | 0.220 | 0.215 | 0.264 |
| Jun – Sep | 0.220 | 0.215 | 0.264 |
| 2 | S EU | Oct – Feb | 0.361 | 0.355 | 0.436 |
| Mar – May | 0.361 | 0.355 | 0.436 |
| Jun – Sep | 0.291 | 0.285 | 0.350 |
| Bulb vegetables (flower bulbs and flower tubers)  2x34 g a.s./ha  BBCH 20 | 2 | 1 | - | - | 5.750 | 5.691 | 6.988 |
| 2 | N EU | Oct – Feb | 0.342 | 0.335 | 0.411 |
| Mar – May | 0.199 | 0.193 | 0.236 |
| Jun – Sep | 0.199 | 0.193 | 0.236 |
| 2 | S EU | Oct – Feb | 0.294 | 0.287 | 0.353 |
| Mar – May | 0.294 | 0.287 | 0.353 |
| Jun – Sep | 0.246 | 0.240 | 0.295 |
| Bulb vegetables (flower bulbs and flower tubers)  2x34 g a.s./ha  BBCH 20 (single application) | 1 | 1 | - | - | 5.750 | 5.691 | 6.988 |
| 2 | N EU | Oct – Feb | 0.276 | 0.271 | 0.333 |
| Mar – May | 0.146 | 0.142 | 0.174 |
| Jun – Sep | 0.146 | 0.142 | 0.174 |
| 2 | S EU | Oct – Feb | 0.232 | 0.228 | 0.280 |
| Mar – May | 0.232 | 0.228 | 0.280 |
| Jun – Sep | 0.189 | 0.185 | 0.227 |
| ~~Bulb vegetables (flower bulbs and flower tubers)~~  ~~2x34 g a.s./ha~~  ~~BBCH 12~~ | ~~2~~ | ~~1~~ | ~~-~~ | ~~-~~ | ~~5.750~~ | ~~5.691~~ | ~~6.988~~ |
| ~~2~~ | ~~N EU~~ | ~~Oct – Feb~~ | ~~0.389~~ | ~~0.382~~ | ~~0.469~~ |
| ~~Mar – May~~ | ~~0.218~~ | ~~0.212~~ | ~~0.260~~ |
| ~~Jun – Sep~~ | ~~0.218~~ | ~~0.212~~ | ~~0.260~~ |
| ~~2~~ | ~~S EU~~ | ~~Oct – Feb~~ | ~~0.332~~ | ~~0.325~~ | ~~0.399~~ |
| ~~Mar – May~~ | ~~0.332~~ | ~~0.325~~ | ~~0.399~~ |
| ~~Jun – Sep~~ | ~~0.275~~ | ~~0.268~~ | ~~0.329~~ |
| Bulb vegetables (flower bulbs and flower tubers)  1 ~~2~~x34 g a.s./ha  BBCH 12 (single application) | 1 | 1 | - | - | 5.750 | 5.691 | 6.988 |
| 2 | N EU | Oct – Feb | 0.319 | 0.314 | 0.386 |
| Mar – May | 0.163 | 0.159 | 0.195 |
| Jun – Sep | 0.163 | 0.159 | 0.195 |
| 2 | S EU | Oct – Feb | 0.267 | 0.262 | 0.322 |
| Mar – May | 0.267 | 0.262 | 0.322 |
| Jun – Sep | 0.215 | 0.211 | 0.259 |
| Leafy vegetables (floriculture, perennial nursery crops)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 3.890 | 3.850 | 4.727 |
| 2 | N EU | Oct – Feb | 0.373 | 0.367 | 0.450 |
| Mar – May | 0.197 | 0.192 | 0.235 |
| Jun – Sep | 0.197 | 0.192 | 0.235 |
| 2 | S EU | Oct – Feb | 0.314 | 0.308 | 0.379 |
| Mar – May | 0.314 | 0.308 | 0.379 |
| Jun – Sep | 0.256 | 0.250 | 0.307 |
| Leafy vegetables (floriculture, perennial nursery crops)  2x34 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 5.750 | 5.691 | 6.988 |
| 2 | N EU | Oct – Feb | 0.342 | 0.335 | 0.411 |
| Mar – May | 0.199 | 0.193 | 0.236 |
| Jun – Sep | 0.199 | 0.193 | 0.236 |
| 2 | S EU | Oct – Feb | 0.294 | 0.287 | 0.353 |
| Mar – May | 0.294 | 0.287 | 0.353 |
| Jun – Sep | 0.246 | 0.240 | 0.295 |
| Leafy vegetables (floriculture, perennial nursery crops)  2x34 g a.s./ha  BBCH 12 (single application) | 1 | 1 | - | - | 5.750 | 5.691 | 6.988 |
| 2 | N EU | Oct – Feb | 0.276 | 0.271 | 0.333 |
| Mar – May | 0.146 | 0.142 | 0.174 |
| Jun – Sep | 0.146 | 0.142 | 0.174 |
| 2 | S EU | Oct – Feb | 0.232 | 0.228 | 0.280 |
| Mar – May | 0.232 | 0.228 | 0.280 |
| Jun – Sep | 0.189 | 0.185 | 0.227 |
| Pome fruit (early) (tree nursery)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 4.735 | 4.574 | 5.613 |
| 2 | N EU | Oct – Feb | 1.153 | 1.106 | 1.358 |
| Mar – May | 0.965 | 0.920 | 1.129 |
| Jun – Sep | 0.965 | 0.920 | 1.129 |
| 2 | S EU | Oct – Feb | 1.090 | 1.044 | 1.281 |
| Mar – May | 1.090 | 1.044 | 1.281 |
| Jun – Sep | 1.027 | 0.982 | 1.205 |
| Pome fruit (late)  (tree nursery)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 4.304 | 4.205 | 5.162 |
| 2 | N EU | Oct – Feb | 0.765 | 0.739 | 0.907 |
| Mar – May | 0.577 | 0.553 | 0.678 |
| Jun – Sep | 0.577 | 0.553 | 0.678 |
| 2 | S EU | Oct – Feb | 0.703 | 0.677 | 0.831 |
| Mar – May | 0.703 | 0.677 | 0.831 |
| Jun – Sep | 0.640 | 0.615 | 0.755 |
| Pome fruit (early)  (tree nursery)  2x34 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 6.999 | 6.761 | 8.298 |
| 2 | N EU | Oct – Feb | 1.337 | 1.278 | 1.568 |
| Mar – May | 1.184 | 1.127 | 1.382 |
| Jun – Sep | 1.184 | 1.127 | 1.382 |
| 2 | S EU | Oct – Feb | 1.286 | 1.228 | 1.506 |
| Mar – May | 1.286 | 1.228 | 1.506 |
| Jun – Sep | 1.235 | 1.177 | 1.444 |
| Pome fruit (early)  (tree nursery)  2x34 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 6.999 | 6.761 | 8.298 |
| 2 | N EU | Oct – Feb | 0.852 | 0.818 | 1.004 |
| Mar – May | 0.713 | 0.680 | 0.834 |
| Jun – Sep | 0.713 | 0.680 | 0.834 |
| 2 | S EU | Oct – Feb | 0.806 | 0.772 | 0.947 |
| Mar – May | 0.806 | 0.772 | 0.947 |
| Jun – Sep | 0.759 | 0.726 | 0.891 |
| Pome fruit (late)  (tree nursery)  2x34 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 6.363 | 6.216 | 7.630 |
| 2 | N EU | Oct – Feb | 0.769 | 0.740 | 0.908 |
| Mar – May | 0.616 | 0.588 | 0.722 |
| Jun – Sep | 0.616 | 0.588 | 0.722 |
| 2 | S EU | Oct – Feb | 0.718 | 0.689 | 0.846 |
| Mar – May | 0.718 | 0.689 | 0.846 |
| Jun – Sep | 0.667 | 0.639 | 0.784 |
| Pome fruit (late)  (tree nursery)  2x34 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 6.363 | 6.216 | 7.630 |
| 2 | N EU | Oct – Feb | 0.566 | 0.547 | 0.671 |
| Mar – May | 0.427 | 0.409 | 0.501 |
| Jun – Sep | 0.427 | 0.409 | 0.501 |
| 2 | S EU | Oct – Feb | 0.519 | 0.501 | 0.614 |
| Mar – May | 0.519 | 0.501 | 0.614 |
| Jun – Sep | 0.473 | 0.455 | 0.558 |

N EU / S EU = Northern/ Southern Europe.

a twa-time as required by ecotox.

Table 8.9‑10: FOCUS Step 1-2 PECSW and PECSED for IM-1-5 following single / multiple application(s) of acetamiprid on various crops

| Application pattern | Number of applications | Step | Region | **Season** | **IM-1-5** | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Maximum PECSW [µg/L] | 21 d TWA PECSW [µg/L] a | Maximum PECSED [µg/L] |
| Maize 1x60 g a.s./ha BBCH 51 | 1 | 1 | - | - | 2.474 | 2.456 | 8.039 |
| 2 | N EU | Oct – Feb | 0.308 | 0.305 | 0.999 |
| Mar – May | 0.123 | 0.122 | 0.400 |
| Jun – Sep | 0.123 | 0.122 | 0.400 |
| 2 | S EU | Oct – Feb | 0.246 | 0.244 | 0.799 |
| Mar – May | 0.246 | 0.244 | 0.799 |
| Jun – Sep | 0.185 | 0.183 | 0.600 |
| Pome fruit (late)  1x80 g a.s./ha  BBCH 71 | 1 | 1 | - | - | 3.298 | 3.274 | 10.719 |
| 2 | N EU | Oct – Feb | 0.574 | 0.570 | 1.865 |
| Mar – May | 0.230 | 0.228 | 0.746 |
| Jun – Sep | 0.230 | 0.228 | 0.746 |
| 2 | S EU | Oct – Feb | 0.459 | 0.456 | 1.492 |
| Mar – May | 0.459 | 0.456 | 1.492 |
| Jun – Sep | 0.344 | 0.342 | 1.119 |
| Pome fruit  (early & late)  2x25 g a.s./ha  BBCH 62 | 2 | 1 | - | - | 2.061 | 2.046 | 6.699 |
| 2 | N EU | Oct – Feb | 0.357 | 0.354 | 1.159 |
| Mar – May | 0.143 | 0.142 | 0.464 |
| Jun – Sep | 0.143 | 0.142 | 0.464 |
| 2 | S EU | Oct – Feb | 0.285 | 0.283 | 0.928 |
| Mar – May | 0.285 | 0.283 | 0.928 |
| Jun – Sep | 0.214 | 0.213 | 0.696 |
| Pome fruit  (early & late)  2x25 g a.s./ha  BBCH 62 (single application) | 1 | 1 | - | - | 2.061 | 2.046 | 6.699 |
| 2 | N EU | Oct – Feb | 0.179 | 0.178 | 0.583 |
| Mar – May | 0.072 | 0.071 | 0.233 |
| Jun – Sep | 0.072 | 0.071 | 0.233 |
| 2 | S EU | Oct – Feb | 0.144 | 0.142 | 0.466 |
| Mar – May | 0.144 | 0.142 | 0.466 |
| Jun – Sep | 0.108 | 0.107 | 0.350 |
| Potato  1x36 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 1.484 | 1.473 | 4.824 |
| 2 | N EU | Oct – Feb | 0.627 | 0.623 | 2.039 |
| Mar – May | 0.251 | 0.249 | 0.815 |
| Jun – Sep | 0.251 | 0.249 | 0.815 |
| 2 | S EU | Oct – Feb | 0.502 | 0.498 | 1.631 |
| Mar – May | 0.502 | 0.498 | 1.631 |
| Jun – Sep | 0.376 | 0.374 | 1.223 |
| Spring cereals  2x35 g a.s./ha  BBCH 40 | 2 | 1 | - | - | 2.886 | 2.865 | 9.379 |
| 2 | N EU | Oct – Feb | 0.428 | 0.424 | 1.389 |
| Mar – May | 0.171 | 0.170 | 0.556 |
| Jun – Sep | 0.171 | 0.170 | 0.556 |
| 2 | S EU | Oct – Feb | 0.342 | 0.340 | 1.111 |
| Mar – May | 0.342 | 0.340 | 1.111 |
| Jun – Sep | 0.257 | 0.255 | 0.834 |
| Spring cereals  2x35 g a.s./ha  BBCH 40 (single application) | 1 | 1 | - | - | 2.886 | 2.865 | 9.379 |
| 2 | N EU | Oct – Feb | 0.215 | 0.214 | 0.700 |
| Mar – May | 0.086 | 0.086 | 0.280 |
| Jun – Sep | 0.086 | 0.086 | 0.280 |
| 2 | S EU | Oct – Feb | 0.172 | 0.171 | 0.560 |
| Mar – May | 0.172 | 0.171 | 0.560 |
| Jun – Sep | 0.129 | 0.128 | 0.420 |
| Spring cereals  2x35 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 2.886 | 2.865 | 9.379 |
| 2 | N EU | Oct – Feb | 1.405 | 1.395 | 4.567 |
| Mar – May | 0.562 | 0.558 | 1.827 |
| Jun – Sep | 0.562 | 0.558 | 1.827 |
| 2 | S EU | Oct – Feb | 1.124 | 1.116 | 3.654 |
| Mar – May | 1.124 | 1.116 | 3.654 |
| Jun – Sep | 0.843 | 0.837 | 2.740 |
| Spring cereals  2x35 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 2.886 | 2.865 | 9.379 |
| 2 | N EU | Oct – Feb | 0.717 | 0.712 | 2.332 |
| Mar – May | 0.287 | 0.285 | 0.933 |
| Jun – Sep | 0.287 | 0.285 | 0.933 |
| 2 | S EU | Oct – Feb | 0.574 | 0.570 | 1.865 |
| Mar – May | 0.574 | 0.570 | 1.865 |
| Jun – Sep | 0.431 | 0.427 | 1.399 |
| Winter cereals  2x36 g a.s./ha  BBCH 40 | 2 | 1 | - | - | 2.968 | 2.947 | 9.647 |
| 2 | N EU | Oct – Feb | 0.440 | 0.437 | 1.429 |
| Mar – May | 0.176 | 0.175 | 0.572 |
| Jun – Sep | 0.176 | 0.175 | 0.572 |
| 2 | S EU | Oct – Feb | 0.352 | 0.349 | 1.143 |
| Mar – May | 0.352 | 0.349 | 1.143 |
| Jun – Sep | 0.264 | 0.262 | 0.857 |
| Winter cereals  2x36 g a.s./ha  BBCH 40 (single application) | 1 | 1 | - | - | 2.968 | 2.947 | 9.647 |
| 2 | N EU | Oct – Feb | 0.221 | 0.220 | 0.720 |
| Mar – May | 0.089 | 0.088 | 0.288 |
| Jun – Sep | 0.089 | 0.088 | 0.288 |
| 2 | S EU | Oct – Feb | 0.177 | 0.176 | 0.576 |
| Mar – May | 0.177 | 0.176 | 0.576 |
| Jun – Sep | 0.133 | 0.132 | 0.432 |
| Winter cereals  1x30 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 1.237 | 1.228 | 4.020 |
| 2 | N EU | Oct – Feb | 0.615 | 0.611 | 1.999 |
| Mar – May | 0.246 | 0.244 | 0.799 |
| Jun – Sep | 0.246 | 0.244 | 0.799 |
| 2 | S EU | Oct – Feb | 0.492 | 0.488 | 1.599 |
| Mar – May | 0.492 | 0.488 | 1.599 |
| Jun – Sep | 0.369 | 0.366 | 1.199 |
| Oilseed rape (winter)  2x60 g a.s./ha  BBCH 31 | 2 | 1 | - | - | 4.947 | 4.911 | 16.078 |
| 2 | N EU | Oct – Feb | 0.734 | 0.729 | 2.387 |
| Mar – May | 0.294 | 0.292 | 0.955 |
| Jun – Sep | 0.294 | 0.292 | 0.955 |
| 2 | S EU | Oct – Feb | 0.588 | 0.583 | 1.909 |
| Mar – May | 0.588 | 0.583 | 1.909 |
| Jun – Sep | 0.441 | 0.437 | 1.432 |
| Oilseed rape (winter)  2x60 g a.s./ha  BBCH 31 (single application) | 1 | 1 | - | - | 4.947 | 4.911 | 16.078 |
| 2 | N EU | Oct – Feb | 0.369 | 0.366 | 1.199 |
| Mar – May | 0.148 | 0.147 | 0.480 |
| Jun – Sep | 0.148 | 0.147 | 0.480 |
| 2 | S EU | Oct – Feb | 0.295 | 0.293 | 0.959 |
| Mar – May | 0.295 | 0.293 | 0.959 |
| Jun – Sep | 0.221 | 0.220 | 0.720 |
| Oilseed rape (winter)  1x60 g a.s./ha  BBCH 11 | 1 | 1 | - | - | 2.474 | 2.456 | 8.039 |
| 2 | N EU | Oct – Feb | 0.738 | 0.733 | 2.398 |
| Mar – May | 0.295 | 0.293 | 0.959 |
| Jun – Sep | 0.295 | 0.293 | 0.959 |
| 2 | S EU | Oct – Feb | 0.590 | 0.586 | 1.919 |
| Mar – May | 0.590 | 0.586 | 1.919 |
| Jun – Sep | 0.443 | 0.440 | 1.439 |
| Oilseed rape (spring)  2x60 g a.s./ha  BBCH 31 | 2 | 1 | - | - | 4.947 | 4.911 | 16.078 |
| 2 | N EU | Oct – Feb | 0.734 | 0.729 | 2.387 |
| Mar – May | 0.294 | 0.292 | 0.955 |
| Jun – Sep | 0.294 | 0.292 | 0.955 |
| 2 | S EU | Oct – Feb | 0.588 | 0.583 | 1.909 |
| Mar – May | 0.588 | 0.583 | 1.909 |
| Jun – Sep | 0.441 | 0.437 | 1.432 |
| Oilseed rape (spring)  2x60 g a.s./ha  BBCH 31 (single application) | 1 | 1 | - | - | 4.947 | 4.911 | 16.078 |
| 2 | N EU | Oct – Feb | 0.369 | 0.366 | 1.199 |
| Mar – May | 0.148 | 0.147 | 0.480 |
| Jun – Sep | 0.148 | 0.147 | 0.480 |
| 2 | S EU | Oct – Feb | 0.295 | 0.293 | 0.959 |
| Mar – May | 0.295 | 0.293 | 0.959 |
| Jun – Sep | 0.221 | 0.220 | 0.720 |
| Sugar beet  2x50 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 4.123 | 4.093 | 13.399 |
| 2 | N EU | Oct – Feb | 1.632 | 1.620 | 5.304 |
| Mar – May | 0.653 | 0.648 | 2.121 |
| Jun – Sep | 0.653 | 0.648 | 2.121 |
| 2 | S EU | Oct – Feb | 1.306 | 1.296 | 4.243 |
| Mar – May | 1.306 | 1.296 | 4.243 |
| Jun – Sep | 0.979 | 0.972 | 3.182 |
| Sugar beet  2x50 g a.s./ha  BBCH 12 (single application) | 1 | 1 | - | - | 4.123 | 4.093 | 13.399 |
| 2 | N EU | Oct – Feb | 0.820 | 0.814 | 2.665 |
| Mar – May | 0.328 | 0.326 | 1.066 |
| Jun – Sep | 0.328 | 0.326 | 1.066 |
| 2 | S EU | Oct – Feb | 0.656 | 0.651 | 2.132 |
| Mar – May | 0.656 | 0.651 | 2.132 |
| Jun – Sep | 0.492 | 0.488 | 1.599 |
| Bulb vegetables (flower bulbs and flower tubers)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 1.896 | 1.883 | 6.163 |
| 2 | N EU | Oct – Feb | 0.849 | 0.843 | 2.758 |
| Mar – May | 0.339 | 0.337 | 1.103 |
| Jun – Sep | 0.339 | 0.337 | 1.103 |
| 2 | S EU | Oct – Feb | 0.679 | 0.674 | 2.206 |
| Mar – May | 0.679 | 0.674 | 2.206 |
| Jun – Sep | 0.509 | 0.506 | 1.655 |
| Bulb vegetables (flower bulbs and flower tubers)  2x34 g a.s./ha  BBCH 20 | 2 | 1 | - | - | 2.803 | 2.783 | 9.111 |
| 2 | N EU | Oct – Feb | 1.040 | 1.033 | 3.381 |
| Mar – May | 0.416 | 0.413 | 1.352 |
| Jun – Sep | 0.416 | 0.413 | 1.352 |
| 2 | S EU | Oct – Feb | 0.832 | 0.826 | 2.705 |
| Mar – May | 0.832 | 0.826 | 2.705 |
| Jun – Sep | 0.624 | 0.620 | 2.029 |
| Bulb vegetables (flower bulbs and flower tubers)  2x34 g a.s./ha  BBCH 20 (single application) | 1 | 1 | - | - | 2.803 | 2.783 | 9.111 |
| 2 | N EU | Oct – Feb | 0.523 | 0.519 | 1.699 |
| Mar – May | 0.209 | 0.208 | 0.680 |
| Jun – Sep | 0.209 | 0.208 | 0.680 |
| 2 | S EU | Oct – Feb | 0.418 | 0.415 | 1.359 |
| Mar – May | 0.418 | 0.415 | 1.359 |
| Jun – Sep | 0.314 | 0.311 | 1.019 |
| ~~Bulb vegetables (flower bulbs and flower tubers)~~  ~~2x34 g a.s./ha~~  ~~BBCH 12~~ | ~~2~~ | ~~1~~ | ~~-~~ | ~~-~~ | ~~2.803~~ | ~~2.783~~ | ~~9.111~~ |
| ~~2~~ | ~~N EU~~ | ~~Oct – Feb~~ | ~~1.248~~ | ~~1.239~~ | ~~4.057~~ |
| ~~Mar – May~~ | ~~0.499~~ | ~~0.496~~ | ~~1.623~~ |
| ~~Jun – Sep~~ | ~~0.499~~ | ~~0.496~~ | ~~1.623~~ |
| ~~2~~ | ~~S EU~~ | ~~Oct – Feb~~ | ~~0.999~~ | ~~0.992~~ | ~~3.246~~ |
| ~~Mar – May~~ | ~~0.999~~ | ~~0.992~~ | ~~3.246~~ |
| ~~Jun – Sep~~ | ~~0.749~~ | ~~0.744~~ | ~~2.434~~ |
| Bulb vegetables (flower bulbs and flower tubers)  1 ~~2~~x34 g a.s./ha  BBCH 12 (single application) | 1 | 1 | - | - | 2.803 | 2.783 | 9.111 |
| 2 | N EU | Oct – Feb | 0.627 | 0.623 | 2.039 |
| Mar – May | 0.251 | 0.249 | 0.815 |
| Jun – Sep | 0.251 | 0.249 | 0.815 |
| 2 | S EU | Oct – Feb | 0.502 | 0.498 | 1.631 |
| Mar – May | 0.502 | 0.498 | 1.631 |
| Jun – Sep | 0.376 | 0.374 | 1.223 |
| Leafy vegetables (floriculture, perennial nursery crops)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 1.896 | 1.883 | 6.163 |
| 2 | N EU | Oct – Feb | 0.707 | 0.702 | 2.298 |
| Mar – May | 0.283 | 0.281 | 0.919 |
| Jun – Sep | 0.283 | 0.281 | 0.919 |
| 2 | S EU | Oct – Feb | 0.566 | 0.562 | 1.839 |
| Mar – May | 0.566 | 0.562 | 1.839 |
| Jun – Sep | 0.424 | 0.421 | 1.379 |
| Leafy vegetables (floriculture, perennial nursery crops)  2x34 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 2.803 | 2.783 | 9.111 |
| 2 | N EU | Oct – Feb | 1.040 | 1.033 | 3.381 |
| Mar – May | 0.416 | 0.413 | 1.352 |
| Jun – Sep | 0.416 | 0.413 | 1.352 |
| 2 | S EU | Oct – Feb | 0.832 | 0.826 | 2.705 |
| Mar – May | 0.832 | 0.826 | 2.705 |
| Jun – Sep | 0.624 | 0.620 | 2.029 |
| Leafy vegetables (floriculture, perennial nursery crops)  2x34 g a.s./ha  BBCH 12 (single application) | 1 | 1 | - | - | 2.803 | 2.783 | 9.111 |
| 2 | N EU | Oct – Feb | 0.523 | 0.519 | 1.699 |
| Mar – May | 0.209 | 0.208 | 0.680 |
| Jun – Sep | 0.209 | 0.208 | 0.680 |
| 2 | S EU | Oct – Feb | 0.418 | 0.415 | 1.359 |
| Mar – May | 0.418 | 0.415 | 1.359 |
| Jun – Sep | 0.314 | 0.311 | 1.019 |
| Pome fruit  (early & late)  (tree nursery)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 1.896 | 1.883 | 6.163 |
| 2 | N EU | Oct – Feb | 0.754 | 0.749 | 2.452 |
| Mar – May | 0.302 | 0.300 | 0.981 |
| Jun – Sep | 0.302 | 0.300 | 0.981 |
| 2 | S EU | Oct – Feb | 0.604 | 0.599 | 1.961 |
| Mar – May | 0.604 | 0.599 | 1.961 |
| Jun – Sep | 0.453 | 0.449 | 1.471 |
| Pome fruit  (early & late)  (tree nursery)  2x34 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 2.803 | 2.783 | 9.111 |
| 2 | N EU | Oct – Feb | 1.110 | 1.102 | 3.606 |
| Mar – May | 0.444 | 0.441 | 1.443 |
| Jun – Sep | 0.444 | 0.441 | 1.443 |
| 2 | S EU | Oct – Feb | 0.888 | 0.881 | 2.885 |
| Mar – May | 0.888 | 0.881 | 2.885 |
| Jun – Sep | 0.666 | 0.661 | 2.164 |
| Pome fruit  (early & late)  (tree nursery)  2x34 g a.s./ha  BBCH 12 (single application) | 1 | 1 | - | - | 2.803 | 2.783 | 9.111 |
| 2 | N EU | Oct – Feb | 0.558 | 0.554 | 1.812 |
| Mar – May | 0.223 | 0.221 | 0.725 |
| Jun – Sep | 0.223 | 0.221 | 0.725 |
| 2 | S EU | Oct – Feb | 0.446 | 0.443 | 1.450 |
| Mar – May | 0.446 | 0.443 | 1.450 |
| Jun – Sep | 0.335 | 0.332 | 1.087 |

N EU / S EU = Northern/ Southern Europe.

a twa-time as required by ecotox.

Table 8.9‑11: FOCUS Step 1-2 PECSW and PECSED for IB-1-1 following single / multiple application(s) of acetamiprid on various crops

| **Application pattern** | **Number of appli­cations** | **Step** a | **Region** | **Season** | **IB-1-1a** | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Maximum PECSW [µg/L]** | **21 d TWA PECSW [µg/L] b** | **Maximum PECSED [µg/L]** |
| Maize 1x60 g a.s./ha BBCH 51 | 1 | 1 | - | - | 6.588 | 6.540 | 0.000 |
| Pome fruit (late)  1x80 g a.s./ha  BBCH 71 | 1 | 1 | - | - | 9.892 | 9.820 | 0.000 |
| Pome fruit (early)  2x25 g a.s./ha  BBCH 62 | 2 | 1 | - | - | 6.902 | 6.852 | 0.000 |
| Pome fruit (late)  2x25 g a.s./ha  BBCH 62 | 2 | 1 | - | - | 6.182 | 6.138 | 0.000 |
| Potato  1x36 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 3.953 | 3.924 | 0.000 |
| Spring cereals  2x35 g a.s./ha  BBCH 40 | 2 | 1 | - | - | 7.686 | 7.630 | 0.000 |
| Spring cereals  2x35 g a.s./ha  1st appl.: BBCH 12  2nd appl.: BBCH 40 | 2 | 1 | - | - | 7.686 | 7.630 | 0.000 |
| Winter cereals  2x36 g a.s./ha  BBCH 40 | 2 | 1 | - | - | 7.905 | 7.848 | 0.000 |
| Winter cereals  1x30 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 3.294 | 3.270 | 0.000 |
| Oilseed rape (winter)  2x60 g a.s./ha  BBCH 31 | 2 | 1 | - | - | 13.175 | 13.080 | 0.000 |
| Oilseed rape (winter)  1x60 g a.s./ha  BBCH 11 | 1 | 1 | - | - | 6.588 | 6.540 | 0.000 |
| Oilseed rape (spring)  2x60 g a.s./ha  BBCH 31 | 2 | 1 | - | - | 13.175 | 13.080 | 0.000 |
| Sugar beet  2x50 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 10.980 | 10.900 | 0.000 |
| Bulb vegetables (flower bulbs and flower tubers)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 5.051 | 5.014 | 0.000 |
| Bulb vegetables (flower bulbs and flower tubers)  2x34 g a.s./ha  BBCH 20 | 2 | 1 | - | - | 7.466 | 7.412 | 0.000 |
| Bulb vegetables (flower bulbs and flower tubers)  2x34 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 7.466 | 7.412 | 0.000 |
| Leafy vegetables (floricul­ture, perennial nursery crops)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 5.051 | 5.014 | 0.000 |
| Leafy vegetables (floricul­ture, perennial nursery crops)  2x34 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 7.466 | 7.412 | 0.000 |
| Pome fruit (early)  (tree nursery)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 6.350 | 6.304 | 0.000 |
| Pome fruit (late)  (tree nursery)  1x46 g a.s./ha  BBCH 12 | 1 | 1 | - | - | 5.688 | 5.647 | 0.000 |
| Pome fruit (early)  (tree nursery)  2x34 g a.s./ha  BBCH 12 | 2 | 1 | - | - | 9.387 | 9.319 | 0.000 |
| Pome fruit (late)  (tree nursery)  2x34 g a.s./ha  BBCH 12  (single application) | 1 | 1 | - | - | 8.408 | 8.347 | 0.000 |

a Calculations for IB‑1‑1 were performed only at STEP 1 as STEP 2 calculations are not required for the ecotox risk assessment.

b twa-time as required by ecotox.

|  |
| --- |
| **zRMS comments:**  Input parameters presented in Tables 8.9-3 and considered by the Applicant in surface water modelling for acetamiprid and its metabolites are in line with EU agreed endpoints reported in EFSA Journal 2016;14(11):4610.,  At Step 3 PUF value of 0 was assumed for acetamiprid and it is in line with current recommendations.  Step 4 simulations were performed according to recommendations of the FOCUS work group on landscape and mitigation factors and were validated by the zRMS for convenience of the concerned Member States that consider FOCUS simulations as Step 4 at the national level.  The surface water exposure was independently validated by the zRMS in additional modelling using the same parameters. Obtained results for acetamiprid and its metabolites were in good agreement with values calculated by the Applicant.  It is noted that in surface water modelling for application to:   * apples (uses No. 4, 6, 9, 11, 13, 15) calculations were performed for higher application rate (1 x 80 g a.s./ha) as it covers intended application rate of 60 g a.s./ha no additional calculations are necessary * winter cereals (use No. 40) calculations were performed for higher application rate (1 x 30 g a.s./ha) as it covers intended application rate of 29 g a.s./ha no additional calculations are necessary. * winter oilseed rape (uses No. 44, 52, 59, 61, 65) calculations were performed for higher application rate (1 x 60 g a.s./ha) as it covers intended application rate of 48 g a.s./ha no additional calculations are necessary. * winter oilseed rape (uses No. 45 and 60) calculations were performed for higher application rate (1 x 60 g a.s./ha) as it covers intended application rate of 40 g a.s./ha no additional calculation are necessary.   Moreover it is noted that for single application to spring cereals (use No. 24, 28 and 31) with application rate of 35 g a.s./ha at BBCH stage of 20-29 no surface water modelling was performed. Instead, the Applicant presented the results of single application to spring cereals at BBCH stage of 12-29. The zRMS performed additional calculations for single application to spring cereals for BBCH stage of 20-29 and obtained the same PECsw and PECsed results as calculated by the Applicant for BBCH stage of 12-29. Therefore, results presented by the Applicant are sufficient and acceptable.  Since for application to flower bulbs and flower tubers (use No. 87) only single application is presented in the GAP table, results of double application to flower bulbs and flower tuber are struck through as not necessary for the risk assessment.  Overall, surface water exposure reported in Tables 8.9-4 to 8.9-11 may be used in the aquatic risk assessment.  Please note that additional surface water modelling may be required by the concerned Member States that do not accept simulations performed according to FOCUS recommendations. |

#### PECSW/SED of ADM.00150.I.2.A / LEAXO

The PECSW of the formulation were calculated based on the FOCUS spray drift values of the SWASH drift calculator for a water body of 30 cm depth and 1 m width (FOCUS ‘ditch’), and the density of the formulation of 1.1361 g/mL. Since formulations quickly disperse after application, only PECSW following a single application is considered.

Table 8.9‑12: PECSW for ADM.00150.I.2.A / LEAXO

| Crop | Application rate | Non-sprayed buffer distance | Nozzle reduction | PECSW (µg/L) |
| --- | --- | --- | --- | --- |
| Corn  (field crops) | 0.3 L/ha = 0.341 kg/ha | 1 | - | 2.190 |
| 50% | 1.095 |
| 75% | 0.547 |
| 90% | 0.219 |
| 3 | - | 0.927 |
| 50% | 0.464 |
| 75% | 0.232 |
| 90% | 0.093 |
| 5 | - | 0.593 |
| 50% | 0.297 |
| 75% | 0.148 |
| 90% | 0.059 |
| 10 | - | 0.315 |
| 50% | 0.157 |
| 75% | 0.079 |
| 90% | 0.031 |
| 15 | - | 0.219 |
| 50% | 0.110 |
| 75% | 0.055 |
| 90% | 0.022 |
| 20 | - | 0.164 |
| 50% | 0.082 |
| 75% | 0.041 |
| 90% | 0.016 |
| Apple  (pome fruit, early) | 0.125 L/ha = 0.142 kg/ha | 3 | - | 12.364 |
| 50% | 6.182 |
| 75% | 3.091 |
| 90% | 1.236 |
| 5 | - | 8.778 |
| 50% | 4.389 |
| 75% | 2.194 |
| 90% | 0.878 |
| 10 | - | 5.390 |
| 50% | 2.695 |
| 75% | 1.348 |
| 90% | 0.539 |
| 15 | - | 2.425 |
| 50% | 1.213 |
| 75% | 0.606 |
| 90% | 0.243 |
| 20 | - | 1.233 |
| 50% | 0.616 |
| 75% | 0.308 |
| 90% | 0.123 |
| Apple (pome fruit, late) | 0.4 L/ha = 0.454 kg/ha | 3 | - | 19.907 |
| 50% | 9.953 |
| 75% | 4.977 |
| 90% | 1.991 |
| 5 | - | 11.380 |
| 50% | 5.690 |
| 75% | 2.845 |
| 90% | 1.138 |
| 10 | - | 5.085 |
| 50% | 2.543 |
| 75% | 1.271 |
| 90% | 0.509 |
| 15 | - | 2.568 |
| 50% | 1.284 |
| 75% | 0.642 |
| 90% | 0.257 |
| 20 | - | 1.569 |
| 50% | 0.785 |
| 75% | 0.392 |
| 90% | 0.157 |
| Potato (field crops) | 0.18 L/ha = 0.204 kg/ha | 1 | - | 1.314 |
| 50% | 0.657 |
| 75% | 0.328 |
| 90% | 0.131 |
| 3 | - | 0.556 |
| 50% | 0.278 |
| 75% | 0.139 |
| 90% | 0.056 |
| 5 | - | 0.356 |
| 50% | 0.178 |
| 75% | 0.089 |
| 90% | 0.036 |
| 10 | - | 0.189 |
| 50% | 0.094 |
| 75% | 0.047 |
| 90% | 0.019 |
| 15 | - | 0.132 |
| 50% | 0.066 |
| 75% | 0.033 |
| 90% | 0.013 |
| 20 | - | 0.098 |
| 50% | 0.049 |
| 75% | 0.025 |
| 90% | 0.010 |
| Spring cereals (field crops) | 0.175 L/ha = 0.199 kg/ha | 1 | - | 1.277 |
| 50% | 0.639 |
| 75% | 0.319 |
| 90% | 0.128 |
| 3 | - | 0.541 |
| 50% | 0.270 |
| 75% | 0.135 |
| 90% | 0.054 |
| 5 | - | 0.346 |
| 50% | 0.173 |
| 75% | 0.087 |
| 90% | 0.035 |
| 10 | - | 0.184 |
| 50% | 0.092 |
| 75% | 0.046 |
| 90% | 0.018 |
| 15 | - | 0.128 |
| 50% | 0.064 |
| 75% | 0.032 |
| 90% | 0.013 |
| 20 | - | 0.095 |
| 50% | 0.048 |
| 75% | 0.024 |
| 90% | 0.010 |
| Winter cereals (field crops) | 0.15 L/ha = 0.170 kg/ha | 1 | - | 1.095 |
| 50% | 0.547 |
| 75% | 0.274 |
| 90% | 0.109 |
| 3 | - | 0.464 |
| 50% | 0.232 |
| 75% | 0.116 |
| 90% | 0.046 |
| 5 | - | 0.297 |
| 50% | 0.148 |
| 75% | 0.074 |
| 90% | 0.030 |
| 10 | - | 0.157 |
| 50% | 0.079 |
| 75% | 0.039 |
| 90% | 0.016 |
| 15 | - | 0.110 |
| 50% | 0.055 |
| 75% | 0.027 |
| 90% | 0.011 |
| 20 | - | 0.082 |
| 50% | 0.041 |
| 75% | 0.020 |
| 90% | 0.008 |
| Winter cereals (field crops) | 0.18 L/ha = 0.204 kg/ha | 1 | - | 1.314 |
| 50% | 0.657 |
| 75% | 0.328 |
| 90% | 0.131 |
| 3 | - | 0.556 |
| 50% | 0.278 |
| 75% | 0.139 |
| 90% | 0.056 |
| 5 | - | 0.356 |
| 50% | 0.178 |
| 75% | 0.089 |
| 90% | 0.036 |
| 10 | - | 0.189 |
| 50% | 0.094 |
| 75% | 0.047 |
| 90% | 0.019 |
| 15 | - | 0.132 |
| 50% | 0.066 |
| 75% | 0.033 |
| 90% | 0.013 |
| 20 | - | 0.098 |
| 50% | 0.049 |
| 75% | 0.025 |
| 90% | 0.010 |
| Winter and spring oilseed rape (field crops) | 0.3 L/ha = 0.341 kg/ha | 1 | - | 2.190 |
| 50% | 1.095 |
| 75% | 0.547 |
| 90% | 0.219 |
| 3 | - | 0.927 |
| 50% | 0.464 |
| 75% | 0.232 |
| 90% | 0.093 |
| 5 | - | 0.593 |
| 50% | 0.297 |
| 75% | 0.148 |
| 90% | 0.059 |
| 10 | - | 0.315 |
| 50% | 0.157 |
| 75% | 0.079 |
| 90% | 0.031 |
| 15 | - | 0.219 |
| 50% | 0.110 |
| 75% | 0.055 |
| 90% | 0.022 |
| 20 | - | 0.164 |
| 50% | 0.082 |
| 75% | 0.041 |
| 90% | 0.016 |
| Sugar beet  (field crops) | 0.25 L/ha = 0.284 kg/ha | 1 | - | 1.825 |
| 50% | 0.912 |
| 75% | 0.456 |
| 90% | 0.182 |
| 3 | - | 0.773 |
| 50% | 0.386 |
| 75% | 0.193 |
| 90% | 0.077 |
| 5 | - | 0.495 |
| 50% | 0.247 |
| 75% | 0.124 |
| 90% | 0.049 |
| 10 | - | 0.262 |
| 50% | 0.131 |
| 75% | 0.066 |
| 90% | 0.026 |
| 15 | - | 0.183 |
| 50% | 0.091 |
| 75% | 0.046 |
| 90% | 0.018 |
| 20 | - | 0.136 |
| 50% | 0.068 |
| 75% | 0.034 |
| 90% | 0.014 |
| Flower bulbs, flower tubers, floriculture and perennial nursery crops (field crops) | 0.17 L/ha = 0.193 kg/ha | 1 | - | 1.241 |
| 50% | 0.620 |
| 75% | 0.310 |
| 90% | 0.124 |
| 3 | - | 0.525 |
| 50% | 0.263 |
| 75% | 0.131 |
| 90% | 0.053 |
| 5 | - | 0.336 |
| 50% | 0.168 |
| 75% | 0.084 |
| 90% | 0.034 |
| 10 | - | 0.178 |
| 50% | 0.089 |
| 75% | 0.045 |
| 90% | 0.018 |
| 15 | - | 0.124 |
| 50% | 0.062 |
| 75% | 0.031 |
| 90% | 0.012 |
| 20 | - | 0.093 |
| 50% | 0.046 |
| 75% | 0.023 |
| 90% | 0.009 |
| Flower bulbs, flower tubers, floriculture and perennial nursery crops (field crops) | 0.23 L/ha = 0.261 kg/ha | 1 | - | 1.679 |
| 50% | 0.839 |
| 75% | 0.420 |
| 90% | 0.168 |
| 3 | - | 0.711 |
| 50% | 0.355 |
| 75% | 0.178 |
| 90% | 0.071 |
| 5 | - | 0.455 |
| 50% | 0.228 |
| 75% | 0.114 |
| 90% | 0.046 |
| 10 | - | 0.241 |
| 50% | 0.121 |
| 75% | 0.060 |
| 90% | 0.024 |
| 15 | - | 0.168 |
| 50% | 0.084 |
| 75% | 0.042 |
| 90% | 0.017 |
| 20 | - | 0.125 |
| 50% | 0.063 |
| 75% | 0.031 |
| 90% | 0.013 |
| Tree nursery crops  (pome fruit, early) | 0.17 L/ha = 0.193 kg/ha | 3 | - | 16.829 |
| 50% | 8.414 |
| 75% | 4.207 |
| 90% | 1.683 |
| 5 | - | 11.947 |
| 50% | 5.974 |
| 75% | 2.987 |
| 90% | 1.195 |
| 10 | - | 7.337 |
| 50% | 3.668 |
| 75% | 1.834 |
| 90% | 0.734 |
| 15 | - | 3.301 |
| 50% | 1.650 |
| 75% | 0.825 |
| 90% | 0.330 |
| 20 | - | 1.678 |
| 50% | 0.839 |
| 75% | 0.419 |
| 90% | 0.168 |
| Tree nursery crops  (pome fruit, early) | 0.23 L/ha = 0.261 kg/ha | 3 | - | 22.768 |
| 50% | 11.384 |
| 75% | 5.692 |
| 90% | 2.277 |
| 5 | - | 16.164 |
| 50% | 8.082 |
| 75% | 4.041 |
| 90% | 1.616 |
| 10 | - | 9.926 |
| 50% | 4.963 |
| 75% | 2.482 |
| 90% | 0.993 |
| 15 | - | 4.466 |
| 50% | 2.233 |
| 75% | 1.116 |
| 90% | 0.447 |
| 20 | - | 2.270 |
| 50% | 1.135 |
| 75% | 0.567 |
| 90% | 0.227 |

a) The application rate of the formulation was calculated based on a density of 1136.1 g/mL and the maximum single application rate for each crop.

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| **zRMS comments:**  The surface water exposure to the formulated product was validated by the zRMS using the Spray Drift Calculator. Obtained results were in agreement with Applicant’s values presented in Table 8.9-12.  Please note, however, that the aquatic risk assessment has been based on exposure calculated for the active compound and for this reason PECsw values for ADM.00150.I.2.A are deemed not necessary. |

## Fate and behaviour in air (KCP 9.3, KCP 9.3.1)

Table 8.10‑1 Summary of atmospheric degradation and behaviour

|  |  |
| --- | --- |
| Compound | Acetamiprid |
| Direct photolysis in air | No data required |
| Quantum yield of direct phototransformation | - |
| Photochemical oxidative degradation in air | Overall rate constant: 76.435 cm3 x molecule-1 x sec-1  DT50: 0.140 days (derived by the Atkinson model (version 1.70) assuming a OH (12 h) concentration of 1.5 x 106 OH/cm3) |
| Volatilisation | From plant surface: < 1% after 24 h  From soil surface: negligible after 24 h  Vapour pressure (Pa): 1.73 x 10-7 (50°C); The vapour pressure is expected to be less than 1 x 10-6 Pa at 25°C.  Henry's Law Constant (Pa m3/mol): < 5.3 x 10-8 (25°C) |
| Metabolites | No data |

The vapour pressure at 20°C of the active substance acetamiprid is < 10‑5 Pa. Hence, the active substance acetamiprid is regarded as non-volatile. Its volatilisation from plant and soil surfaces is regarded to be very low. Additionally, it is rapidly degraded in air (DT50 = 0.14 days). Therefore, exposure of adjacent surface waters and terrestrial ecosystems by the active substance acetamiprid due to volatilization with subsequent deposition does not have to be considered.

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| **zRMS comments:**  Provided above information is in line with EU agreed data reported in EFSA Journal 2016;14(11):4610.  Taking into account the low vapour pressure (<10-5 Pa) and DT50 in air (<2 days), acetamiprid is not expected to be subject to volatilisation and the long- or short-range transport. Taking this into account, contamination of the atmosphere with acetamiprid from the intended uses of ADM.00150.I.2.A is considered to be negligible. |

1. Lists of data considered in support of the evaluation

List of data submitted by the applicant and relied on

| Data point | Author(s) | Year | Title Company Report No.  Source (where different from company) GLP or GEP status Published or not | Vertebrate study  Y/N | Owner |
| --- | --- | --- | --- | --- | --- |
| ~~KCP 9.2.4/01~~\* | ~~Xiao, H.~~ | ~~2023~~ | ~~Acetamiprid - Predicted Environmental Concentrations in Groundwater Following Application to Various Crops in Central Europe~~  ~~RIFCON GmbH, Hirschberg, Germany~~  ~~Unpublished report R2180058-01~~  ~~ADAMA Report Number 000111969~~  ~~Non GLP~~ | ~~N~~ | ~~ADAMA~~ |
| KCP 9.2.4/01\* | Wiedemann, G. | 2024 | Acetamiprid - Predicted Environmental Concentrations in Groundwater Following Application to Various Crops in Central Europe  RIFCON GmbH, Hirschberg, Germany  Unpublished report R2390013-08  ADAMA Report Number 000118540  Non GLP | N | ADAMA |
| KCP 9.2.5/01 | Xiao, H. | 2023 | Acetamiprid - Predicted Environmental Concentrations in Surface Water and Sediment at Steps 1-2 Following Application to Various Crops in Central Europe  RIFCON GmbH, Hirschberg, Germany  Unpublished report R2180058-02  ADAMA Report Number 000111967  Non GLP | N | ADAMA |
| ~~KCP 9.2.5/02~~\* | ~~Xiao, H.~~ | ~~2023~~ | ~~Acetamiprid - Predicted Environmental Concentrations in Surface Water and Sediment at Steps 3-4 Following Application to Various Crops in Central Europe~~  ~~RIFCON GmbH, Hirschberg, Germany~~  ~~Unpublished report R2180058-03~~  ~~ADAMA Report Number 000111968~~  ~~Non GLP~~ | ~~N~~ | ~~ADAMA~~ |
| KCP 9.2.5/02\* | Wiedemann, G. | 2024 | Acetamiprid - Predicted Environmental Concentrations in Surface Water and Sediment at Steps 3-4 Following Application to Various Crops in Central Europe  RIFCON GmbH, Hirschberg, Germany  Unpublished report R2390013-09  ADAMA Report Number 000118539  Non GLP | N | ADAMA |

\* A new report was issued which contains the original calculations (if still applicable) and the new calculations prepared as requested by zRMS.

List of data submitted or referred to by the applicant and relied on, but already evaluated at EU peer review

| Data point | Author(s) | Year | Title Company Report No.  Source (where different from company) GLP or GEP status Published or not | Vertebrate study  Y/N | Owner # |
| --- | --- | --- | --- | --- | --- |
| CA 7.1.1.1/01, 7.1.2.1.1/02, 7.1.2.1.2/03 | Morgenroth, U. | 1997 | 14C-NI-25: Metabolism in One Soil Incubated under Aerobic Conditions  Report/file: RCC Project 373994 Amended final report  Nippon Soda Doc No. RD-09624N  GLP  Not published | N | Nippon Soda |
| CA 7.1.1.1/02 | Feung, C.S. | 1998 | Acetamiprid (NI-25): Metabolism in Collombey Soil  Report/file: RPAC Report N° EC-97-406  Nippon Soda Doc No. RD-09961  Non-GLP  Not published | N | Nippon Soda |
| CA 7.1.1.1/03, 7.1.2.1.1/03, 7.1.2.1.2/04 | Burr, C.M. | 1997 | [14C]-NI-25: Rate of Aerobic Degradation in Three Soil Types at 20°C and One Soil Type at 10°C  Report/file: RPAL Study Report 11256  Nippon Soda Doc No. RD-09962  GLP  Not published | N | Nippon Soda |
| CA 7.1.1.1/04, 7.1.2.1.1/04, 7.1.2.1.2/05 | Simmonds, M.B. | 2002 | [14C]-Acetamiprid: Rate of Degradation in Three Calcareous Soils at 20°C  Aventis CropScience SA., report C019428  Nippon Soda Doc No. RD-00168  GLP  Not published | N | Nippon Soda |
| CA 7.1.1.2/01, 7.1.2.1.3/02 | Burr, C.M., Doble, M.L | 1997 | [14C]-NI-25: Anaerobic Soil Degradation  Report/file: RPAL Study Report 11444  Nippon Soda Doc No. RD-09860  GLP  Not published | N | Nippon Soda |
| CA 7.1.1.3/01 | Mislankar, S.G. | 1998 | Acetamiprid (NI-25) Soil Photolysis  Report/file: RPAC Study N° EC-97-359  Nippon Soda Doc No. RD-09833  GLP  Not published | N | Nippon Soda |
| CA 7.1.2.1.1/01, 7.1.2.1.2/02 | Jarvis, T. & Hilton, M | 2014 | Re-calculation of laboratory aerobic degradation rates of acetamiprid and its metabolites, according to FOCUS (2006, 2011) guidance  Exponent International Ltd., UK  Nippon-Soda Report No.: RD-02913  Non-GLP  Not published | N | Nippon Soda |
| CA 7.1.2.1.2/01 | Jewkes, Y. | 2014 | Rate of Degradation of [14C]-IM-1-5 in Three Soils at 20°C  Nippon-Soda Report No.: RD-02811  GLP  Not published | N | Nippon Soda |
| CA 7.1.2.1.2/06 | Lowden, P., Oddy, A.M., Jones, M.K. | 1997 | NI-25: Rate of Degradation of the Acid Metabolite, [14C]-IC-0 in Three Soils  Report/file: RPAL Study Report 11257  Nippon Soda Doc No. RD-9963  GLP  Not published | N | Nippon Soda |
| CA 7.1.2.1.3/01 | Jarvis, T. & Montesano, V | 2014a | Re-calculation of laboratory anaerobic degradation rate of acetamiprid according to FOCUS (2006, 2011) guidance  Exponent International Ltd., UK  Nippon-Soda Report No.: RD-02910  Non-GLP  Not published | N | Nippon Soda |
| CA 7.1.2.2.1 | Wicks, R.J. | 1999 | Acetamiprid : Field Soil Dissipation Study in Europe  RPA Study 11258, Doc 202052  Nippon Soda Doc No. RD-9997  GLP  Not published | N | Nippon Soda |
| CA 7.1.2.2.1/01 | Jarvis, T. & Hilton, M | 2014 | Re-calculation of acetamiprid field dissipation rates from Wicks (1999) according to FOCUS (2006, 2011) guidance  Exponent International Ltd., UK  Nippon-Soda Report No.: RD-02912  Non-GLP  Not published | N | Nippon Soda |
| CA 7.1.2.2.1/02 | Kellner, T. | 2012a | Soil Dissipation study with Acetamiprid and its Soil Metabolite IM-1-5, in or on Soil in Spain in 2010-2011  Eurofins Agroscience Services  Nippon Soda Co. Ltd Report No.: RD-02404  GLP  Not published | N | Nippon Soda |
| CA 7.1.2.2.1/03 | Kellner, T. | 2012b | Soil Dissipation study with Acetamiprid and its Soil Metabolite IM-1-5, in or on Soil in Southern France in 2010-2011  Eurofins Agroscience Services  Nippon Soda Co. Ltd Report No.: RD-02405  GLP  Not published | N | Nippon Soda |
| CA 7.1.2.2.1/04 | Kellner, T. | 2012c | Soil Dissipation study with Acetamiprid and its Soil Metabolite IM-1-5, in or on Soil in Northern France in 2010-2011  Eurofins Agroscience Services  Nippon Soda Co. Ltd Report No.: RD-02406  GLP  Not published | N | Nippon Soda |
| CA 7.1.2.2.1/05 | Finger, N. | 2013 | Soil Dissipation study with Acetamiprid and its Soil Metabolite IM-1-5, in or on Soil in Hungary in 2011-2012  Eurofins Agroscience Services  Nippon Soda Co. Ltd Report No.: RD-02599  GLP  Not published | N | Nippon Soda |
| CA 7.1.2.2.1/06 | Jarvis, T. & Montesano, V. | 2014b | Calculation of Acetamiprid soil DT50 values from new field dissipation studies in 2010 and 2011 using FOCUS kinetics  Non-GLP  Not published | N | Nippon Soda |
| CA 7.1.3.1.2/01 | Sugiyama, H. | 2010 | Adsorption / desorption study of IM-1-5 on soils  Nippon Soda Co. Ltd. (NSM), Japan  Report No. NSM10-013  Document No. RD-02101  GLP  Not published | N | Nippon Soda |
| CA 7.1.3.1.2/02 | Mamouni, A. | 1997 | Adsorption/Desorption of IM-1-4 on Five Soils  Report/file:RCC Project 383826  Nippon Soda Doc No. RD-09567N  GLP  Not published | N | Nippon Soda |
| CA 7.1.3.1.2/03 | Liu, A.C. | 1997 | 6-Chloronicotinic Acid (Acetamiprid Metabolite)  Soil Adsorption/Desorption Study  Report/file: RPAC Study N° EC-97-370  Nippon Soda Doc No. RD-9973  GLP  Not published | N | Nippon Soda |
| CA 7.1.3.1.2/04 | Mackenzie E. & Price O. | 2003 | [14C]-IM-1-2 : Adsorption to and Desorption from Four Soils and One Sediment  BayerCropScience SA, report C030079  Nippon Soda Doc No. RD-03056  GLP  Not published | N | Nippon Soda |
| CA 7.2.1.2/01 | Hausmann, S., & Class, T. | 1998 | Aqueous Photodegradation of [14C]-Acetamiprid at pH 7 and Determination of Quantum Yield  Report/file: PTRL Europe Study N° P 196 G,  RPA Study N°96-82  Nippon Soda Doc No. RD-00403  GLP  Not published | N | Nippon Soda |
| CA 7.2.2.2/01 | Möndel, M. | 2014 | [Pyridine-2,6-14C]-Acetamiprid: Aerobic Degradation in Natural Water  RLP Agroscience, Germany  Nippon-Soda Report No.: RD- 02800  GLP  Not published | N | Nippon Soda |
| CA 7.2.2.3/01 | Jarvis, T. & Montesano, V. | 2014c | Recalculation of acetamiprid sediment water kinetics according to FOCUS (2006, 2011) guidance  Exponent International Ltd., UK  Nippon-Soda Report No.: RD-02911  Non-GLP  Not published | N | Nippon Soda |
| CA 7.2.2.3/02 | McMillan-Staff, S.L., & Austin, D.J. | 1997 | [14C]-NI-25: Degradation in Two Water/Sediment Systems.  Report/file: RPAL Study 11263  Nippon Soda Doc No. RD-9968  GLP  Not published | N | Nippon Soda |

List of data submitted by the applicant and not relied on

| Data point | Author(s) | Year | Title Company Report No.  Source (where different from company) GLP or GEP status Published or not | Vertebrate study  Y/N | Owner |
| --- | --- | --- | --- | --- | --- |
| There were no data submitted by the Applicant and not relied on. | | | | | |

List of data relied on not submitted by the applicant but necessary for evaluation

| Data point | Author(s) | Year | Title Company Report No.  Source (where different from company) GLP or GEP status Published or not | Vertebrate study  Y/N | Owner |
| --- | --- | --- | --- | --- | --- |
| There were no studies relied on and not submitted by the Applicant. | | | | | |

1. Detailed evaluation of the new Annex II studies

No additional information is provided.

1. Additional information provided by the applicant (e.g. detailed modelling data)

No additional information is provided.