Document Title

Summary of the fate and behaviour in the environment Fluopicolide + Propamocarb-hydrochloride SC 687.5 (62.5+625 g/L)

Data Requirement(s)

Regulation (EC) No 1107/2009 & Regulation (EU) No 284/2013

Document MCP

Section 9: Fate and behaviour in the environment

According to the Guidance Document SANCO/10181/2013 for applicants on preparing dossiers for the approval of a chemical active substance

Date

2020-08-07

Author(s)

[redacted]

Battelle UK Ltd

on behalf of

Bayer AG

Crop Science Division

M-690382-01-2

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Version history

Date [yyyy-mm-dd]	Data points containing amendments or additions[1] and brief description	Document identifier and version number

[1] It is suggested that applicants adopt a similar approach to showing revisions and version history as outlined in SANCO/10180/2013 Chapter 4, 'How to revise an Assessment Report'.

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CP 9 FATE AND BEHAVIOUR IN THE ENVIRONMENT

Fluopicolide (AE C638206) was included in Annex I to Council Directive 91/414/EEC in 2010 (Commission Directive 2010/15/EU, Entry into Force on June 1, 2010). The expiration of approval of fluopicolide is May 31, 2023 (Commission Implementing Regulation (EU) 2017/1527). The Supplementary Dossier contains only data which were not submitted at the time of the Annex I inclusion of fluopicolide under Council Directive 91/414/EEC and which were therefore not evaluated during the first EU review. All data which were already submitted by Bayer AG (former Bayer CropScience) for the Annex I inclusion under Council Directive 91/414/EEC are contained in the Draft Assessment Report (DAR) and its Addenda, and are included in the Baseline Dossier provided by Bayer AG.

The formulation Fluopicolide + Propamocarb-hydrochloride SC 687.5 (62.5+625 g/L), abbreviation FLC+PCH SC 687.5, is a suspension concentrate formulation (SC) containing 62.5 g/L of fluopicolide. This formulation is registered throughout Europe under trade names such as Infinito and Volare. Fluopicolide + Propamocarb-hydrochloride SC 687.5 (62.5+625 g/L) was already a representative formulation of Bayer AG for the Annex I inclusion of fluopicolide under Council Directive 91/414/EEC.

Fluopicolide is a fungicidal active substance developed by Bayer. It is the only active substance in Europe representing a class of chemistry (pyridinylmethyl-benzamides) with a unique mode of action via delocalization of a spectrin-like protein in the Oomycetes fungi.

Fluopicolide has a long track record of safe use in a large number of targeted crops within horticulture, e.g. cucumbers, lettuce and in arable crops (e.g. potato).

Fluopicolide is active against a wide range of Oomycete fungi, the causal agents of devastating plant diseases of economic importance in EU-27 such as potato late blight (*Phytophthora infestans*) or downy mildew diseases in a broad range of crops.

It provides effective, long lasting protection at low application rates against Oomycetes diseases at different stage of development of the fungi, giving flexibility of use to the farmer.

Fluopicolide can be formulated with other active ingredients in different types of formulations to optimise and complete its activity.

The development of resistances of Oomycetes against existing, well-established fungicide groups represent a threat for European farmers by increasing the complexity of their plant protection programs leading to severe economic impacts. With fluopicolide, farmers in EU-27 have access to a modern tool for their integrated crop protection programs, contributing to effective and sustainable management of resistance development and preserving high level of protection against Oomycete diseases.

By reducing the Oomycete damages, applications of fluopicolide + propamocarb SC 687.5 on target crops contribute to the achievement of optimum yield and quality, thus securing sufficient supply of high-quality potatoes and horticultural produces for European consumer destinations and markets abroad, being it fresh or for the processing industry.

CP 9.1 Fate and behaviour in soil

CP 9.1.1 Rate of degradation in soil

For information on the rate of degradation in soil please refer to Document MCA, Section 7.1.2.

CP 9.1.1.1 Laboratory studies

For information on laboratory studies please refer to Document MCA, Section 7.1.2.1.

CP 9.1.1.2 Field studies

For information on field studies please refer to Document MCA, Section 7.1.2.2.

CP 9.1.1.2.1 Soil dissipation studies

For information on field dissipation studies please refer to Document MCA, Section 7.1.2.2.1.

CP 9.1.1.2.2 Soil accumulation studies

For information on field accumulation studies please refer to Document MCA, Section 7.1.2.2.2.

CP 9.1.2 Mobility in the soil

For information on mobility studies please refer to Document MCA, Section 7.1.4.

CP 9.1.2.1 Laboratory studies

For information on laboratory studies please refer to Document MCA, Section 7.1.4.1.

CP 9.1.2.2 Lysimeter studies

For information on lysimeter studies please refer to Document MCA, Section 7.1.4.2.

CP 9.1.2.3 Field leaching studies

For information on field leaching studies please refer to Document MCA, Section 7.1.4.3.

CP 9.1.3 Estimation of concentrations in soil

Predicted environmental concentrations in soil (PEC$_S$)

Data Point:	KCP 9.1.3/01
Report Author:	[redacted]
Report Year:	2003
Report Title:	Predicted environmental concentrations in soil (PECsoil) of AE C638206 and 3 metabolites after use in vine and potatoes in Europe calculated with FOCUS PELMO 3.3.2 Code: AE C638206, AE 0608000, AE C653711, AE C657188
Report No:	C036743
Document No:	M-221323-01-1
Guideline(s) followed in study:	not applicable
Deviations from current test guideline:	not applicable
Previous evaluation:	yes, evaluated and accepted DAR (2005)
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

In the previous submission (DAR, 2005), this modelling report was evaluated and accepted as valid. However the modelling endpoints have been superseded by new studies and new kinetic evaluations. Additionally calculations were performed for crop use on vines which is not one of the current representative uses. Consequently the report is now invalid and a summary of the results is not presented in this dossier. For procedural reasons it has to be included in the current dossier, however it is now superseded by KCP 9.1.3/06, [redacted] 2020, M-686701-01-1.

Data Point:	KCP 9.1.3/02
Report Author:	[redacted]
Report Year:	2004
Report Title:	Predicted environmental concentrations in soil (PECs) of propamocarb-HCl after use in potatoes Code: AE B066752
Report No:	C039643
Document No:	M-227080-01-1
Guideline(s) followed in study:	--
Deviations from current test guideline:	--
Previous evaluation:	yes, evaluated and accepted DAR (2005)
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

In the previous submission (DAR, 2005), this modelling report was evaluated and accepted as valid. However the modelling endpoints have been superseded by new studies and new kinetic evaluations. Consequently the report is now invalid and a summary of the results is not presented in this dossier. For procedural reasons it has to be included in the current dossier, however it is now superseded by KCP 9.1.3/07, [redacted] 2020, M-687161-01-1.

Data Point:	KCP 9.1.3/03
Report Author:	[redacted]
Report Year:	2004
Report Title:	Assessment of the potential accumulation of AE C638206 and its metabolite BAM (AE C653711) in soil based on FOCUS-PELMO Use in potatoes and vines in Europe
Report No:	C036744
Document No:	M-221326-01-1
Guideline(s) followed in study:	--
Deviations from current test guideline:	--
Previous evaluation:	yes, evaluated and accepted DAR (2005)
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

In the previous submission (DAR, 2005), this modelling report was evaluated and accepted as valid. However the modelling endpoints have been superseded by new studies and new kinetic evaluations. Additionally calculations were performed for crop use on vines which is not one of the current representative uses. Consequently the report is now invalid and a summary of the results is not presented in this dossier. For procedural reasons it has to be included in the current dossier, however it is now superseded by KCP 9.1.3/06, [redacted] 2020, M-686701-01-1.

Data Point:	KCP 9.1.3/04
Report Author:	[redacted]
Report Year:	2006
Report Title:	Distribution of fluopicolide (AE C638206) in soil under zero tillage conditions
Report No:	MEF-06/021
Document No:	M-268742-01-1
Guideline(s) followed in study:	not applicable
Deviations from current test guideline:	none
Previous evaluation:	yes, evaluated and accepted Addendum 1 to the DAR (2007)
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

In the previous submission (DAR, 2005), this modelling report was evaluated and accepted as valid. However the modelling endpoints have been superseded by new studies and new kinetic evaluations. Consequently the report is now invalid and a summary of the results is not presented in this dossier. For procedural reasons it has to be included in the current dossier, however it is now superseded by KCP 9.1.3/06, [redacted] 2020, M-686701-01-1.

PEC_{soil} for fluopicolide

Data Point:	KCP 9.1.3/05
Report Author:	[redacted]
Report Year:	2020
Report Title:	Fluopicolide (FLC): Core PECsoil EUR - Modelling core info document for soil risk assessment in Europe
Report No:	VC/19/041L
Document No:	M-686282-01-1
Guideline(s) followed in study:	FOCUS Degradation Kinetics 2006 & 2014
Deviations from current test guideline:	None
Previous evaluation:	No, not previously submitted
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

Executive Summary

This summary summarises the substance data for fluopicolide and its metabolites, as used for the purpose of soil exposure and soil accumulation calculations (non-scenario based Tier 1). The parameters correspond to standard EU requirements.

Modelling reports utilising the core info document should have the substance data presented in the form as shown in the following table.

Table 9.1.3- 1: Compound and scenario input parameters as used for the calculation

Compound	Molar mass (g/mol)	Max occur. in soil (%)	DT_{50} (days)	Molar mass corr. factor (-)
Fluopicolide	383.59	100	457.6	1
M-01 (AE C653711)	190.03	48	344	0.4954
M-02 (AE C657188)	225.56	16.4	4.4	0.588
M-03 (AE 0608000)	399.58	10.6	1000	1.0417

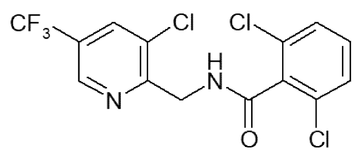
I. Materials and Methods

Calculation of the substance parameters for fluopicolide and its metabolites M-01, M-02 and M-03 is detailed as follows: -

Fluopicolide (AE C638206)

Physico-Chemical Properties

Structural formula



Common name | Fluopicolide (AE C638206)

Chemical name (IUPAC)	2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]-benzamide
Molar mass	383.59 g mol^{-1}

Un-normalised SFO DT_{50} values for fluopicolide have been derived from 12 terrestrial field dissipation studies ([redacted] 2019; M-651636-01-1; [redacted] 2003; M-218667-01-1; [redacted] 2003; M-220477-02-1; [redacted] 2004; M-234424-01-1; [redacted] 2005; M-247945-01-1; [redacted] 2005; M-251338-01-1; [redacted] 2003; M-218672-01-1). A summary of the SFO DT_{50} values derived for fluopicolide is given in Table 9.1.3- 2. A worst-case un-normalised field DT_{50} value of **457.6 days** will be used in modelling.

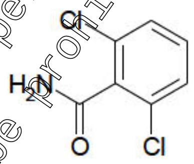
Table 9.1.3- 2: Summary of un-normalised SFO DT_{50} values derived for fluopicolide from terrestrial field dissipation studies ([redacted] 2019; M-651636-01-1; [redacted] (2020; M-685682-01-1)

Soil type	Aerobic field conditions					
	Location (country)	**pH ($CaCl_2$)**	**Depth (cm)**	**St. (χ^2err) (%)**	**Method of calculation**	**DT_{50} (d) un-norm**
Silt loam	Burscheid (Germany)	5.9	0 - 120	13.1	SFO	189.9
Clay	Great Chishill (UK)	7.8	0 - 120	11.9	SFO	457.6
Sandy loam	Lignieres de Touraine (France)	6.9	0 - 120	6.9	SFO	284.4
Clay loam	St.Etienne du Gres (France)	8.1	0 - 120	8.0	SFO	370.6
Clay loam	Albaro di Ronco all'Adige (Italy)	7.7	0 - 120	12.6	SFO	284.6
Sandy clay loam	Vilobi d'Onyar (Spain)	6.9	0 - 120	9.0	SFO	208.3
Loamy sand	Philippsburg (Germany)	6.4	0 - 50	18.8	SFO	288.3
Sandy clay loam	Rödelsee (Germany)	7.4	0 - 30	18.5	SFO	256.9
Sand	Hunlosen (Germany)	4.9	0 - 50	16.5	SFO	290.2
Loamy sand	Valencia (Spain)	7.3	0 - 30	21.5	SFO	177.4
Sandy silt	Appilly (France)	7.1	0 - 30	16.3	SFO	194.4
Sandy silt loam	Senas (France)	7.6	0 - 45	14.3	SFO	178.6
					Worst-case	**457.6**

M-01 (BAM; AE C653711)

Physico-Chemical Properties

Structural formula



Common name	M-01 (BAM; AE C653711)
Chemical name (IUPAC)	2,6-dichlorobenzamide
Molar mass	190.03 g mol^{-1}

Un-normalised SFO DT_{50} values for M-01 (BAM) have been derived from five terrestrial field dissipation studies (M-650733-02-1, [redacted] 2019b). A summary of the SFO DT_{50} values derived for M-01 is given in Table 9.1.3- 3. A worst-case un-normalised field DT_{50} value of **344 days** will be used in the modelling.

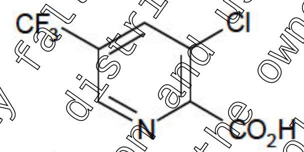
The maximum observed occurrence in soil of M-01 in laboratory studies, expressed as a molar fraction of fluopicolide, was **48%** (M-555570-01-1, [redacted] 2016).

Table 9.1.3- 3: Summary of un-normalised SFO DT_{50} values derived for M-01 (BAM) from terrestrial field dissipation studies (M-650733-02-1, Heinemann and Kasel, 2019b)

Soil type	Aerobic field conditions					
	Location (country)	pH ($CaCl_2$)	Depth (cm)	St. (χ^2err) (%)	Method of calculation	DT_{50} (d) un-norm
Silt loam	Burscheid (Germany)	5.9	0 - 120	17.6	SFO	155
Sandy loam	Lignieres de Touraine (France)	6.9	0 - 120	7.5	SFO	344
Clay loam	St.Etienne du Grès (France)	8.1	0 - 120	10.4	SFO	204
Clay loam	Albarodi Ronco all'Adige (Italy)	7.7	0 - 120	12.0	SFO	156
Sandy clay loam	Vilobi d'Onyar (Spain)	6.9	0 - 120	9.6	SFO	160
					Worst-case	344

M-02 (PCA; AE C657188)

Physico-Chemical Properties
Structural formula



Common name M-02 (PCA; AE C657188)

Chemical name (IUPAC) 3-chloro-5-(trifluoromethyl)pyridine-2-carboxylic acid

Molar mass 225.56 g mol^{-1}

The aerobic degradation and metabolism of M-02 (PCA) in soil was investigated in the laboratory by [redacted] (2003, M-219824-01-1) and [redacted] (2017, M-581364-01-1). A summary of the un-normalised SFO $DegT_{50}$ values derived by [redacted] (2020b, M-685680-01-1) for M-02 is given in Table 9.1.3- 4. A worst-case $DegT_{50}$ value of **4.4 days** will be used in the modelling.

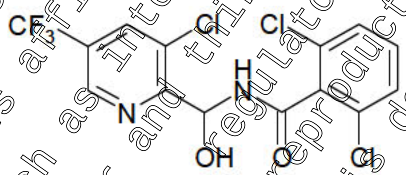
The maximum formation of metabolite M-02 in terrestrial field dissipation studies was **16.4%** (M-220477-02-1, [redacted] 2003).

Table 9.1.3- 4: Summary of un-normalised DegT$_{50}$ values derived for M-02 (PCA) under laboratory conditions (after M-685680-01-1, [redacted] 2020b)

Applied compound	Study	Soil	Model selected	DegT$_{50}$ (d) un-normalised
M-02 (PCA)	M-219824-01-1 [redacted] 2003	Abington	SFO	4.4
		Münster	SFO	3.5
		Sarotti	SFO	4.4
	M-581364-01-1 [redacted] 2017	Dollendorf	SFO	1.1
		[redacted]	SFO	1.1
		[redacted]	SFO	0.7
		[redacted]	SFO	0.7
			Worst-case	4.4

M-03 (AE 0608000)

Physico-Chemical Properties
Structural formula



Common name M-03 (AE 0608000)

Chemical name (IUPAC) 2,6-dichloro-N-{[3-chloro-5-(trifluoromethyl)yridine-2-yl](hydroxy)methyl}benzamide

Molar mass 399.58 g mol^{-1}

The aerobic degradation and metabolism of M-03 in soil was investigated in the laboratory by M-241188-01-1, [redacted] (2003) and M-565219-01-1, [redacted] (2016). In addition, M-03 was observed to form from fluopicolide in three studies (M-201230-02-1, [redacted] 2003; M-241052-01-1, [redacted] 2003; M-655056-01-1, [redacted] 2019). A summary of the un-normalised DegT$_{50}$ values derived by M-685680-01-1, [redacted] (2020b) for M-03 is given in Table 9.1.3- 5. A worst-case DegT$_{50}$ value of **1000 days** will be used in the modelling.

The maximum observed occurrence in soil of M-03 in laboratory studies was **10.6%** (M-201230-02-1, [redacted] 2003).

Table 9.1.3- 5: Summary of un-normalised DegT$_{50}$ values derived for M-03 under laboratory conditions (after M-685680-01-1, [redacted] 2020b)

Applied compound	Study	Soil	Soil pH	Model selected	DegT$_{50}$ (d) un-normalised
Fluopicolide	M-201230-02-1, [redacted] 2003	Münster	4.9	SFO	62.6
	M-241052-01-1, [redacted] 2003	Lamberton	5.9	SFO	49.3
	M-655056-01-1, [redacted] 2019	Pikeville	4.5	SFO	29.3

Applied compound	Study	Soil	Soil pH	Model selected	$DegT_{50}$ (d) un-normalised
M-03	M-241188-01-1, [redacted] 2003	Abington	7.2	SFO	0.1
		Münster	4.9	DFOP	1000[a]
		Pikeville	5.4	DFOP	2.7[b]
		Sarotti	7.1	SFO	0.1
	M-565219-01-1, [redacted] 2016	Brierlow (BL)	5.3	SFO	2.5
		[redacted]	6.0	SFO	0.9
				Worst-case	1000

[a] – Derived from DFOP k_2 parameter, fixed to conservative default value, [b] – Pseudo-SFO DT_{50} value derived as DT_{90}/3.32

II. Results and Discussion

Modelling reports utilising the core info document should have the substance data presented in the form as shown in the following table.

Table 9.1.3- 6: Compound and scenario input parameters as used for the calculation

Compound	Molar mass (g/mol)	Max occur. in soil (%)	DT_{50} (days)	Molar mass corr. factor (-)
Fluopicolide	383.59	100	457.6	1
M-01 (AE C653711)	190.03	48	344	0.4954
M-02 (AE C657188)	225.56	16.4	4.4	0.588
M-03 (AE 0608000)	399.58	10.6	1000	1.0417

III. Conclusion

Soil exposure and soil accumulation calculations should use the input parameters presented in this summary for all calculations.

<u>Assessment and conclusion by applicant:</u>

The core modelling report was conducted according to FOCUS Degradation Kinetics (2006, 2014) and is considered valid to assess trigger and modelling endpoints for fluopicolide and its metabolites in soil under laboratory conditions.

Data Point:	KCP 9.1.3/06
Report Author:	[redacted]
Report Year:	2020
Report Title:	Fluopicolide (FLC) and metabolites: PECsoil EUR - Use in potatoes, lettuce and oil seed rape (winter) in Europe
Report No:	EnSa-20-0435
Document No:	M-686701-01-1
Guideline(s) followed in study:	Guidance Document on Persistence in Soil EU Commission 9188/VI/97 rev.8 2000 and FOCUS 1997
Deviations from current test guideline:	None
Previous evaluation:	No, not previously submitted
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

Executive Summary

The predicted environmental concentrations in soil (PEC_{soil}) of the active substance fluopicolide and its metabolites M-01 (AE C653711), M-02 (AE C657188) and M-03 (AE 0608000) were calculated based on a first tier approach using a Microsoft® Excel spreadsheet. The use of fluopicolide in potatoes and lettuce was assessed according to Good Agricultural Practice (GAP) under Europe cropping conditions. PECsoil values were also calculated for the application of fluopicolide as a seed treatment on oilseed rape but this is not included here as the formulation FLC+PCH SC 687.5 will be used exclusively as foliar treatment on crops.

Calculations assumed an even distribution of the compound in upper 0 - 5 cm soil layer following application and a soil density of 1.5 g/cm3.

An overview of maximum PECsoil values of fluopicolide and its metabolites for all use patterns under consideration is shown in Table 9.1.3- 7.

Table 9.1.3- 7: Maximum PECsoil of fluopicolide and its metabolites for the uses assessed

Use pattern	Fluopicolide (mg/kg)	M-01 (mg/kg)	M-02 (mg/kg)	M-03 (mg/kg)
Potatoes, 4 × 100 g a.s./ha	0.144	0.034	0.007	0.016
Potatoes, 4 × 100 g a.s./ha	0.079	0.019	0.003	0.009
Potatoes, 3 × 100 g a.s./ha	0.125	0.030	0.007	0.014
Potatoes, 3 × 100 g a.s./ha	0.059	0.014	0.003	0.007
Potatoes, 2 × 100 g a.s./ha	0.106	0.025	0.007	0.012
Potatoes, 2 × 100 g a.s./ha	0.040	0.009	0.003	0.004
Potatoes, 1 × 100 g a.s./ha	0.053	0.013	0.005	0.006
Potatoes, 1 × 100 g a.s./ha	0.020	0.005	0.002	0.002
Lettuce, 1 × 100 g a.s./ha	0.100	0.024	0.010	0.011
Lettuce, 2 × 100 g a.s./ha	0.080	0.019	0.005	0.009

The accumulation potential of fluopicolide and its metabolites M-01 (AE C653711), M-02 (AE C657188) and M-03 (AE 0608000) after long term use was also assessed, employing the larger soil depth for the calculation of the background concentration in cases where tillage is relevant. The results are presented in Table 9.1.3- 8. Please note that for technical reasons, accumulation calculation is performed and reported for all substances, even if they do not possess accumulation potential due to short half-life.

Table 9.1.3- 8: PECsoil of fluopicolide and its metabolites for the uses assessed, taking the effect of accumulation into account

Use pattern	PECsoil	Fluopicolide (mg/kg)	M-01 (mg/kg)	M-02 (mg/kg)	M-03 (mg/kg)
Potatoes 4 × 100 g a.s./ha	plateau (20 cm) total	0.049 0.192	0.008 0.042	<0.001 0.007	0.014 0.030
Potatoes 4 × 100 g a.s./ha	plateau (20 cm) total	0.027 0.105	0.004 0.023	<0.001 0.003	0.008 0.016
Potatoes 3 × 100 g a.s./ha	plateau (20 cm) total	0.042 0.167	0.007 0.036	<0.001 0.007	0.012 0.026
Potatoes 3 × 100 g a.s./ha	plateau (20 cm) total	0.020 0.079	0.003 0.017	<0.001 0.003	0.006 0.012
Potatoes 2 × 100 g a.s./ha	plateau (20 cm) total	0.036 0.142	0.006 0.031	<0.001 0.007	0.010 0.022
Potatoes 2 × 100 g a.s./ha	plateau (20 cm) total	0.013 0.053	0.002 0.012	<0.001 0.003	0.004 0.008
Pot atoes 1 × 100 g a.s./ha	plateau (20 cm) total	0.018 0.071	0.003 0.016	<0.001 0.005	0.005 0.011
Potatoes 1 × 100 g a.s./ha	plateau (20 cm) total	0.007 0.027	0.001 0.006	<0.001 0.002	0.002 0.004
Lettuce 1 × 100 g a.s./ha	plateau (20 cm) total	0.034 0.134	0.005 0.029	<0.001 0.010	0.010 0.021
Lettuce 2 × 100 g a.s./ha	plateau (20 cm) total	0.027 0.107	0.004 0.023	<0.001 0.005	0.008 0.016

I. Materials and Methods

The predicted environmental concentrations in soil (PEC_{soil}) of the active substance fluopicolide and its metabolites M-01 (AE C653711), M-02 (AE C657188) and M-03 (AE 0608000) were calculated based on a first tier approach using a Microsoft® Excel spreadsheet. The use of fluopicolide in potatoes and lettuce was assessed according to Good Agricultural Practice (GAP) under Europe cropping conditions. Calculations assumed an even distribution of the compound in upper 0 - 5 cm soil layer following application and a soil density of 1.5 g/cm³.

The use of fluopicolide was assessed according to the Good Agricultural Practice (GAP) as summarised below.

Table 9.1.3- 9: Application data of fluopicolide according to the use pattern in Europe

Individual crop	FOCUS crop	Rate (g a.s./ha)	Interval (days)	Plant interception (%)	BBCH stage (-)	Amount reaching soil (g a.s./ha)
Potatoes	Potatoes	4 × 100	7	60 60 85 85	21 21 40 40	40.000 40.000 15.000 15.000
Potatoes	Potatoes	4 × 100	7	4 × 85	4 × 40	4 × 15.000
Potatoes	Potatoes	3 × 100	7	60 60 85	21 21 40	40.000 40.000 15.000
Potatoes	Potatoes	3 × 100	7	3 × 85	3 × 40	3 × 15.000
Potatoes	Potatoes	2 × 100	7	2 × 60	2 × 21	2 × 40.000

Individual crop	FOCUS crop	Rate (g a.s./ha)	Interval (days)	Plant interception (%)	BBCH stage (-)	Amount reaching soil (g a.s./ha)
Potatoes	Potatoes	2 × 100	7	2 × 85	2 × 40	2 × 15.000
Potatoes	Potatoes	1 × 100	-	60	21	1 × 40.000
Potatoes	Potatoes	1 × 100	-	85	40	1 × 15.000
Lettuce	Cabbage	1 × 100	-	25	13	1 × 75.000
Lettuce	Cabbage	2 × 100	7	2 × 70	2 × 40 - 49	2 × 30.000

The calculations were based on the maximum intended application rate together with the maximum intended number of applications per season and (for multi-application sequences) the minimum interval between the applications. Crop interception was taken into account according to the BBCH growth stage, as recommended by FOCUS (2014).

For metabolite(s), the (pseudo) application rate is calculated based on the maximum amount of the metabolite observed in soil degradation studies, the interception and the molar mass correction are summarised in Table 9.1.3- 10 and Table 9.1.3- 11.

Table 9.1.3- 10: Summary of properties for metabolite rate calculation

Parameter	Unit	Fluopicolide	M-01 (AE C653711)	M-02 (AE C657188)	M-03 (AE 0608000)
Molar mass	(g/mol)	383.59	190.03	225.56	399.58
Corr. factor	(-)	1	0.4954	0.588	1.0417
Max occ. in soil	(%)	100	48	16.4	10.6

Table 9.1.3- 11: Calculation of metabolite application rates (# = application number)

Compound Crop / rate	#	Fluopicolide (g a.s./ha)	M-01 (g/ha)	M-02 (g/ha)	M-03 (g/ha)
Potatoes, 4 × 100 g a.s./ha	1	40	9.51	3.86	4.42
	2	40	9.51	3.86	4.42
	3	15	3.57	1.45	1.66
	4	15	3.57	1.45	1.66
Potatoes, 4 × 100 g a.s./ha	1	15	3.57	1.45	1.66
	2	15	3.57	1.45	1.66
	3	15	3.57	1.45	1.66
	4	15	3.57	1.45	1.66
Potatoes, 3 × 100 g a.s./ha	1	40	9.51	3.86	4.42
	2	40	9.51	3.86	4.42
	3	15	3.57	1.45	1.66
Potatoes, 3 × 100 g a.s./ha	1	15	3.57	1.45	1.66
	2	15	3.57	1.45	1.66
	3	15	3.57	1.45	1.66
Potatoes, 2 × 100 g a.s./ha	1	40	9.51	3.86	4.42
	2	40	9.51	3.86	4.42
Potatoes, 2 × 100 g a.s./ha	1	15	3.57	1.45	1.66
	2	15	3.57	1.45	1.66
Potatoes, 1 × 100 g a.s./ha	1	40	9.51	3.86	4.42
Potatoes, 1 × 100 g a.s./ha	1	15	3.57	1.45	1.66
Lettuce, 1 × 100 g a.s./ha	1	75	17.83	7.23	8.28
Lettuce, 2 × 100 g a.s./ha	1	30	7.13	2.89	3.31
	2	30	7.13	2.89	3.31

Substance parameters used as input in the calculations are based on substance parameters whose derivation is described in detail in the modelling core info document (KCP 9.1.3/05). The modelling parameters used for the calculations are given in Table 9.1.3- 12.

Table 9.1.3- 12: Compound and scenario input parameters as used for the calculation

Compound	Molar mass (g/mol)	Max occur. in soil (%)	DT50 (days)	Molar mass corr. factor (-)
Fluopicolide	383.59	100	457.6	1
M-01 (AE C653711)	190.03	48	344	0.4954
M-02 (AE C657188)	225.56	16.4	4.4	0.588
M-03 (AE 0608000)	399.58	10.6	1000	1.0417
Soil bulk density	1.5 kg/L			
Soil mixing depth	5 cm			
Tillage depth for plateau (if relevant)	20 cm			

The information which mixing depths are employed for individual uses assessed in this report is provided in Table 9.1.3- 13.

Table 9.1.3- 13: Mixing depths used for plateau calculation

Use pattern	Plateau mixing depth
Potatoes	20 cm
Lettuce	20 cm

The details of the calculation can be found below.

Parent compound

1st tier estimation of the initial PEC_{soil} concentration is done using the equation

$$PEC_{soil} = \frac{A \cdot f}{\rho_{soil} \cdot d} \quad (1)$$

with A being the nominal single field application rate, f the fraction reaching soil surface (taking into account crop interception factors according to FOCUS), ρ_{soil} the dry soil bulk density, and d the thickness of the soil layer.

In single application scenarios, the initial PEC_{soil} value is equal to the overall maximum. For multiple (n) applications with constant application rate, crop interception, and application interval, the maximum PEC_{soil} can be written as

$$PEC_{soil,max} = \frac{A \cdot f}{\rho_{soil} \cdot d} \cdot \frac{1 - e^{-k\,n\,\Delta t}}{1 - e^{-k\,\Delta t}} \quad (2)$$

where Δt the application interval and k is the first order degradation rate, calculated from the soil half-life (DT_{50}) as

$$k = \frac{\ln 2}{DT_{50}} \quad (3)$$

For multiple (n) applications with variable application rate, crop interception, or application interval, the PEC_{soil} just after the application (i) can be calculated stepwise as

$$PEC(i)_{soil,max} = \frac{A(i) \cdot f(i)}{\rho_{soil} \cdot d} + PEC(i)_{soil,co} \quad (4)$$

where $PEC_{soil,co}$ represents the residue from the preceding applications at the time of the actual application. For the first application, $PEC_{soil,co}$ is zero, for the following applications it can be written as

$$PEC(i)_{soil,co} = PEC(i-1)_{soil} \cdot e^{-k\,\Delta t(i)} \quad (5)$$

with Δt(i) being the time interval between applications (i-1) and (i). $PEC_{soil,max}$ is then defined as the maximum of the individual PEC_{soil} values.

$$PEC_{soil,max} = max(PEC(i)_{soil,max}) \quad (6)$$

Metabolites

Maximum soil concentration of a metabolite is calculated in a similar manner to that of the parent compound, taking into account the maximum amount of the metabolite observed in soil ($X_{met,max}$) as well as the different molar masses of the parent (M_{par}) and metabolite (M_{met}).

The value of the initial metabolite concentration $PEC_{soil,met}$ is calculated using

$$PEC_{soil,met} = PEC_{soil,par} \cdot X_{met,max} \cdot \frac{M_{met}}{M_{par}} \quad (7)$$

where $PEC_{soil,par}$ is the respective initial parent concentration.

For a single application, the $PEC_{soil,met}$ value is equal to $PEC_{soil,max,met}$. For multiple applications, the maximum metabolite soil concentration has to be calculated using the equations (4) - (6) given in the previous section, with the parent dissipation rate replaced by that of the metabolite, and with maximum metabolite occurrence in soil and different molar masses of the parent and metabolite taken into account.

Concentrations over time

For first-order kinetics with a degradation rate k the declining PEC values at time t after the maximum can be calculated by

$$PEC(t) = PEC_{max} \cdot e^{-k\,t} \quad (8)$$

For a better comparison of exposure and effect data time-weighted average concentrations (TWA) may be useful. For first-order kinetics, the TWA are given by the following formula.

$$TWA(t) = PEC_{max} \cdot \frac{1}{k \cdot t} \cdot (1 - e^{-k\,t}) \quad (9)$$

Accumulation after long term use

Potential accumulation after long term use is also assessed, based on the maximum $PEC_{soil,max}$ concentration of the respective compound, obtained as described before.

In case of a single application (or a multiple application sequence leading to the maximum PEC_{soil} after the last application), it can be shown that the maximum concentration in soil after perpetual use ($PEC_{soil,accu}$) can be expressed as

$$PEC_{soil,accu} = PEC_{soil,max} \cdot \frac{1}{1 - e^{-k \cdot t}} \quad (10)$$

where t is the number of days between two events where $PEC_{soil,max}$ is reached, *i.e.*, 365 days for yearly applications, 730 days for bi-yearly applications, *etc*. This PEC_{soil} value is based on a normal mixing depth. In the case of a multiple application sequence leading to the maximum PEC_{soil} before the last application another approach has to be used.

The concentration in soil after an infinite number of applications and immediately before the application in the last year (the so called plateau concentration $PEC_{plateau}$) can be written as

$$PEC_{plateau} = PEC_{soil,accu} \cdot \frac{d}{d_{accu}} \cdot e^{-k \cdot t} \quad (11)$$

This formula can take the effect of deep soil tillage (or another mixing process) into account by distributing the soil residue amongst larger amounts of soil (larger soil mixing depth d_{accu} of, *e.g.*, 20 cm). In the absence of such mixing process, the factors involving mixing depth cancel out.
The total PEC_{soil} taking the effect of accumulation into account is then the sum of $PEC_{plateau}$ and the maximum PEC_{soil}, as defined previously.

$$PEC_{soil,total} = PEC_{plateau} + PEC_{soil,max} \quad (12)$$

The plateau concentration is driven by the dissipation DT_{50} in soil. The ratio between maximum PEC_{soil} due to actual application and the respective plateau concentration (taking effect of tillage into account here) can be written as

$$\frac{PEC_{plateau}}{PEC_{soil,max}} = \frac{e^{-k \cdot t}}{1 - e^{-k \cdot t}} \cdot \frac{d}{d_{accu}} \quad (13)$$

Inspection of Equation (13) shows that this ratio is independent of the application rate. For a DT_{90} of less than a year, the plateau concentration is marginal (< 3% of actual $PEC_{soil,max}$ for d = 5 cm and d_{accu} = 20 cm). It is thus deemed appropriate to neglect the plateau concentration in such a case.

Complex application patterns

If the maximum PEC_{soil} value in a multiple application sequence is reached before the last application (*e.g.*, due to the effects of varying plant interception), a slightly modified calculation procedure has to be used.

Let us assume that the length of the application sequence (the number of days between the first and last applications) is Δt. The maximum concentration in soil after continual use ($PEC_{soil,accu}$) can be expressed as

$$PEC_{soil,accu} = PEC_{soil,last} \cdot \frac{1}{1 - e^{-k \cdot t^{*}}} \quad (14)$$

where $PEC_{soil,last}$ is the concentration in soil after the last application in the whole sequence and t* is the number of days between two events where $PEC_{soil,last}$ is reached minus the length of the application sequence, *i.e.*, t*=365-Δt days for yearly applications, t*=730-Δt days for bi-yearly applications, *etc.* The same approach (replacing t by t*) is used for all the steps described in the previous section. Other parts of the calculation are not affected.

This provides a conservative assessment since the degradation of the compound in soil is assumed to happen for a shorter time than in reality.

II. Results and Discussion

Detailed results (maximum, short-term and long-term PEC and TWA, and accumulation values) for individual uses are provided in Table 9.1.3- 14 to Table 9.1.3- 53.

Table 9.1.3- 14: PECsoil of fluopicolide, potatoes, 4 × 100 g a.s./ha, 60/60/85/85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.053	-	0.144	-
Short term	24 h	0.053	0.053	0.143	0.144
	2 d	0.053	0.053	0.143	0.143
	4 d	0.053	0.053	0.143	0.143
Long term	7 d	0.053	0.053	0.142	0.143
	14 d	0.052	0.053	0.141	0.142
	21 d	0.052	0.052	0.139	0.141
	28 d	0.051	0.052	0.138	0.141
	42 d	0.050	0.052	0.135	0.139
	50 d	0.049	0.051	0.133	0.138
	100 d	0.046	0.049	0.123	0.133
Plateau concentration (20 cm) after year 5		0.018	-	0.049	-
PECaccumulation (PECact + PECsoil plateau)		0.071	-	0.192	-

Table 9.1.3- 15: PECsoil of M-01, potatoes, 4 × 100 g a.s./ha, 60/60/85/85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.013	-	0.034	-
Short term	24 h	0.013	0.013	0.034	0.034
	2 d	0.013	0.013	0.034	0.034
	4 d	0.013	0.013	0.034	0.034
Long term	7 d	0.013	0.013	0.033	0.034
	14 d	0.012	0.013	0.033	0.033
	21 d	0.012	0.012	0.033	0.033
	28 d	0.012	0.012	0.032	0.033
	42 d	0.012	0.012	0.031	0.033
	50 d	0.011	0.012	0.031	0.032
	100 d	0.010	0.011	0.028	0.031
Plateau concentration (20 cm) after year 4		0.003	-	0.008	-
PECaccumulation (PECact + PECsoil plateau)		0.016	-	0.042	-

Table 9.1.3- 16: PECsoil of M-02, potatoes, 4 × 100 g a.s./ha, 60/60/85/85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.005	-	0.007	-
Short term	24 h	0.004	0.005	0.006	0.006
	2 d	0.004	0.004	0.005	0.006
	4 d	0.003	0.004	0.004	0.005
Long term	7 d	0.002	0.003	0.002	0.004
	14 d	<0.001	0.002	<0.001	0.003
	21 d	<0.001	0.001	<0.001	0.002
	28 d	<0.001	0.001	<0.001	0.002
	42 d	<0.001	< 0.001	<0.001	0.001
	50 d	<0.001	< 0.001	<0.001	< 0.001
	100 d	<0.001	< 0.001	<0.001	< 0.001
Plateau concentration (20 cm) after year 0		<0.001	-	<0.001	-
PECaccumulation (PECact + PECsoil plateau)		0.005	-	0.007	-

Table 9.1.3- 17: PECsoil of M-03, potatoes, 4 × 100 g a.s./ha, 60/60/85/85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.006	-	0.016	-
Short term	24 h	0.006	0.006	0.016	0.016
	2 d	0.006	0.006	0.016	0.016
	4 d	0.006	0.006	0.016	0.016
Long term	7 d	0.006	0.006	0.016	0.016
	14 d	0.006	0.006	0.016	0.016
	21 d	0.006	0.006	0.016	0.016
	28 d	0.006	0.006	0.016	0.016
	42 d	0.006	0.006	0.016	0.016
	50 d	0.006	0.006	0.015	0.016
	100 d	0.005	0.006	0.015	0.015
Plateau concentration (20 cm) after year 10		0.005	-	0.014	-
PECaccumulation (PECact + PECsoil plateau)		0.011	-	0.030	-

Table 9.1.3- 18: PECsoil of fluopicolide, potatoes, 4 × 100 g a.s./ha, 4 × 85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.020	-	0.079	-
Short term	24 h	0.020	0.020	0.079	0.079
	2 d	0.020	0.020	0.079	0.079
	4 d	0.020	0.020	0.078	0.079
Long term	7 d	0.020	0.020	0.078	0.078
	14 d	0.020	0.020	0.077	0.078
	21 d	0.019	0.020	0.076	0.078
	28 d	0.019	0.020	0.075	0.077
	42 d	0.019	0.019	0.074	0.076
	50 d	0.019	0.019	0.073	0.076
	100 d	0.017	0.019	0.068	0.073
Plateau concentration (20 cm) after year 5		0.007	-	0.027	-
PECaccumulation (PECact + PECsoil plateau)		0.027	-	0.105	-

Table 9.1.3- 19: PECsoil of M-01, potatoes, 4 × 100 g a.s./ha, 4 × 85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.005	-	0.019	-
Short term	24 h	0.005	0.005	0.019	0.019
	2 d	0.005	0.005	0.019	0.019
	4 d	0.005	0.005	0.018	0.019
Long term	7 d	0.005	0.005	0.018	0.018
	14 d	0.005	0.005	0.018	0.018
	21 d	0.005	0.005	0.018	0.018
	28 d	0.004	0.005	0.018	0.018
	42 d	0.004	0.005	0.017	0.018
	50 d	0.004	0.005	0.017	0.018
	100 d	0.004	0.004	0.015	0.017
Plateau concentration (20 cm) after year 4		0.001	-	0.004	-
PECaccumulation (PECact + PECsoil plateau)		0.006	-	0.023	-

Table 9.1.3- 20: PECsoil of M-02, potatoes, 4 × 100 g a.s./ha, 4 × 85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.002	-	0.003	-
Short term	24 h	0.002	0.002	0.002	0.003
	2 d	0.001	0.002	0.002	0.002
	4 d	0.001	0.001	0.002	0.002
Long term	7 d	<0.001	0.001	<0.001	0.002
	14 d	<0.001	< 0.001	<0.001	0.001
	21 d	<0.001	<0.001	<0.001	< 0.001
	28 d	<0.001	< 0.001	<0.001	< 0.001
	42 d	<0.001	< 0.001	<0.001	< 0.001
	50 d	<0.001	< 0.001	<0.001	< 0.001
	100 d	<0.001	< 0.001	<0.001	< 0.001
Plateau concentration (20 cm) after year 0		<0.001	-	<0.001	-
PECaccumulation (PECact + PECsoil plateau)		0.002	-	0.003	-

Table 9.1.3- 21: PECsoil of M-03, potatoes, 4 × 100 g a.s./ha, 4 × 85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.002	-	0.009	-
Short term	24 h	0.002	0.002	0.009	0.009
	2 d	0.002	0.002	0.009	0.009
	4 d	0.002	0.002	0.009	0.009
Long term	7 d	0.002	0.002	0.009	0.009
	14 d	0.002	0.002	0.009	0.009
	21 d	0.002	0.002	0.009	0.009
	28 d	0.002	0.002	0.009	0.009
	42 d	0.002	0.002	0.009	0.009
	50 d	0.002	0.002	0.008	0.009
	100 d	0.002	0.002	0.008	0.008
Plateau concentration (20 cm) after year 10		0.002	-	0.008	-
PECaccumulation (PECact + PECsoil plateau)		0.004	-	0.016	-

Table 9.1.3- 22: PECsoil of fluopicolide, potatoes, 3 × 100 g a.s./ha, 60/60/85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.053	-	0.125	-
Short term	24 h	0.053	0.053	0.125	0.125
	2 d	0.053	0.053	0.125	0.125
	4 d	0.053	0.053	0.124	0.125
Long term	7 d	0.053	0.053	0.124	0.124
	14 d	0.052	0.053	0.122	0.124
	21 d	0.052	0.052	0.121	0.123
	28 d	0.051	0.052	0.120	0.122
	42 d	0.050	0.052	0.117	0.121
	50 d	0.049	0.051	0.116	0.120
	100 d	0.046	0.049	0.107	0.116
Plateau concentration (20 cm) after year 5		0.018	-	0.042	-
PECaccumulation (PECact + PECsoil plateau)		0.071	-	0.167	-

Table 9.1.3- 23: PECsoil of M-01, potatoes, 3 × 100 g a.s./ha, 60/60/85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.013	-	0.030	-
Short term	24 h	0.013	0.013	0.030	0.030
	2 d	0.013	0.013	0.029	0.030
	4 d	0.013	0.013	0.029	0.029
Long term	7 d	0.013	0.013	0.029	0.029
	14 d	0.012	0.013	0.029	0.029
	21 d	0.012	0.012	0.028	0.029
	28 d	0.012	0.012	0.028	0.029
	42 d	0.012	0.012	0.027	0.028
	50 d	0.011	0.012	0.027	0.028
	100 d	0.010	0.011	0.024	0.027
Plateau concentration (20 cm) after year 4		0.003	-	0.007	-
PECaccumulation (PECact + PECsoil plateau)		0.016	-	0.036	-

Table 9.1.3- 24: PECsoil of M-02, potatoes, 3 × 100 g a.s./ha, 60/60/85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.005	-	0.007	-
Short term	24 h	0.004	0.005	0.006	0.006
	2 d	0.004	0.004	0.005	0.006
	4 d	0.003	0.004	0.004	0.005
Long term	7 d	0.002	0.003	0.002	0.004
	14 d	<0.001	0.002	<0.001	0.003
	21 d	<0.001	0.001	<0.001	0.002
	28 d	<0.001	0.001	<0.001	0.002
	42 d	<0.001	<0.001	<0.001	0.001
	50 d	<0.001	<0.001	<0.001	<0.001
	100 d	<0.001	< 0.001	<0.001	<0.001
Plateau concentration (20 cm) after year 0		<0.001	-	<0.001	-
PECaccumulation (PECact + PECsoil plateau)		0.005	-	0.007	-

Table 9.1.3- 25: PECsoil of M-03, potatoes, 3 × 100 g a.s./ha, 60/60/85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.006	-	0.014	-
Short term	24 h	0.006	0.006	0.014	0.014
	2 d	0.006	0.006	0.014	0.014
	4 d	0.006	0.006	0.014	0.014
Long term	7 d	0.006	0.006	0.014	0.014
	14 d	0.006	0.006	0.014	0.014
	21 d	0.006	0.006	0.014	0.014
	28 d	0.006	0.006	0.014	0.014
	42 d	0.006	0.006	0.014	0.014
	50 d	0.006	0.006	0.013	0.014
	100 d	0.005	0.006	0.013	0.013
Plateau concentration (20 cm) after year 10		0.005	-	0.012	-
PECaccumulation (PECact + PECsoil plateau)		0.011	-	0.026	-

Table 9.1.3- 26: PECsoil of fluopicolide, potatoes, 3 × 100 g a.s./ha, 3 × 85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.020	-	0.059	-
Short term	24 h	0.020	0.020	0.059	0.059
	2 d	0.020	0.020	0.059	0.059
	4 d	0.020	0.020	0.059	0.059
Long term	7 d	0.020	0.020	0.059	0.059
	14 d	0.020	0.020	0.058	0.059
	21 d	0.019	0.020	0.058	0.058
	28 d	0.019	0.020	0.057	0.058
	42 d	0.019	0.019	0.056	0.058
	50 d	0.019	0.019	0.055	0.057
	100 d	0.017	0.019	0.051	0.055
Plateau concentration (20 cm) after year 5		0.007	-	0.020	-
PECaccumulation (PECact + PECsoil plateau)		0.027	-	0.079	-

Table 9.1.3- 27: PECsoil of M-01, potatoes, 3 × 100 g a.s./ha, 3 × 85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.005	-	0.014	-
Short term	24 h	0.005	0.005	0.014	0.014
	2 d	0.005	0.005	0.014	0.014
	4 d	0.005	0.005	0.014	0.014
Long term	7 d	0.005	0.005	0.014	0.014
	14 d	0.005	0.005	0.014	0.014
	21 d	0.005	0.005	0.013	0.014
	28 d	0.004	0.005	0.013	0.014
	42 d	0.004	0.005	0.013	0.013
	50 d	0.004	0.005	0.013	0.013
	100 d	0.004	0.004	0.012	0.013
Plateau concentration (20 cm) after year 4		0.001	-	0.003	-
PECaccumulation (PECact + PECsoil plateau)		0.006	-	0.017	-

Table 9.1.3- 28: PECsoil of M-02, potatoes, 3 × 100 g a.s./ha, 3 × 85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.002	-	0.003	-
Short term	24 h	0.002	0.002	0.002	0.003
	2 d	0.001	0.002	0.002	0.002
	4 d	0.001	0.001	0.001	0.002
Long term	7 d	<0.001	0.001	<0.001	0.002
	14 d	<0.001	< 0.001	<0.001	0.001
	21 d	<0.001	< 0.001	<0.001	<0.001
	28 d	<0.001	< 0.001	<0.001	< 0.001
	42 d	<0.001	<0.001	<0.001	< 0.001
	50 d	<0.001	< 0.001	<0.001	<0.001
	100 d	<0.001	< 0.001	<0.001	<0.001
Plateau concentration (20 cm) after year 0		<0.001	-	<0.001	-
PECaccumulation (PECact + PECsoil plateau)		0.002	-	0.003	-

Table 9.1.3- 29: PECsoil of M-03, potatoes, 3 × 100 g a.s./ha, 3 × 85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.002	-	0.007	-
Short term	24 h	0.002	0.002	0.007	0.007
	2 d	0.002	0.002	0.007	0.007
	4 d	0.002	0.002	0.007	0.007
Long term	7 d	0.002	0.002	0.007	0.007
	14 d	0.002	0.002	0.007	0.007
	21 d	0.002	0.002	0.006	0.007
	28 d	0.002	0.002	0.006	0.007
	42 d	0.002	0.002	0.006	0.006
	50 d	0.002	0.002	0.006	0.006
	100 d	0.002	0.002	0.006	0.006
Plateau concentration (20 cm) after year 10		0.002	-	0.006	-
PECaccumulation (PECact + PECsoil plateau)		0.004	-	0.012	-

Table 9.1.3- 30: PECsoil of fluopicolide, potatoes, 2 × 100 g a.s./ha, 2 × 60% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.053	-	0.106	-
Short term	24 h	0.053	0.053	0.106	0.106
	2 d	0.053	0.053	0.106	0.106
	4 d	0.053	0.053	0.105	0.106
Long term	7 d	0.053	0.053	0.105	0.106
	14 d	0.052	0.053	0.104	0.105
	21 d	0.052	0.052	0.103	0.104
	28 d	0.051	0.052	0.102	0.104
	42 d	0.050	0.052	0.100	0.103
	50 d	0.049	0.051	0.098	0.102
	100 d	0.046	0.049	0.091	0.098
Plateau concentration (20 cm) after year 5		0.018	-	0.036	-
PECaccumulation (PECact + PECsoil plateau)		0.071	-	0.142	-

Table 9.1.3- 31: PECsoil of M-01, potatoes, 2 × 100 g a.s./ha, 2 × 60% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.013	-	0.025	-
Short term	24 h	0.013	0.013	0.025	0.025
	2 d	0.013	0.013	0.025	0.025
	4 d	0.013	0.013	0.025	0.025
Long term	7 d	0.013	0.013	0.025	0.025
	14 d	0.012	0.013	0.024	0.025
	21 d	0.012	0.012	0.024	0.025
	28 d	0.012	0.012	0.024	0.024
	42 d	0.012	0.012	0.023	0.024
	50 d	0.011	0.012	0.023	0.024
	100 d	0.010	0.011	0.021	0.023
Plateau concentration (20 cm) after year 4		0.003	-	0.006	-
PECaccumulation (PECact + PECsoil plateau)		0.016	-	0.031	-

Table 9.1.3- 32: PECsoil of M-02, potatoes, 2 × 100 g a.s./ha, 2 × 60% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.005	-	0.007	-
Short term	24 h	0.004	0.005	0.006	0.006
	2 d	0.004	0.004	0.005	0.006
	4 d	0.003	0.004	0.004	0.005
Long term	7 d	0.002	0.003	0.002	0.004
	14 d	<0.001	0.002	<0.001	0.003
	21 d	<0.001	0.001	<0.001	0.002
	28 d	<0.001	0.001	<0.001	0.002
	42 d	<0.001	< 0.001	<0.001	0.001
	50 d	<0.001	< 0.001	<0.001	<0.001
	100 d	<0.001	< 0.001	<0.001	<0.001
Plateau concentration (20 cm) after year 0		<0.001	-	<0.001	-
PECaccumulation (PECact + PECsoil plateau)		0.005	-	0.007	-

Table 9.1.3- 33: PECsoil of M-03, potatoes, 2 × 100 g a.s./ha, 2 × 60% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.006	-	0.012	-
Short term	24 h	0.006	0.006	0.012	0.012
	2 d	0.006	0.006	0.012	0.012
	4 d	0.006	0.006	0.012	0.012
Long term	7 d	0.006	0.006	0.012	0.012
	14 d	0.006	0.006	0.012	0.012
	21 d	0.006	0.006	0.012	0.012
	28 d	0.006	0.006	0.012	0.012
	42 d	0.006	0.006	0.011	0.012
	50 d	0.006	0.006	0.011	0.012
	100 d	0.005	0.006	0.011	0.011
Plateau concentration (20 cm) after year 10		0.005	-	0.010	-
PECaccumulation (PECact + PECsoil plateau)		0.011	-	0.022	-

Table 9.1.3- 34: PECsoil of fluopicolide, potatoes, 2 × 100 g a.s./ha, 2 × 85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.020	-	0.040	-
Short term	24 h	0.020	0.020	0.040	0.040
	2 d	0.020	0.020	0.040	0.040
	4 d	0.020	0.020	0.040	0.040
Long term	7 d	0.020	0.020	0.039	0.040
	14 d	0.020	0.020	0.039	0.039
	21 d	0.019	0.020	0.039	0.039
	28 d	0.019	0.020	0.038	0.039
	42 d	0.019	0.019	0.037	0.039
	50 d	0.019	0.019	0.037	0.038
	100 d	0.017	0.019	0.034	0.037
Plateau concentration (20 cm) after year 5		0.007	-	0.013	-
PECaccumulation (PECact + PECsoil plateau)		0.027	-	0.053	-

Table 9.1.3- 35: PECsoil of M-01, potatoes, 2 × 100 g a.s./ha, 2 × 85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.005	-	0.009	-
Short term	24 h	0.005	0.005	0.009	0.009
	2 d	0.005	0.005	0.009	0.009
	4 d	0.005	0.005	0.009	0.009
Long term	7 d	0.005	0.005	0.009	0.009
	14 d	0.005	0.005	0.009	0.009
	21 d	0.005	0.005	0.009	0.009
	28 d	0.004	0.005	0.009	0.009
	42 d	0.004	0.005	0.009	0.009
	50 d	0.004	0.005	0.009	0.009
	100 d	0.004	0.004	0.008	0.009
Plateau concentration (20 cm) after year 4		0.001	-	0.002	-
PECaccumulation (PECact + PECsoil plateau)		0.006	-	0.012	-

Table 9.1.3- 36: PECsoil of M-02, potatoes, 2 × 100 g a.s./ha, 2 × 85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.002	-	0.003	-
Short term	24 h	0.002	0.002	0.002	0.002
	2 d	0.001	0.002	0.002	0.002
	4 d	0.001	0.001	0.001	0.002
Long term	7 d	<0.001	0.001	<0.001	0.002
	14 d	<0.001	< 0.001	<0.001	0.001
	21 d	<0.001	< 0.001	<0.001	< 0.001
	28 d	<0.001	< 0.001	<0.001	< 0.001
	42 d	<0.001	< 0.001	<0.001	< 0.001
	50 d	<0.001	< 0.001	<0.001	< 0.001
	100 d	<0.001	< 0.001	<0.001	< 0.001
Plateau concentration (20 cm) after year 0		<0.001	-	<0.001	-
PECaccumulation (PECact + PECsoil plateau)		0.002	-	0.003	-

Table 9.1.3- 37: PECsoil of M-03, potatoes, 2 × 100 g a.s./ha, 2 × 85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.002	-	0.004	-
Short term	24 h	0.002	0.002	0.004	0.004
	2 d	0.002	0.002	0.004	0.004
	4 d	0.002	0.002	0.004	0.004
Long term	7 d	0.002	0.002	0.004	0.004
	14 d	0.002	0.002	0.004	0.004
	21 d	0.002	0.002	0.004	0.004
	28 d	0.002	0.002	0.004	0.004
	42 d	0.002	0.002	0.004	0.004
	50 d	0.002	0.002	0.004	0.004
	100 d	0.002	0.002	0.004	0.004
Plateau concentration (20 cm) after year 10		0.002	-	0.004	-
PECaccumulation (PECact + PECsoil plateau)		0.004	-	0.008	-

Table 9.1.3- 38: PECsoil of fluopicolide, potatoes, 1 × 100 g a.s./ha, 60% interception

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.053	-	0.053	-
Short term	24 h	0.053	0.053	0.053	0.053
	2 d	0.053	0.053	0.053	0.053
	4 d	0.053	0.053	0.053	0.053
Long term	7 d	0.053	0.053	0.053	0.053
	14 d	0.052	0.053	0.052	0.053
	21 d	0.052	0.052	0.052	0.052
	28 d	0.051	0.052	0.051	0.052
	42 d	0.050	0.052	0.050	0.052
	50 d	0.049	0.051	0.049	0.051
	100 d	0.046	0.049	0.046	0.049
Plateau concentration (20 cm) after year 5		0.018	-	0.018	-
PECaccumulation (PECact + PECsoil plateau)		0.071	-	0.071	-

Table 9.1.3- 39: PECsoil of M-01, potatoes, 1 × 100 g a.s./ha, 60% interception

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.013	-	0.013	-
Short term	24 h	0.013	0.013	0.013	0.013
	2 d	0.013	0.013	0.013	0.013
	4 d	0.013	0.013	0.013	0.013
Long term	7 d	0.013	0.013	0.013	0.013
	14 d	0.012	0.013	0.012	0.013
	21 d	0.012	0.012	0.012	0.012
	28 d	0.012	0.012	0.012	0.012
	42 d	0.012	0.012	0.012	0.012
	50 d	0.011	0.012	0.011	0.012
	100 d	0.010	0.011	0.010	0.011
Plateau concentration (20 cm) after year 4		0.003	-	0.003	-
PECaccumulation (PECact + PECsoil plateau)		0.016	-	0.016	-

Table 9.1.3- 40: PECsoil of M-02, potatoes, 1 × 100 g a.s./ha, 60% interception

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.005	-	0.005	-
Short term	24 h	0.004	0.005	0.004	0.005
	2 d	0.004	0.004	0.004	0.004
	4 d	0.003	0.004	0.003	0.004
Long term	7 d	0.002	0.003	0.002	0.003
	14 d	<0.001	0.002	<0.001	0.002
	21 d	<0.001	0.001	<0.001	0.001
	28 d	<0.001	0.001	<0.001	0.001
	42 d	<0.001	< 0.001	<0.001	< 0.001
	50 d	<0.001	< 0.001	<0.001	< 0.001
	100 d	<0.001	< 0.001	<0.001	< 0.001
Plateau concentration (20 cm) after year 0		<0.001	-	<0.001	-
PECaccumulation (PECact + PECsoil plateau)		0.005	-	0.005	-

Table 9.1.3- 41: PECsoil of M-03, potatoes, 1 × 100 g a.s./ha, 60% interception

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.006	-	0.006	-
Short term	24 h	0.006	0.006	0.006	0.006
	2 d	0.006	0.006	0.006	0.006
	4 d	0.006	0.006	0.006	0.006
Long term	7 d	0.006	0.006	0.006	0.006
	14 d	0.006	0.006	0.006	0.006
	21 d	0.006	0.006	0.006	0.006
	28 d	0.006	0.006	0.006	0.006
	42 d	0.006	0.006	0.006	0.006
	50 d	0.006	0.006	0.006	0.006
	100 d	0.005	0.006	0.005	0.006
Plateau concentration (20 cm) after year 10		0.005	-	0.005	-
PECaccumulation (PECact + PECsoil plateau)		0.011	-	0.011	-

Table 9.1.3- 42: PECsoil of fluopicolide, potatoes, 1 × 100 g a.s./ha, 85% interception

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.020	-	0.020	-
Short term	24 h	0.020	0.020	0.020	0.020
	2 d	0.020	0.020	0.020	0.020
	4 d	0.020	0.020	0.020	0.020
Long term	7 d	0.020	0.020	0.020	0.020
	14 d	0.020	0.020	0.020	0.020
	21 d	0.019	0.020	0.019	0.020
	28 d	0.019	0.020	0.019	0.020
	42 d	0.019	0.019	0.019	0.019
	50 d	0.019	0.019	0.019	0.019
	100 d	0.017	0.019	0.017	0.019
Plateau concentration (20 cm) after year 5		0.007	-	0.007	-
PECaccumulation (PECact + PECsoil plateau)		0.027	-	0.027	-

Table 9.1.3- 43: PECsoil of M-01, potatoes, 1 × 100 g a.s./ha, 85% interception

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.005	-	0.005	-
Short term	24 h	0.005	0.005	0.005	0.005
	2 d	0.005	0.005	0.005	0.005
	4 d	0.005	0.005	0.005	0.005
Long term	7 d	0.005	0.005	0.005	0.005
	14 d	0.005	0.005	0.005	0.005
	21 d	0.005	0.005	0.005	0.005
	28 d	0.004	0.005	0.004	0.005
	42 d	0.004	0.005	0.004	0.005
	50 d	0.004	0.005	0.004	0.005
	100 d	0.004	0.004	0.004	0.004
Plateau concentration (20 cm) after year 4		0.001	-	0.001	-
PECaccumulation (PECact + PECsoil plateau)		0.006	-	0.006	-

Table 9.1.3- 44: PECsoil of M-02, potatoes, 1 × 100 g a.s./ha, 85% interception

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.002	-	0.002	-
Short term	24 h	0.002	0.002	0.002	0.002
	2 d	0.001	0.002	0.001	0.002
	4 d	0.001	0.001	0.001	0.001
Long term	7 d	<0.001	0.001	<0.001	0.001
	14 d	<0.001	< 0.001	<0.001	< 0.001
	21 d	<0.001	< 0.001	<0.001	< 0.001
	28 d	<0.001	< 0.001	<0.001	< 0.001
	42 d	<0.001	< 0.001	<0.001	< 0.001
	50 d	<0.001	< 0.001	<0.001	< 0.001
	100 d	<0.001	< 0.001	<0.001	< 0.001
Plateau concentration (20 cm) after year 0		<0.001	-	<0.001	-
PECaccumulation (PECact + PECsoil plateau)		0.002	-	0.002	-

Table 9.1.3- 45: PECsoil of M-03, potatoes, 1 × 100 g a.s./ha, 85% interception

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.002	-	0.002	-
Short term	24 h	0.002	0.002	0.002	0.002
	2 d	0.002	0.002	0.002	0.002
	4 d	0.002	0.002	0.002	0.002
Long term	7 d	0.002	0.002	0.002	0.002
	14 d	0.002	0.002	0.002	0.002
	21 d	0.002	0.002	0.002	0.002
	28 d	0.002	0.002	0.002	0.002
	42 d	0.002	0.002	0.002	0.002
	50 d	0.002	0.002	0.002	0.002
	100 d	0.002	0.002	0.002	0.002
Plateau concentration (20 cm) after year 10		0.002	-	0.002	-
PECaccumulation (PECact + PECsoil plateau)		0.004	-	0.004	-

Table 9.1.3- 46: PECsoil of fluopicolide, lettuce, 1 × 100 g a.s./ha, 25% interception

PECsoil (mg/kg)		Lettuce			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.100	-	0.100	-
Short term	24 h	0.100	0.100	0.100	0.100
	2 d	0.100	0.100	0.100	0.100
	4 d	0.099	0.100	0.099	0.100
Long term	7 d	0.099	0.099	0.099	0.099
	14 d	0.098	0.099	0.098	0.099
	21 d	0.097	0.098	0.097	0.098
	28 d	0.096	0.098	0.096	0.098
	42 d	0.094	0.097	0.094	0.097
	50 d	0.093	0.096	0.093	0.096
	100 d	0.086	0.093	0.086	0.093
Plateau concentration (20 cm) after year 5		0.034	-	0.034	-
PECaccumulation (PECact + PECsoil plateau)		0.134	-	0.134	-

Table 9.1.3- 47: PECsoil of M-01, lettuce, 1 × 100 g a.s./ha, 25% interception

PECsoil (mg/kg)		Lettuce			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.024	-	0.024	-
Short term	24 h	0.024	0.024	0.024	0.024
	2 d	0.024	0.024	0.024	0.024
	4 d	0.024	0.024	0.024	0.024
Long term	7 d	0.023	0.024	0.023	0.024
	14 d	0.023	0.023	0.023	0.023
	21 d	0.023	0.023	0.023	0.023
	28 d	0.022	0.023	0.022	0.023
	42 d	0.022	0.023	0.022	0.023
	50 d	0.022	0.023	0.022	0.023
	100 d	0.019	0.022	0.019	0.022
Plateau concentration (20 cm) after year 4		0.005	-	0.005	-
PECaccumulation (PECact + PECsoil plateau)		0.029	-	0.029	-

Table 9.1.3- 48: PECsoil of M-02, lettuce, 1 × 100 g a.s./ha, 25% interception

PECsoil (mg/kg)		Lettuce			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.010	-	0.010	-
Short term	24 h	0.008	0.009	0.008	0.009
	2 d	0.007	0.008	0.007	0.008
	4 d	0.005	0.007	0.005	0.007
Long term	7 d	0.003	0.006	0.003	0.006
	14 d	0.001	0.004	0.001	0.004
	21 d	<0.001	0.003	<0.001	0.003
	28 d	<0.001	0.002	<0.001	0.002
	42 d	<0.001	0.001	<0.001	0.001
	50 d	<0.001	0.001	<0.001	0.001
	100 d	<0.001	<0.001	<0.001	<0.001
Plateau concentration (20 cm) after year 0		<0.001	-	<0.001	-
PECaccumulation (PECact + PECsoil plateau)		0.010	-	0.010	-

Table 9.1.3- 49: PECsoil of M-03, lettuce, 1 × 100 g a.s./ha, 25% interception

PECsoil (mg/kg)		Lettuce			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.011	-	0.011	-
Short term	24 h	0.011	0.011	0.011	0.011
	2 d	0.011	0.011	0.011	0.011
	4 d	0.011	0.011	0.011	0.011
Long term	7 d	0.011	0.011	0.011	0.011
	14 d	0.011	0.011	0.011	0.011
	21 d	0.011	0.011	0.011	0.011
	28 d	0.011	0.011	0.011	0.011
	42 d	0.011	0.011	0.011	0.011
	50 d	0.011	0.011	0.011	0.011
	100 d	0.010	0.011	0.010	0.011
Plateau concentration (20 cm) after year 10		0.010	-	0.010	-
PECaccumulation (PECact + PECsoil plateau)		0.021	-	0.021	-

Table 9.1.3- 50: PECsoil of fluopicolide, lettuce, 2 × 100 g a.s./ha, 2 × 70% interception, 7 d app. interval

PECsoil (mg/kg)		Lettuce			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.040	-	0.080	-
Short term	24 h	0.040	0.040	0.079	0.080
	2 d	0.040	0.040	0.079	0.079
	4 d	0.040	0.040	0.079	0.079
Long term	7 d	0.040	0.040	0.079	0.079
	14 d	0.039	0.040	0.078	0.079
	21 d	0.039	0.039	0.077	0.078
	28 d	0.038	0.039	0.076	0.078
	42 d	0.038	0.039	0.075	0.077
	50 d	0.037	0.039	0.074	0.077
	100 d	0.034	0.037	0.068	0.074
Plateau concentration (20 cm) after year 5		0.014	-	0.027	-
PECaccumulation (PECact + PECsoil plateau)		0.054	-	0.107	-

Table 9.1.3- 51: PECsoil of M-01, lettuce, 2 × 100 g a.s./ha, 2 × 70% interception, 7 d app. interval

PECsoil (mg/kg)		Lettuce			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.010	-	0.019	-
Short term	24 h	0.009	0.010	0.019	0.019
	2 d	0.009	0.009	0.019	0.019
	4 d	0.009	0.009	0.019	0.019
Long term	7 d	0.009	0.009	0.019	0.019
	14 d	0.009	0.009	0.018	0.019
	21 d	0.009	0.009	0.018	0.018
	28 d	0.009	0.009	0.018	0.018
	42 d	0.009	0.009	0.017	0.018
	50 d	0.009	0.009	0.017	0.018
	100 d	0.008	0.009	0.015	0.017
Plateau concentration (20 cm) after year 4		0.002	-	0.004	-
PECaccumulation (PECact + PECsoil plateau)		0.012	-	0.023	-

Table 9.1.3- 52: PECsoil of M-02, lettuce, 2 × 100 g a.s./ha, 2 × 70% interception, 7 d app. interval

PECsoil (mg/kg)		Lettuce			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.004	-	0.005	-
Short term	24 h	0.003	0.004	0.004	0.005
	2 d	0.003	0.003	0.004	0.004
	4 d	0.002	0.003	0.003	0.004
Long term	7 d	0.001	0.002	0.002	0.003
	14 d	<0.001	0.002	<0.001	0.002
	21 d	<0.001	0.001	<0.001	0.001
	28 d	<0.001	< 0.001	<0.001	0.001
	42 d	<0.001	< 0.001	<0.001	< 0.001
	50 d	<0.001	< 0.001	<0.001	< 0.001
	100 d	<0.001	< 0.001	<0.001	< 0.001
Plateau concentration (20 cm) after year 0		<0.001	-	<0.001	-
PECaccumulation (PECact + PECsoil plateau)		0.004	-	0.005	-

Table 9.1.3- 53: PECsoil of M-03, lettuce, 2 × 100 g a.s./ha, 2 × 70% interception, 7 d app. interval

PECsoil (mg/kg)		Lettuce			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.004	-	0.009	-
Short term	24 h	0.004	0.004	0.009	0.009
	2 d	0.004	0.004	0.009	0.009
	4 d	0.004	0.004	0.009	0.009
Long term	7 d	0.004	0.004	0.009	0.009
	14 d	0.004	0.004	0.009	0.009
	21 d	0.004	0.004	0.009	0.009
	28 d	0.004	0.004	0.009	0.009
	42 d	0.004	0.004	0.009	0.009
	50 d	0.004	0.004	0.009	0.009
	100 d	0.004	0.004	0.008	0.009
Plateau concentration (20 cm) after year 10		0.004	-	0.008	-
PECaccumulation (PECact + PECsoil plateau)		0.008	-	0.016	-

An overview of maximum PECsoil values of fluopicolide and its metabolites for all use patterns under consideration is shown in Table 9.1.3- 54.

Table 9.1.3- 54: Maximum PECsoil of fluopicolide and its metabolites for the uses assessed

Use pattern	Fluopicolide (mg/kg)	M-01 (mg/kg)	M-02 (mg/kg)	M-03 (mg/kg)
Potatoes, 4 × 100 g a.s./ha	0.144	0.034	0.007	0.016
Potatoes, 4 × 100 g a.s./ha	0.079	0.019	0.003	0.009
Potatoes, 3 × 100 g a.s./ha	0.125	0.030	0.007	0.014
Potatoes, 3 × 100 g a.s./ha	0.059	0.014	0.003	0.007
Potatoes, 2 × 100 g a.s./ha	0.106	0.025	0.007	0.012
Potatoes, 2 × 100 g a.s./ha	0.040	0.009	0.003	0.004
Potatoes, 1 × 100 g a.s./ha	0.053	0.013	0.005	0.006
Potatoes, 1 × 100 g a.s./ha	0.020	0.005	0.002	0.002
Lettuce, 1 × 100 g a.s./ha	0.100	0.024	0.010	0.011
Lettuce, 2 × 100 g a.s./ha	0.080	0.019	0.005	0.009

The accumulation potential of fluopicolide and its metabolites M-01 (AE C653711), M-02 (AE C657188) and M-03 (AE 0608000) after long term use was also assessed employing the larger soil depth for the calculation of the background concentration in cases where tillage is relevant. The results are presented in Table 9.1.3- 55. Please note that for technical reasons, accumulation calculation is performed and reported for all substances, even if they do not possess accumulation potential due to short half-life.

Table 9.1.3- 55: PECsoil of fluopicolide and its metabolites for the uses assessed, taking the effect of accumulation into account

Use pattern	PECsoil	Fluopicolide (mg/kg)	M-01 (mg/kg)	M-02 (mg/kg)	M-03 (mg/kg)
Potatoes 4 × 100 g a.s./ha	plateau (20 cm) total	0.049 0.192	0.008 0.042	<0.001 0.007	0.014 0.030
Potatoes 4 × 100 g a.s./ha	plateau (20 cm) total	0.027 0.105	0.004 0.023	<0.001 0.003	0.008 0.016
Potatoes 3 × 100 g a.s./ha	plateau (20 cm) total	0.042 0.167	0.007 0.036	<0.001 0.007	0.012 0.026
Potatoes 3 × 100 g a.s./ha	plateau (20 cm) total	0.020 0.079	0.003 0.017	<0.001 0.003	0.006 0.012
Potatoes 2 × 100 g a.s./ha	plateau (20 cm) total	0.036 0.142	0.006 0.031	<0.001 0.007	0.010 0.022
Potatoes 2 × 100 g a.s./ha	plateau (20 cm) total	0.013 0.053	0.002 0.012	<0.001 0.003	0.004 0.008
Potatoes 1 × 100 g a.s./ha	plateau (20 cm) total	0.018 0.071	0.003 0.016	<0.001 0.005	0.005 0.011
Potatoes 1 × 100 g a.s./ha	plateau (20 cm) total	0.007 0.027	0.001 0.006	<0.001 0.002	0.002 0.004
Lettuce 1 × 100 g a.s./ha	plateau (20 cm) total	0.034 0.134	0.005 0.029	<0.001 0.010	0.010 0.021
Lettuce 2 × 100 g a.s./ha	plateau (20 cm) total	0.027 0.107	0.004 0.023	<0.001 0.005	0.008 0.016

III. Conclusion

The predicted environmental concentrations in soil (PEC_{soil}) of the active substance fluopicolide and its metabolites M-01 (AE C653711), M-02 (AE C657188) and M-03 (AE 0608000) were calculated for use in potatoes and lettuce.

Assessment and conclusion by applicant:
The risk assessment report was conducted according to FOCUS (2014) and is considered valid to assess predicted environmental concentrations in soil (PEC_{soil}) for fluopicolide and its metabolites in in potatoes and lettuce.

PEC_{soil} for propamocarb-hydrochloride

Data Point:	KCP 9.1.3/07
Report Author:	[redacted]
Report Year:	2020
Report Title:	Propamocarb-hydrochloride (PCH): PECsoil EUR - Use in potatoes and lettuce in Europe
Report No:	EnSa-20-0436
Document No:	M-687161-01-1
Guideline(s) followed in study:	not applicable
Deviations from current test guideline:	None
Previous evaluation:	No, not previously submitted
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

Executive Summary

The predicted environmental concentrations in soil (PEC_{soil}) of the active substance propamocarb-hydrochloride were calculated based on a first tier approach using a Microsoft® Excel spreadsheet. The use of propamocarb-hydrochloride in potatoes and lettuce was assessed according to Good Agricultural Practice (GAP) under European cropping conditions. Calculations assumed an even distribution of the compound in upper 0 - 5 cm soil layer following application and a soil density of 1.5 g/cm3.

Overview of maximum PECsoil values of propamocarb-hydrochloride for all use patterns under consideration is shown in Table 9.1.3- 56.

Table 9.1.3- 56: Maximum PECsoil of propamocarb-hydrochloride for the uses assessed

Use pattern	Propamocarb-hydrochloride (mg/kg)
Potatoes, 4 × 1000 g a.s./ha	1.369
Potatoes, 4 × 1000 g a.s./ha	0.759
Potatoes, 3 × 1000 g a.s./ha	1.211
Potatoes, 3 × 1000 g a.s./ha	0.579
Potatoes, 2 × 1000 g a.s./ha	1.048
Potatoes, 2 × 1000 g a.s./ha	0.393
Potatoes, 1 × 1000 g a.s./ha	0.533
Potatoes, 1 × 1000 g a.s./ha	0.200
Lettuce, 1 × 1000 g a.s./ha	1.000
Lettuce, 2 × 1000 g a.s./ha	0.786

The accumulation potential of propamocarb-hydrochloride after long term use was also assessed, employing the larger soil depth for the calculation of the background concentration in cases where tillage is relevant. The results are presented in Table 9.1.3- 57.

Table 9.1.3- 57: PECsoil of propamocarb-hydrochloride for the uses assessed, taking the effect of accumulation into account

Use pattern	PECsoil	Propamocarb-hydrochloride (mg/kg)
Potatoes 4 × 1000 g a.s./ha	plateau (20 cm) total	0.063 1.432
Potatoes 4 × 1000 g a.s./ha	plateau (20 cm) total	0.035 0.794
Potatoes 3 × 1000 g a.s./ha	plateau (20 cm) total	0.056 1.267
Potatoes 3 × 1000 g a.s./ha	plateau (20 cm) total	0.027 0.606
Potatoes 2 × 1000 g a.s./ha	plateau (20 cm) total	0.048 1.096
Potatoes 2 × 1000 g a.s./ha	plateau (20 cm) total	0.018 0.411
Potatoes 1 × 1000 g a.s./ha	plateau (20 cm) total	0.025 0.558
Potatoes 1 × 1000 g a.s./ha	plateau (20 cm) total	0.009 0.209
Lettuce 1 × 1000 g a.s./ha	plateau (20 cm) total	0.046 1.046
Lettuce 2 × 1000 g a.s./ha	plateau (20 cm) total	0.036 0.822

I. Materials and Methods

The use of propamocarb-hydrochloride in potatoes and lettuce in Europe was assessed according to the Good Agricultural Practice (GAP) as summarised below.

Table 9.1.3- 58: Application data of propamocarb-hydrochloride according to the use pattern in Europe

Individual crop	FOCUS crop	Rate (g a.s./ha)	Interval (days)	Plant interception (%)	BBCH stage (-)	Amount reaching soil (g a.s./ha)
Potatoes	Potatoes	4 × 1000	7	60 60 85 85	21 21 40 40	400.000 400.000 150.000 150.000
Potatoes	Potatoes	4 × 1000	7	4 × 85	4 × 40	4 × 150.000
Potatoes	Potatoes	3 × 1000	7	60 60 85	21 21 40	400.000 400.000 150.000
Potatoes	Potatoes	3 × 1000	7	3 × 85	3 × 40	3 × 150.000
Potatoes	Potatoes	2 × 1000	7	2 × 60	2 × 21	2 × 400.000
Potatoes	Potatoes	2 × 1000	7	2 × 85	2 × 40	2 × 150.000
Potatoes	Potatoes	1 × 1000	-	60	21	1 × 400.000
Potatoes	Potatoes	1 × 1000	-	85	40	1 × 150.000
Lettuce	Cabbage	1 × 1000	-	25	13	1 × 750.000
Lettuce	Cabbage	2 × 1000	7	2 × 70	2 × 40 - 49	2 × 300.000

The calculations were based on the maximum intended application rate together with the maximum intended number of applications per season and (for multi-application sequences) the minimum interval between the applications. Crop interception was taken into account according to the BBCH growth stage, as recommended by FOCUS (2014).

For metabolite(s), the (pseudo) application rate is calculated based on the maximum amount of the metabolite observed in soil degradation studies, the interception and the molar mass correction (Table 9.1.3- 59 and Table 9.1.3- 60).

Table 9.1.3- 59: Summary of properties for metabolite rate calculation

Parameter	Unit	Propamocarb-hydrochloride
Molar mass	(g/mol)	224.7
Corr. factor	(-)	1
Max occ. in soil	(%)	100

Table 9.1.3- 60: Calculation of metabolite application rates (# = application number)

Compound Crop / rate	#	Propamocarb-hydrochloride (g a.s./ha)
Potatoes, 4 × 1000 g a.s./ha	1	400
	2	400
	3	150
	4	150
Potatoes, 4 × 1000 g a.s./ha	1	150
	2	150
	3	150
	4	150
Potatoes, 3 × 1000 g a.s./ha	1	400
	2	400
	3	150
Potatoes, 3 × 1000 g a.s./ha	1	150
	2	150
	3	150
Potatoes, 2 × 1000 g a.s./ha	1	400
	2	400
Potatoes, 2 × 1000 g a.s./ha	1	150
	2	150
Potatoes, 1 × 1000 g a.s./ha	1	400
Potatoes, 1 × 1000 g a.s./ha	1	150
Lettuce, 1 × 1000 g a.s./ha	1	750
Lettuce, 2 × 1000 g a.s./ha	1	300
	2	300

Substance parameters used as input in the calculations are based on substance parameters whose derivation is taken from the EFSA LoEP [EFSA Scientific Report 87, 12 May 2006]. The modelling parameters used for the calculations are given in Table 9.1.3- 61.

Table 9.1.3- 61: Compound and scenario input parameters as used for the calculation

Compound	Molar mass (g/mol)	Max occur. in soil (%)	DT_{50} (days)	Molar mass corr. factor (-)
Propamocarb-hydrochloride	224.7	100	136	1
Soil bulk density	1.5 kg/L			
Soil mixing depth	5 cm			
Tillage depth for plateau (if relevant)	20 cm			

The information which mixing depths are employed for individual uses assessed in this report is provided in Table 9.1.3- 62.

Table 9.1.3- 62: Mixing depths used for plateau calculation

Use pattern	Plateau mixing depth
Potatoes	20 cm
Lettuce	20 cm

The details of the calculation can be found below.

Parent compound

1st tier estimation of the initial PEC_{soil} concentration is done using the equation

$$PEC_{soil} = \frac{A \cdot f}{\rho_{soil} \cdot d} \quad (8)$$

with A being the nominal single field application rate, f the fraction reaching soil surface (taking into account crop interception factors according to FOCUS), ρ_{soil} the dry soil bulk density, and d the thickness of the soil layer.

In single application scenarios, the initial PEC_{soil} value is equal to the overall maximum. For multiple (n) applications with constant application rate, crop interception, and application interval, the maximum PEC_{soil} can be written as

$$PEC_{soil,max} = \frac{A \cdot f}{\rho_{soil} \cdot d} \frac{1 - e^{-k\,n\,\Delta t}}{1 - e^{-k\,\Delta t}} \quad (9)$$

where Δt the application interval and k is the first order degradation rate, calculated from the soil half-life (DT_{50}) as

$$k = \frac{\ln 2}{DT_{50}} \quad (10)$$

For multiple (n) applications with variable application rate, crop interception, or application interval, the PEC_{soil} just after the application (i) can be calculated stepwise as

$$PEC(i)_{soil,max} = \frac{A(i) \cdot f(i)}{\rho_{soil} \cdot d} + PEC(i)_{soil,co} \quad (11)$$

where $PEC_{soil,co}$ represents the residue from the preceding applications at the time of the actual application. For the first application, $PEC_{soil,co}$ is zero, for the following applications it can be written as

$$PEC(i)_{soil,co} = PEC(i-1)_{soil} \cdot e^{-k\,\Delta t(i)} \quad (12)$$

with Δt(i) being the time interval between applications (i-1) and (i). $PEC_{soil,max}$ is then defined as the maximum of the individual PEC_{soil} values.

$$PEC_{soil,max} = \max(PEC(i)_{soil,max}) \quad (13)$$

Metabolites

Maximum soil concentration of a metabolite is calculated in a similar manner to that of the parent compound, taking into account the maximum amount of the metabolite observed in soil ($X_{met,max}$) as well as the different molar masses of the parent (M_{par}) and metabolite (M_{met}).

The value of the initial metabolite concentration $PEC_{soil,met}$ is calculated using

$$PEC_{soil,met} = PEC_{soil.par} \cdot X_{met,max} \cdot \frac{M_{met}}{M_{par}} \qquad (14)$$

where $PEC_{soil,par}$ is the respective initial parent concentration.

For a single application, the $PEC_{soil,met}$ value is equal to $PEC_{soil,max,met}$. For multiple applications, the maximum metabolite soil concentration has to be calculated using the equations (4) - (6) given in the previous section, with the parent dissipation rate replaced by that of the metabolite, and with maximum metabolite occurrence in soil and different molar masses of the parent and metabolite taken into account.

Concentrations over time

For first-order kinetics with a degradation rate k the declining PEC values at time t after the maximum can be calculated by

$$PEC(t) = PEC_{max} \cdot e^{-k\,t} \qquad (8)$$

For a better comparison of exposure and effect data time-weighted average concentrations (TWA) may be useful. For first-order kinetics, the TWA are given by the following formula:

$$TWA(t) = PEC_{max} \cdot \frac{1}{k \cdot t} \cdot (1 - e^{-k\,t}) \qquad (9)$$

Accumulation after long term use

Potential accumulation after long term use is also assessed, based on the maximum $PEC_{soil,max}$ concentration of the respective compound, obtained as described before.

In case of a single application (or a multiple application sequence leading to the maximum PEC_{soil} after the last application), it can be shown that the maximum concentration in soil after perpetual use ($PEC_{soil,accu}$) can be expressed as

$$PEC_{soil,accu} = PEC_{soil,max} \cdot \frac{1}{1 - e^{-k \cdot t}} \qquad (10)$$

where t is the number of days between two events where $PEC_{soil,max}$ is reached, *i.e.*, 365 days for yearly applications, 730 days for bi-yearly applications, *etc.* This PEC_{soil} value is based on a normal mixing depth. In the case of a multiple application sequence leading to the maximum PEC_{soil} before the last application another approach has to be used.

The concentration in soil after an infinite number of applications and immediately before the application in the last year (the so called plateau concentration $PEC_{plateau}$) can be written as

$$PEC_{plateau} = PEC_{soil,accu} \cdot \frac{d}{d_{accu}} \cdot e^{-k \cdot t} \qquad (11)$$

This formula can take the effect of deep soil tillage (or another mixing process) into account by distributing the soil residue amongst larger amounts of soil (larger soil mixing depth d_{accu} of, *e.g.*, 20 cm). In the absence of such mixing process, the factors involving mixing depth cancel out.

The total PEC_{soil} taking the effect of accumulation into account is then the sum of $PEC_{plateau}$ and the maximum PEC_{soil}, as defined previously.

$$\mathrm{PEC_{soil,total}} = \mathrm{PEC_{plateau}} + \mathrm{PEC_{soil,max}} \quad (12)$$

The plateau concentration is driven by the dissipation DT_{50} in soil. The ratio between maximum PEC_{soil} due to actual application and the respective plateau concentration (taking effect of tillage into account here) can be written as

$$\frac{\mathrm{PEC_{plateau}}}{\mathrm{PEC_{soil,max}}} = \frac{e^{-k\cdot t}}{1 - e^{-k\cdot t}} \cdot \frac{d}{d_{accu}} \quad (13)$$

Inspection of Equation (13) shows that this ratio is independent of the application rate. For a DT_{90} of less than a year, the plateau concentration is marginal (< 3% of actual $PEC_{soil,max}$ for d = 5 cm and d_{accu} = 20 cm). It is thus deemed appropriate to neglect the plateau concentration in such a case.

Complex application patterns

If the maximum PEC_{soil} value in a multiple application sequence is reached before the last application (*e.g.*, due to the effects of varying plant interception), a slightly modified calculation procedure has to be used.
Let us assume that the length of the application sequence (the number of days between the first and last applications) is Δt. The maximum concentration in soil after continual use ($PEC_{soil,accu}$) can be expressed as

$$\mathrm{PEC_{soil,accu}} = \mathrm{PEC_{soil,last}} \cdot \frac{1}{1 - e^{-k\cdot t^*}} \quad (14)$$

where $PEC_{soil,last}$ is the concentration in soil after the last application in the whole sequence and t* is the number of days between two events where $PEC_{soil,last}$ is reached minus the length of the application sequence, *i.e.*, t*=365-Δt days for yearly applications, t*=730-Δt days for bi-yearly applications, *etc.* The same approach (replacing t by t*) is used for all the steps described in the previous section. Other parts of the calculation are not affected.

This provides a conservative assessment since the degradation of the compound in soil is assumed to happen for a shorter time than in reality.

II. Results and Discussion

Detailed results (maximum, short-term and long-term PEC and TWA, and accumulation values) for individual uses are provided in Table 9.1.3- 63 to Table 9.1.3- 72.

Table 9.1.3- 63: PECsoil of propamocarb-hydrochloride in potatoes, 4 × 1000 g a.s./ha, 60/60/85/85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.533	-	1.369	-
Short term	24 h	0.531	0.532	1.362	1.365
	2 d	0.528	0.531	1.355	1.362
	4 d	0.523	0.528	1.341	1.355
Long term	7 d	0.515	0.524	1.321	1.345
	14 d	0.497	0.515	1.275	1.321
	21 d	0.479	0.506	1.230	1.298
	28 d	0.462	0.497	1.187	1.276
	42 d	0.431	0.480	1.105	1.232
	50 d	0.413	0.471	1.061	1.208
	100 d	0.320	0.418	0.822	1.072
Plateau concentration (20 cm) after year 2		0.025	-	0.063	-
PECaccumulation (PECact + PECsoil plateau)		0.558	-	1.432	-

Table 9.1.3- 64: PECsoil of propamocarb-hydrochloride, potatoes, 4 × 1000 g a.s./ha, 4 × 85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.200	-	0.759	-
Short term	24 h	0.199	0.199	0.755	0.757
	2 d	0.198	0.199	0.751	0.755
	4 d	0.196	0.198	0.744	0.751
Long term	7 d	0.193	0.196	0.732	0.746
	14 d	0.186	0.193	0.707	0.732
	21 d	0.180	0.190	0.682	0.720
	28 d	0.173	0.186	0.658	0.707
	42 d	0.161	0.180	0.613	0.683
	50 d	0.155	0.177	0.588	0.670
	100 d	0.120	0.157	0.456	0.595
Plateau concentration (20 cm) after year 2		0.009	-	0.035	-
PECaccumulation (PECact + PECsoil plateau)		0.209	-	0.794	-

Table 9.1.3- 65: PECsoil of propamocarb-hydrochloride, potatoes, 3 × 1000 g a.s./ha, 60/60/85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.533	-	1.211	-
Short term	24 h	0.531	0.532	1.205	1.208
	2 d	0.528	0.531	1.199	1.205
	4 d	0.523	0.528	1.187	1.199
Long term	7 d	0.515	0.524	1.169	1.190
	14 d	0.497	0.515	1.128	1.169
	21 d	0.479	0.506	1.088	1.149
	28 d	0.462	0.497	1.050	1.129
	42 d	0.431	0.480	0.978	1.090
	50 d	0.413	0.471	0.939	1.069
	100 d	0.320	0.418	0.728	0.949
Plateau concentration (20 cm) after year 2		0.025	-	0.056	-
PECaccumulation (PECact + PECsoil plateau)		0.558	-	1.267	-

Table 9.1.3- 66: PECsoil of propamocarb-hydrochloride, potatoes, 3 × 1000 g a.s./ha, 3 × 85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.200	-	0.579	-
Short term	24 h	0.199	0.199	0.576	0.578
	2 d	0.198	0.199	0.573	0.576
	4 d	0.196	0.198	0.568	0.573
Long term	7 d	0.193	0.196	0.559	0.569
	14 d	0.186	0.193	0.539	0.559
	21 d	0.180	0.190	0.520	0.549
	28 d	0.173	0.186	0.502	0.540
	42 d	0.161	0.180	0.468	0.521
	50 d	0.155	0.177	0.449	0.511
	100 d	0.120	0.157	0.348	0.454
Plateau concentration (20 cm) after year 2		0.009	-	0.027	-
PECaccumulation (PECact + PECsoil plateau)		0.209	-	0.606	-

Table 9.1.3- 67: PECsoil of propamocarb-hydrochloride, potatoes, 2 × 1000 g a.s./ha, 2 × 60% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.533	-	1.048	-
Short term	24 h	0.531	0.532	1.043	1.045
	2 d	0.528	0.531	1.037	1.043
	4 d	0.523	0.528	1.027	1.037
Long term	7 d	0.515	0.524	1.011	1.030
	14 d	0.497	0.515	0.976	1.011
	21 d	0.479	0.506	0.942	0.994
	28 d	0.462	0.497	0.909	0.977
	42 d	0.431	0.480	0.846	0.943
	50 d	0.413	0.471	0.812	0.925
	100 d	0.320	0.418	0.630	0.821
Plateau concentration (20 cm) after year 2		0.025	-	0.048	-
PECaccumulation (PECact + PECsoil plateau)		0.558	-	1.096	-

Table 9.1.3- 68: PECsoil of propamocarb-hydrochloride, potatoes, 2× 1000 g a.s./ha, 2 × 85% interception, 7 d app. interval

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.200	-	0.393	-
Short term	24 h	0.199	0.199	0.391	0.392
	2 d	0.198	0.199	0.389	0.391
	4 d	0.196	0.198	0.385	0.389
Long term	7 d	0.193	0.196	0.379	0.386
	14 d	0.186	0.193	0.366	0.379
	21 d	0.180	0.190	0.353	0.373
	28 d	0.173	0.186	0.341	0.366
	42 d	0.161	0.180	0.317	0.354
	50 d	0.155	0.177	0.305	0.347
	100 d	0.120	0.157	0.236	0.308
Plateau concentration (20 cm) after year 2		0.009	-	0.018	-
PECaccumulation (PECact + PECsoil plateau)		0.209	-	0.411	-

Table 9.1.3- 69: PECsoil of propamocarb-hydrochloride, potatoes, 1 × 1000 g a.s./ha, 60% interception

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.533	-	0.533	-
Short term	24 h	0.531	0.532	0.531	0.532
	2 d	0.528	0.531	0.528	0.531
	4 d	0.523	0.528	0.523	0.528
Long term	7 d	0.515	0.524	0.515	0.524
	14 d	0.497	0.515	0.497	0.515
	21 d	0.479	0.506	0.479	0.506
	28 d	0.462	0.497	0.462	0.497
	42 d	0.431	0.480	0.431	0.480
	50 d	0.413	0.471	0.413	0.471
	100 d	0.320	0.418	0.320	0.418
Plateau concentration (20 cm) after year 2		0.025	-	0.025	-
PECaccumulation (PECact + PECsoil plateau)		0.558	-	0.558	-

Table 9.1.3- 70: PECsoil of propamocarb-hydrochloride, potatoes, 1 × 1000 g a.s./ha, 85% interception

PECsoil (mg/kg)		Potatoes			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.200	-	0.200	-
Short term	24 h	0.199	0.199	0.199	0.199
	2 d	0.198	0.199	0.198	0.199
	4 d	0.196	0.198	0.196	0.198
Long term	7 d	0.193	0.196	0.193	0.196
	14 d	0.186	0.193	0.186	0.193
	21 d	0.180	0.190	0.180	0.190
	28 d	0.173	0.186	0.173	0.186
	42 d	0.161	0.180	0.161	0.180
	50 d	0.155	0.177	0.155	0.177
	100 d	0.120	0.157	0.120	0.157
Plateau concentration (20 cm) after year 2		0.009	-	0.009	-
PECaccumulation (PECact + PECsoil plateau)		0.209	-	0.209	-

Table 9.1.3- 71: PECsoil of propamocarb-hydrochloride, lettuce, 1 × 1000 g a.s./ha, 25% interception

PECsoil (mg/kg)		Lettuce			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		1.000	-	1.000	-
Short term	24 h	0.995	0.997	0.995	0.997
	2 d	0.990	0.995	0.990	0.995
	4 d	0.980	0.990	0.980	0.990
Long term	7 d	0.965	0.982	0.965	0.982
	14 d	0.931	0.965	0.931	0.965
	21 d	0.898	0.948	0.898	0.948
	28 d	0.867	0.932	0.867	0.932
	42 d	0.807	0.900	0.807	0.900
	50 d	0.775	0.883	0.775	0.883
	100 d	0.601	0.783	0.601	0.783
Plateau concentration (20 cm) after year 2		0.046	-	0.046	-
PECaccumulation (PECact + PECsoil plateau)		1.046	-	1.046	-

Table 9.1.3- 72: PECsoil of propamocarb-hydrochloride, lettuce, 2 × 1000 g a.s./ha, 2 × 70% interception, 7 d app. interval

PECsoil (mg/kg)		Lettuce			
		Single application		Multiple applications	
		Actual	TWA	Actual	TWA
Initial		0.400	-	0.786	-
Short term	24 h	0.398	0.399	0.782	0.784
	2 d	0.396	0.398	0.778	0.782
	4 d	0.392	0.396	0.770	0.778
Long term	7 d	0.386	0.393	0.758	0.772
	14 d	0.372	0.386	0.732	0.759
	21 d	0.359	0.379	0.706	0.745
	28 d	0.347	0.373	0.681	0.732
	42 d	0.323	0.360	0.635	0.708
	50 d	0.310	0.353	0.609	0.694
	100 d	0.240	0.313	0.472	0.616
Plateau concentration (20 cm) after year 2		0.018	-	0.036	-
PECaccumulation (PECact + PECsoil plateau)		0.418	-	0.822	-

Overview of maximum PECsoil values of propamocarb-hydrochloride for all use patterns under consideration is shown in Table 9.1.3- 73.

Table 9.1.3- 73: Maximum PECsoil of propamocarb-hydrochloride for the uses assessed

Use pattern	Propamocarb-hydrochloride (mg/kg)
Potatoes, 4 × 1000 g a.s./ha	1.369
Potatoes, 4 × 1000 g a.s./ha	0.759
Potatoes, 3 × 1000 g a.s./ha	1.211
Potatoes, 3 × 1000 g a.s./ha	0.579
Potatoes, 2 × 1000 g a.s./ha	1.048
Potatoes, 2 × 1000 g a.s./ha	0.393
Potatoes, 1 × 1000 g a.s./ha	0.533
Potatoes, 1 × 1000 g a.s./ha	0.200
Lettuce, 1 × 1000 g a.s./ha	1.000
Lettuce, 2 × 1000 g a.s./ha	0.786

The accumulation potential of propamocarb-hydrochloride after long term use was also assessed, employing the larger soil depth for the calculation of the background concentration in cases where tillage is relevant. The results are presented in Table 9.1.3- 74.

Table 9.1.3- 74: PECsoil of propamocarb-hydrochloride for the uses assessed, taking the effect of accumulation into account

Use pattern	PECsoil	Propamocarb-hydrochloride (mg/kg)
Potatoes 4 × 1000 g a.s./ha	plateau (20 cm) total	0.063 1.432
Potatoes 4 × 1000 g a.s./ha	plateau (20 cm) total	0.035 0.794
Potatoes 3 × 1000 g a.s./ha	plateau (20 cm) total	0.056 1.267
Potatoes 3 × 1000 g a.s./ha	plateau (20 cm) total	0.027 0.606
Potatoes 2 × 1000 g a.s./ha	plateau (20 cm) total	0.048 1.096
Potatoes 2 × 1000 g a.s./ha	plateau (20 cm) total	0.018 0.411
Potatoes 1 × 1000 g a.s./ha	plateau (20 cm) total	0.025 0.558
Potatoes 1 × 1000 g a.s./ha	plateau (20 cm) total	0.009 0.209
Lettuce 1 × 1000 g a.s./ha	plateau (20 cm) total	0.046 1.046
Lettuce 2 × 1000 g a.s./ha	plateau (20 cm) total	0.036 0.822

III. Conclusion

The predicted environmental concentrations in soil (PEC_{soil}) of the active substance propamocarb-hydrochloride were calculated for use in potatoes and lettuce.

Assessment and conclusion by applicant:

The risk assessment report was conducted according to FOCUS (2014) and is considered valid to assess predicted environmental concentrations in soil (PEC_{soil}) for propamocarb-hydrochloride in potatoes and lettuce.

CP 9.2 Fate and behaviour in water and sediment

CP 9.2.1 Aerobic mineralisation in surface water

For information on aerobic mineralisation in surface water studies, please refer to Document MCA, Section 7.2.2.2.

CP 9.2.2 Water/sediment study

For information on water/sediment studies please refer to Document MCA, Section 7.2.2.3.

CP 9.2.3 Irradiated water/sediment study

For information on irradiated water/sediment studies please refer to Document MCA, Section 7.2.2.4.

CP 9.2.4 Estimation of concentrations in groundwater

CP 9.2.4.1 Calculation of concentrations in groundwater

Predicted environmental concentrations in groundwater (PEC_{GW})

Data Point:	KCP 9.2.4.1/01
Report Author:	[redacted]
Report Year:	2003
Report Title:	Leaching risk assessment for AE C638206 and 9 of its metabolites for the use in vine and potatoes in Europe calculated with FOCUS PELMO 3.3.2 Code: AE C638206, AE 0608000, AE C653711, AE C657188, AE 1344122, AE 1344123, AE 1388273
Report No:	C036742
Document No:	M-221319-01-1
Guideline(s) followed in study:	--
Deviations from current test guideline:	--
Previous evaluation:	yes, evaluated and accepted DAR (2005)
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

In the previous submission (DAR, 2005), this modelling report was evaluated and in part, accepted as valid. However the modelling endpoints have been superseded by new studies and new kinetic evaluations. Additionally calculations were performed for crop use on vines which is not one of the current representative uses. Consequently the report is now invalid and a summary of the results is not presented in this dossier. For procedural reasons it has to be included in the current dossier however it is now superseded by KCP 9.2.4.1/07; [redacted] & [redacted] 2020; M-688510-01-1 and KCP 9.2.4.1/08; [redacted] 2020; M-688511-01-1.

Data Point:	KCP 9.2.4.1/02
Report Author:	[redacted]
Report Year:	2001
Report Title:	Leaching risk assessment for propamocarb-hydrochloride for the application to lettuce and tomato in Europe following FOCUS procedures Code: AE B066752
Report No:	C014997
Document No:	M-207713-01-1
Guideline(s) followed in study:	--
Deviations from current test guideline:	--
Previous evaluation:	yes, evaluated and accepted DAR (2005)
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

In the previous submission (DAR, 2005), this modelling report was evaluated and accepted as valid. However the modelling endpoints have been superseded by new studies and new kinetic evaluations. Consequently the report is now invalid and a summary of the results is not presented in this dossier. For procedural reasons it has to be included in the current dossier.

Data Point:	KCP 9.2.4.1/03
Report Author:	[redacted]
Report Year:	2007
Report Title:	Predicted environmental concentrations in groundwater (PECgw) for fluopicolide and its metabolites calculated with FOCUS PEARL and FOCUS PELMO - Use in potatoes in Europe
Report No:	MEF-07/165
Document No:	M-287335-01-1
Guideline(s) followed in study:	not applicable
Deviations from current test guideline:	not applicable
Previous evaluation:	yes, evaluated and accepted Addendum 1 to the DAR (2007)
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

In the previous submission (Addendum 1 to the DAR, 2007), this modelling report was evaluated and accepted in part as valid. However the modelling endpoints have been superseded by new studies and new kinetic evaluations. Consequently the report is now invalid and a summary of the results is not presented in this dossier. For procedural reasons it has to be included in the current dossier however it is now superseded by KCP 9.2.4.1/07; [redacted] 2020; M-688510-01-1.

Data Point:	KCP 9.2.4.1/04
Report Author:	[redacted]
Report Year:	2008
Report Title:	Predicted environmental concentrations in groundwater (PECgw) for fluopicolide and its metabolites calculated with FOCUS PEARL and FOCUS PELMO - Use in potatoes in Europe
Report No:	MEF-08/154
Document No:	M-299223-01-1
Guideline(s) followed in study:	not applicable
Deviations from current test guideline:	not applicable
Previous evaluation:	yes, evaluated and accepted Addendum 2 to the DAR (2008)
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

In the previous submission (Addendum 2 to the DAR, 2008), this modelling report was evaluated and accepted as valid. However the modelling endpoints have been superseded by new studies and new kinetic evaluations. Consequently the report is now invalid and a summary of the results is not presented in this dossier. For procedural reasons it has to be included in the current dossier however it is now superseded by KCP 9.2.4.1/07; [redacted] 2020; M-688510-01-1.

Data Point:	KCP 9.2.4.1/05
Report Author:	[redacted]
Report Year:	2018
Report Title:	Fluopicolide (FLC) and metabolite M-15: PECgw FOCUS PEARL and PELMO in Vines and Potato
Report No:	VC/18/009D
Document No:	M-630003-02-1
Guideline(s) followed in study:	none
Deviations from current test guideline:	Not applicable
Previous evaluation:	yes, evaluated and accepted Confirmatory Data 2018
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

In the previous submission (Confirmatory Date, 2018), this modelling report was evaluated and accepted in part as valid. However the modelling endpoints have been superseded by new kinetic evaluations. Additionally calculations were performed for crop use on vines which is not one of the current representative uses. Consequently the report is now invalid and a summary of the results is not presented in this dossier. For procedural reasons it has to be included in the current dossier however it is now superseded by KCP 9.2.4.1/07; [redacted] 2020; M-688510-01-1 and KCP 9.2.4.1/08; [redacted] 2020; M-688511-01-1.

PEC_{gw} for fluopicolide

Data Point:	KCP 9.2.4.1/06
Report Author:	[redacted]
Report Year:	2020
Report Title:	Fluopicolide (FLC): Core PECgw EUR - Modelling core info document for groundwater risk assessment in Europe
Report No:	VC/19/041J
Document No:	M-688396-01-1
Guideline(s) followed in study:	FOCUS Degradation Kinetics 2006 and 2014
Deviations from current test guideline:	None
Previous evaluation:	No, not previously submitted
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

Executive Summary

This document summarises the substance data for fluopicolide and its metabolites as used for the purpose of groundwater risk assessment. The following deterministic pesticide fate models were used in the calculations:

- FOCUS PEARL
- FOCUS PELMO
- FOCUS MACRO

The parameters correspond to standard EU requirements.

Modelling reports utilising this core info document should have the substance data presented in the form as shown in Table 9.2.4- 1 and Table 9.2.4- 2.

Table 9.2.4- 1: Compound input parameters for fluopicolide and its metabolites – without aged sorption

Parameter	Unit	Fluopicolide	M-01 (AE C653711)	M-02 (AE C657188)	M-03* (AE 0608000)	M-05 (AE 1344122)
Common						
Molar mass	(g/mol)	383.59	190.03	225.56	399.58	253.2
Solubility	(mg/L)	2.8	2220	115000	10	120000
at temp.	(°C)	20	20	20	20	20
Vapour pressure	(Pa)	0 (default)	0 (default)	0 (default)	0 (default)	0 (default)
at temp.	(°C)	20	20	20	20	20
Freundlich exponent	(-)	0.888	0.914	0.889	0.971	0.942
Plant uptake factor	(-)	0.5	0.5	0	0	0
Walker exponent	(-)	0.7	0.7	0.7	0.7	0.7
PEARL parameters						
Substance code	(-)	FLC	M01	M02	M03	M05
DT50	(days)	182.0	146.0	1.6	17.9	25.2
Molar activ. energy	(kJ/mol)	65.4	65.4	65.4	65.4	65.4
Kom	(mL/g)	155.3	14.0	3.3	62.0	8.1
PELMO parameters						
Substance code	(-)	Fluopicolide	M-01	M-02	M-03	M-05
Rate constant	(1/day)	0.003809	0.004748	0.433217	0.038723	0.027506
Q10	(-)	2.58	2.58	2.58	2.58	2.58
Koc	(mL/g)	267.7	24.1	5.7	106.9	14.0
MACRO parameters						
Substance code	(-)	Fluopicolide	-	-	-	-
Exponent moisture	(-)	0.49	0.49	0.49	0.49	0.49
Exponent temperature	(1/K)	0.0948	0.0948	0.0948	0.0948	0.0948

Parameter	Unit	M-10 (AE 1344123)	M-11/12 (AE 1344119/ AE 1344120)	M-13 (Fluopicolide-P3)	M-14 (AE 1388273)	M-15 (AE 1413903)
Common						
Molar mass	(g/mol)	271.17	287.17	241.55	241.19	463.64
Solubility	(mg/L)	100000	1000	1000	15800	160000
at temp.	(°C)	20	20	20	20	20
Vapour pressure	(Pa)	0 (default)	0 (default)	0 (default)	0 (default)	0 (default)
at temp.	(°C)	20	20	20	20	20
Freundlich exponent	(-)	1.0	1.0	1.0	0.942	0.937
Plant uptake factor	(-)	0	0	0	0	0
Walker exponent	(-)	0.7	0.7	0.7	0.7	0.7
PEARL parameters						
Substance code	(-)	M10	M11-2	M13	M14	M15
DT50	(days)	35.4	87.6	20.7	9.4	145.0
Molar activ. energy	(kJ/mol)	65.4	65.4	65.4	65.4	65.4
Kom	(mL/g)	1.1	0	0	5.7	10.9
PELMO parameters						
Substance code	(-)	M-10	M-11/12	M-13	M-14	M-15
Rate constant	(1/day)	0.019580	0.007913	0.033485	0.073739	0.004780
Q10	(-)	2.58	2.58	2.58	2.58	2.58
Koc	(mL/g)	1.8	0	0	9.9	18.8
MACRO parameters						
Substance code	(-)	-	-	-	-	-
Exponent moisture	(-)	0.49	0.49	0.49	0.49	0.49
Exponent temperature	(1/K)	0.0948	0.0948	0.0948	0.0948	0.0948

* Metabolite M-03 not simulated in alkaline soils

Table 9.2.4- 2: Compound input parameters for fluopicolide and metabolites – with aged sorption

Parameter	Unit	Fluopicolide	M-01 (AE C653711)	M-02 (AE C657188)	M-03* (AE 0608000)	M-05 (AE 1344122)
Common						
Molar mass	(g/mol)	383.59	190.03	225.56	399.58	253.2
Solubility	(mg/L)	2.8	2220	115000	10	120000
at temp.	(°C)	20	20	20	20	20
Vapour pressure	(Pa)	0 (default)	0 (default)	0 (default)	0 (default)	0 (default)
at temp.	(°C)	20	20	20	20	20
Freundlich exponent	(-)	0.888	0.914	0.889	0.971	0.942
Plant uptake factor	(-)	0.5	0.5	0	0	0
Walker exponent	(-)	0.7	0.7	0.7	0.7	0.7
PEARL parameters						
Substance code	(-)	FLC	M01	M02	M03	M05
DT50	(days)	121.0	146.0	1.6	17.9	25.2
Molar activ. energy	(kJ/mol)	65.4	65.4	65.4	65.4	65.4
Kom	(mL/g)	155.3	14.0	3.3	62.0	8.1
k_{des}	(1/day)	0.0356	0	0	0	0
F_{ne}	(-)	0.508	0	0	0	0
PELMO parameters						
Substance code	(-)	Fluopicolide	M-01	M-02	M-03	M-05
Rate constant	(1/day)	0.005728	0.004748	0.435217	0.038723	0.027506
Q10	(-)	2.58	2.58	2.58	2.58	2.58
Koc	(mL/g)	267.7	24.1	5.7	106.9	14.0
MACRO parameters						
Substance code	(-)	Fluopicolide	-	-	-	-
Exponent moisture	(-)	0.49	0.49	0.49	0.49	0.49
Exponent temperature	(1/K)	0.0948	0.0948	0.0948	0.0948	0.0948
Parameter	**Unit**	**M-10 (AE 1344123)**	**M-11/12 (AE 1344119/ AE 1344120)**	**M-13 (Fluopicolide-P3)**	**M-14 (AE 1388273)**	**M-15 (AE 1413903)**
Common						
Molar mass	(g/mol)	271.17	287.17	241.55	241.19	463.64
Solubility	(mg/L)	100000	1000	1000	15800	160000
at temp.	(°C)	20	20	20	20	20
Vapour pressure	(Pa)	0 (default)	0 (default)	0 (default)	0 (default)	0 (default)
at temp.	(°C)	20	20	20	20	20
Freundlich exponent	(-)	1.0	1.0	1.0	0.942	0.937
Plant uptake factor	(-)	0	0	0	0	0
Walker exponent	(-)	0.7	0.7	0.7	0.7	0.7
PEARL parameters						
Substance code	(-)	M10	M11-2	M13	M14	M15
DT50	(days)	35.4	87.6	20.7	9.4	145.0
Molar activ. energy	(kJ/mol)	65.4	65.4	65.4	65.4	65.4
Kom	(mL/g)	1.1	0	0	5.7	10.9
k_{des}	(1/day)	0	0	0	0	0
F_{ne}	(-)	0	0	0	0	0
PELMO parameters						
Substance code	(-)	M-10	M-11/12	M-13	M-14	M-15
Rate constant	(1/day)	0.019580	0.007913	0.033485	0.073739	0.004780
Q10	(-)	2.58	2.58	2.58	2.58	2.58
Koc	(mL/g)	1.8	0	0	9.9	18.8

MACRO parameters						
Substance code	(-)	-	-	-	-	-
Exponent moisture	(-)	0.49	0.49	0.49	0.49	0.49
Exponent temperature	(1/K)	0.0948	0.0948	0.0948	0.0948	0.0948

* Metabolite M-03 not simulated in alkaline soils

I. Materials and Methods

Calculation of the substance parameters for fluopicolide and its metabolites M-01, M-02, M-03, M-05, M-10, M-11/M-12, M-13, M-14, and M-15 is detailed as follows:

Figure 9.2.4- 1: Degradation pathway for fluopicolide in acidic soils

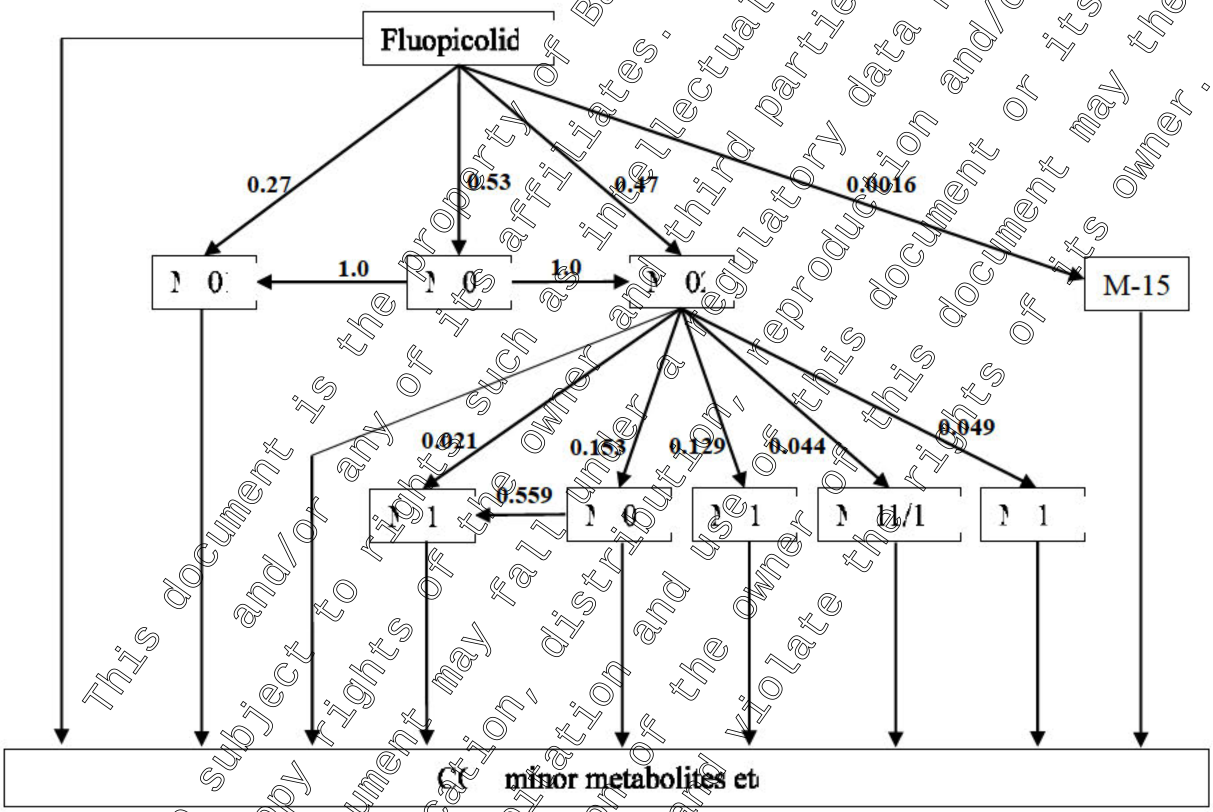


Figure 9.2.4- 2: Degradation pathway for fluopicolide in alkaline soils

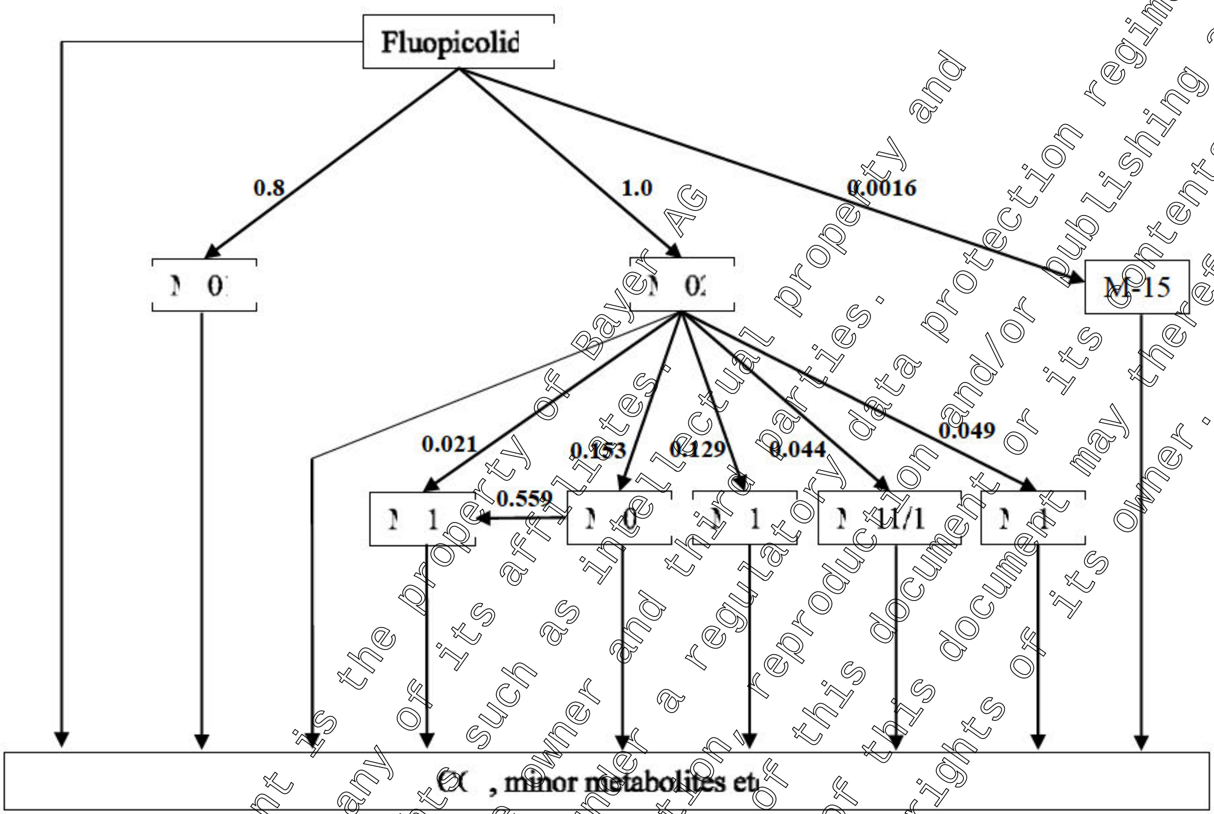


Table 9.2.4- 3: Degradation pathway related parameters for fluopicolide and its metabolites

Degradation fraction from → to (-) (FOCUS PEARL): **acidic soils**	FLC → M01: 0.27 FLC → M02: 0.47 FLC → M03: 0.53 FLC → M15: 0.0016 M03 → M01: 1.0 M03 → M02: 1.0 M02 → M05: 0.153 M02 → M10: 0.129 M02 → M11-2: 0.044 M02 → M13: 0.049 M02 → M14: 0.021 M05 → M14: 0.559
Degradation fraction from → to (-) (FOCUS PEARL): **alkaline soils**	FLC → M01: 0.8 FLC → M02: 1.0 FLC → M15: 0.0016 M02 → M05: 0.153 M02 → M10: 0.129 M02 → M11-2: 0.044 M02 → M13: 0.049 M02 → M14: 0.021 M05 → M14: 0.559
Partial DT_{50}/Degradation rate from → to (day or 1/day) (FOCUS PELMO)[a]: **acidic soils**	Pathway 1: Active Substance → M-02: 387.234 / 0.0017900 Active Substance → M-03: 343.396 / 0.0020190

	Active Substance (TDS) → M-02: 257.447 / 0.0026920 Active Substance (TDS) → M-03: 228.302 / 0.0030360 Active Substance → BR/CO2: 0 M-03 → M-02: 17.9 / 0.0387230 M-02 → M-05: 10.458 / 0.0662790 M-02 → M-10: 12.403 / 0.0558850 M-02 → M-14: 76.190 / 0.0090980 M-02 → BR/CO2: 2.296 / 0.3018930 M-05 → M-14: 45.081 / 0.0153760 M-05 → BR/CO2: 57.143 / 0.0121300 M-10 → BR/CO2: 35.4 / 0.0195800 M-14 → BR/CO2: 9.4 / 0.0737390 Pathway 2: Active Substance → M-02: 387.234 / 0.0017900 Active Substance → M-03: 343.396 / 0.0020190 Active Substance (TDS) → M-02: 257.447 / 0.0026920 Active Substance (TDS) → M-03: 228.302 / 0.0030360 Active Substance → BR/CO2: 0 M-03 → M-02: 17.9 / 0.0387230 M-02 → M-11/12: 36.364 / 0.0190610 M-02 → M-13: 32.653 / 0.0212280 M-02 → BR/CO2: 1.764 / 0.3929410 M-11/12 → BR/CO2: 87.6 / 0.0079130 M-13 → BR/CO2: 20.7 / 0.0737390 Pathway 3: Active Substance → M-01: 674.074 / 0.0010280 Active Substance → M-03: 343.396 / 0.0020190 Active Substance → M-15: 113750 / 6.09E-06 Active Substance → BR/CO2: 917.339 / 0.000756 Active Substance (TDS) → M-01: 448.148 / 0.0015470 Active Substance (TDS) → M-03: 228.302 / 0.0030360 Active Substance (TDS) → M-15: 75625 / 9.17E-06 Active Substance (TDS) → BR/CO2: 609.879 / 0.0011370 M-03 → M-01: 17.9 / 0.0387230 M-01 → BR/CO2: 146 / 0.0047480 M-15 → BR/CO2: 145 / 0.0047800
Partial DT$_{50}$/Degradation rate from → to (day or 1/day) (FOCUS PELMO)*: **alkaline soils**	Pathway 1: Active Substance → M-02: 182 / 0.0038090 Active Substance (TDS) → M-02: 121 / 0.0057280 Active Substance → BR/CO2: 0 M-02 → M-05: 10.458 / 0.0662790 M-02 → M-10: 12.403 / 0.0558850 M-02 → M-14: 76.190 / 0.0090980 M-02 → BR/CO2: 2.296 / 0.3018930 M-05 → M-14: 45.081 / 0.0153760 M-05 → BR/CO2: 57.143 / 0.0121300 M-10 → BR/CO2: 35.4 / 0.0195800 M-14 → BR/CO2: 9.4 / 0.0737390 Pathway 2: Active Substance → M-02: 182 / 0.0038090 Active Substance (TDS) → M-02: 121 / 0.0057280 Active Substance → BR/CO2: 0 M-02 → M-11/12: 36.364 / 0.0190610 M-02 → M-13: 32.653 / 0.0212280 M-02 → BR/CO2: 1.764 / 0.3929410 M-11/12 → BR/CO2: 87.6 / 0.0079130

	M-13 → BR/CO2: 20.7 / 0.0737390 Pathway 3: Active Substance → M-01: 227.500 / 0.0030470 Active Substance → M-15: 113750 / 6.09E-06 Active Substance → BR/CO2: 917.339 / 0.000756 Active Substance (TDS) → M-01: 151.250 / 0.0045830 Active Substance (TDS) → M-15: 75625 / 9.17E-06 Active Substance (TDS) → BR/CO2: 609.879 / 0.0011370 M-01 → BR/CO2: 146 / 0.0047480 M-15 → BR/CO2: 145 / 0.0047800
Conversion factor from → to (-) (FOCUS MACRO)[b]: **acidic soils**	-
Conversion factor from → to (-) (FOCUS MACRO)[b]: **alkaline soils**	-

[a] Calculated as *ln(2) / DT50 × formation fraction*
[b] Calculated as *molar mass / molar mass predecessor × formation fraction*

Figure 9.2.4- 3 PELMO simulation pathways for fluopicolide in acidic soils

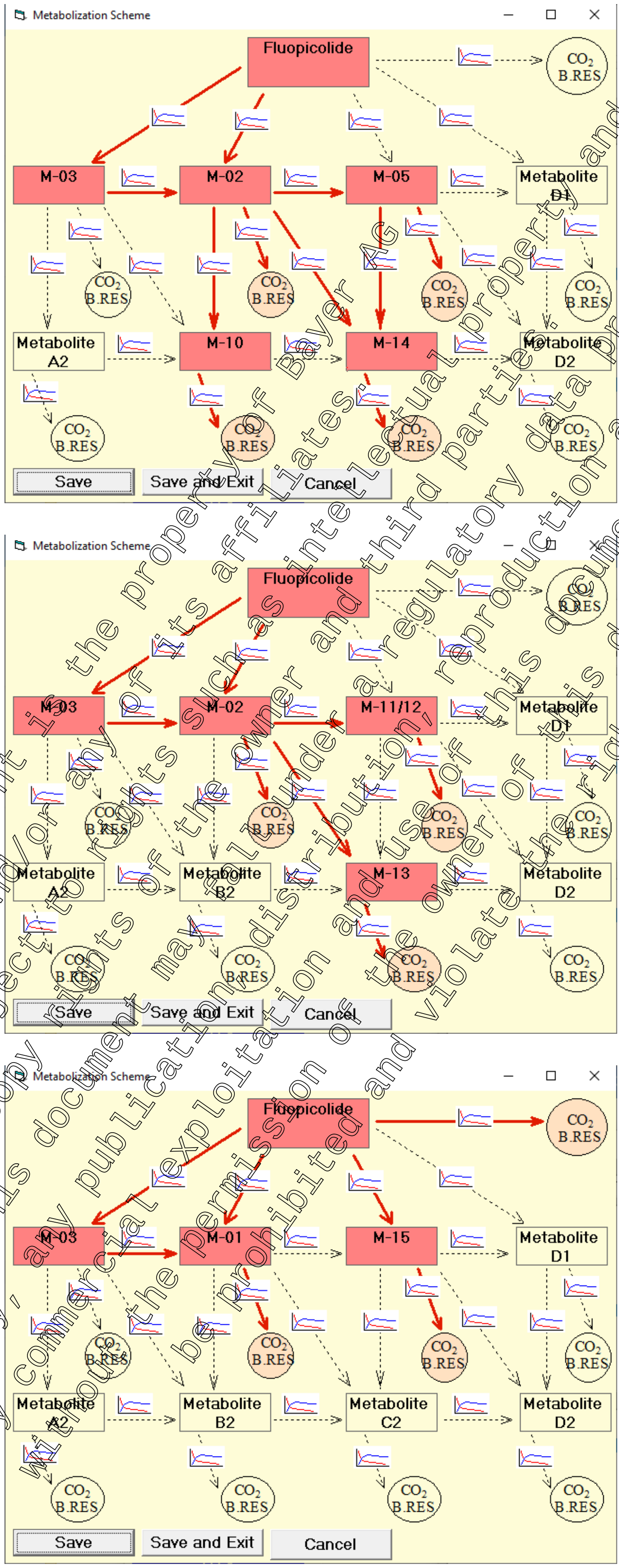
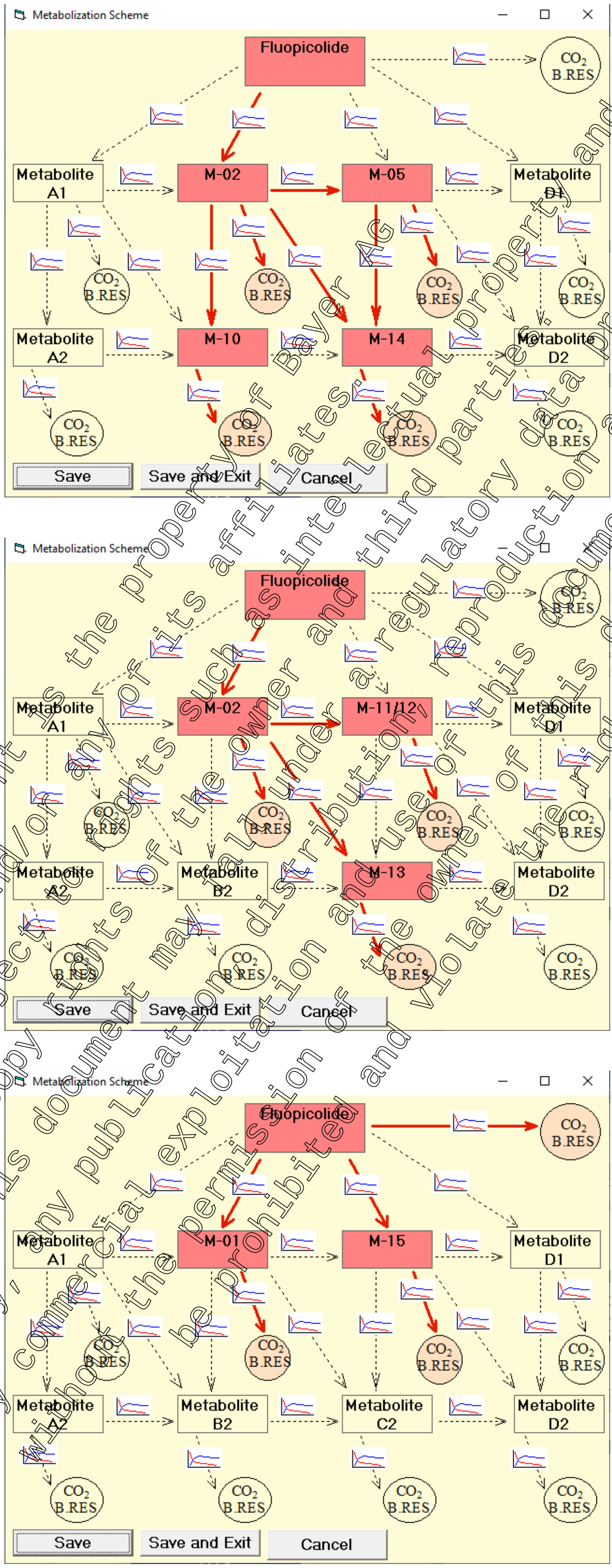
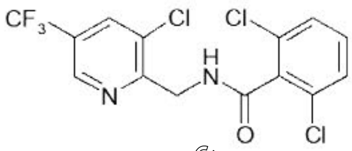


Figure 9.2.4- 4: PELMO simulation pathways for fluopicolide in alkaline soils



Fluopicolide (AE C638206)

Physico-Chemical Properties

Structural formula	
Common name	Fluopicolide (AE C638206)
Chemical name (IUPAC)	2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]-benzamide
Molar mass	383.59 g mol^{-1}
Water solubility	2.8 mg L^{-1} at 20°C (M-234496-01-1, [redacted] 2003a)
Vapour pressure	3.03 × 10^{-7} Pa at 20°C (M-197457-01-1, [redacted] 2000)

Degradation in Aerobic Soil

Laboratory studies

The aerobic degradation and metabolism of fluopicolide in soil was investigated in the laboratory by M-201230-02-1, [redacted] (2003); M-241049-01-1, [redacted] (2003a); M-241052-01-1, [redacted] (2003b); M-241051-01-1, [redacted] (2003c); M-550687-01-1, [redacted] (2016a); M-555570-01-1, [redacted] (2016b) and M-655056-01-1, [redacted] (2019). A summary of the modelling endpoint $DegT_{50}$ values derived for fluopicolide (KCA 7.1.2.1.1/10, M-685680-01-1, [redacted] 2020), normalised to 20°C and pF2, is given in Table 9.2.4- 4.

Table 9.2.4- 4: Summary of $DegT_{50}$ values derived for fluopicolide under laboratory conditions (after M-685680-01-1, [redacted] 2020)

Applied compound	Study	Soil	Model selected	$DegT_{50}$ un-normalised (d)	$DegT_{50}$ normalised to 20°C and pF2 (d)
Fluopicolide	M-201230-02-1, [redacted] 2003	Münster	SFO	212.0	212.0
		Sarotti	SFO	191.2	191.2
	M-241049-01-1, [redacted] 2003a	Abington (non-sterile)	SFO	348.0	340.2
	M-241051-01-1, [redacted] 2003b	Lamberton	SFO	1290.0	1037.9
	M-241052-01-1, [redacted] 2003c	Lamberton	SFO	358.0	395.8
		Pikeville	DFOP	612.9[a] / 30.1[b]	616.0[a] / 30.3[b]
	M-550687-01-1, [redacted] 2016a	Albaro/Marcomcini	DFOP	146.2[a] / 2.8[b]	146.2[a] / 2.8[b]
		Great Chishill	DFOP	312.4[a] / 2.7[b]	312.4[a] / 2.7[b]
		[redacted]	DFOP	155.5[a] / 7.2[b]	155.5[a] / 7.2[b]
		Mas du Coq	DFOP	216.7[a] / 10.5[b]	193.7[a] / 9.4[b]
		Parcey Meslay	DFOP	202.5[a] / 8.1[b]	202.5[a] / 8.1[b]
		Vilobi d'Ònyar	DFOP	93.5[a] / 7.8[b]	93.5[a] / 7.8[b]
		Dollendorf II	DFOP	111.4[a] / 0.6[b]	111.4[a] / 0.6[b]

Applied compound	Study	Soil	Model selected	$DegT_{50}$ un-normalised (d)	$DegT_{50}$ normalised to 20°C and pF2 (d)
	M-555570-01-1, [redacted] 2016b	[redacted]	DFOP	137.7[a] / 4.2[b]	137.7[a] / 4.2[b]
		[redacted]	DFOP	141.3[a] / 6.3[b]	141.3[a] / 6.3[b]
		[redacted]	DFOP	133.5[a] / 9.4[b]	133.5[a] / 9.4[b]
	M-655056-01-1, [redacted] 2019	Abington 2	DFOP	142.1[a] / 1.9[b]	142.1[a] / 1.9[b]
		Lamberton	DFOP	176.1[a] / 2.8[b]	145.1[a] / 2.3[b]
		Lignieres	DFOP	141.4[a] / 1.4[b]	141.4[a] / 1.4[b]
		Münster	DFOP	170.1[a] / 5.3[b]	124.5[a] / 3.9[b]
		Pikeville	DFOP	155.2[a] / 4.1[b]	129.4[a] / 3.5[b]
		Sarotti 2	DFOP	161.2[a] / 1.6[b]	143.6[a] / 1.4[b]
Geometric mean (SFO and DFOP slow phase)					181.6[c]

a – Pseudo-SFO value based on slow phase of decline (calculated as $\ln(2)/k_2$ and normalised if applicable)
b – Pseudo-SFO value based on fast phase of decline (calculated $\ln(2)/k_1$ and normalised if applicable)
c – Geometric mean calculated of $DegT_{50}$ values from Lamberton soils prior to calculation of overall geometric mean

Field Dissipation Studies

$DegT_{50}$ values for fluopicolide, normalised to 20°C and pF2, have been derived by M-685675-01-1, [redacted] (2020a) and M-685676-01-1, [redacted] (2020b) from 12 terrestrial field dissipation studies (M-651636-01-1, [redacted] (2019a); M-218667-01-1, [redacted] (2003); M-220477-02-1, [redacted] (2003); M-234424-01-1, [redacted] (2004); M-247945-01-1, [redacted] (2005a); M-251338-01-1, [redacted] (2005b); M-218672-01-1, [redacted] (2003)). A summary of the modelling endpoint $DegT_{50}$ values derived for fluopicolide is given in Table 9.2.4- 5.

Table 9.2.4- 5: Summary of $DegT_{50}$ values (normalised to 20°C and pF2) derived for fluopicolide from terrestrial field dissipation studies (after M-685675-01-1, [redacted] 2020a and M-685676-01-1, [redacted] 2020b)

Soil type	Aerobic field conditions					
	Location (country)	pH ($CaCl_2$)	Depth (cm)	St. (χ^2err) (%)	Method of calculation	$DegT_{50}$ (d) norm
Silt loam	Burscheid (Germany)	5.9	0-120	9.80	SFO	111.9
Clay	Great Chishill (UK)	7.8	0-120	11.64	SFO	216.9
Sandy loam	Lignieres de Touraine (France)	6.9	0-120	4.82	SFO	158.6
Clay loam	St.Etienne du Grès (France)	8.1	0-120	4.90	SFO	303.2
Clay loam	Albaro di Ronco all'Adige (Italy)	7.7	0-120	9.99	SFO	237.3
Sandy clay loam	Vilobi d'Onyar (Spain)	6.9	0-120	6.20	SFO	166.8
Loamy sand	Philippsburg (Germany)	6.4	0-50	9.477	SFO	199.6
Sandy clay loam	Rödelsee (Germany)	7.4	0-30	21.59	SFO	146.4
Sand	Huntlosen (Germany)	4.9	0-50	15.46	SFO	168.4
Loamy sand	Valencia (Spain)	7.3	0-30	13.95	SFO	317.4
Sandy silt	Appilly (France)	7.1	0-30	11.16	SFO	144.2
Sandy silt loam	Senas (France)	7.6	0-45	9.864	SFO	136.5
					Geometric mean	183

Degradation in Aerobic Soil: Overall DegT$_{50}$ value

Degradation half-lives for fluopicolide derived from laboratory and field dissipation studies were compared using the EFSA DegT$_{50}$ Endpoint Selector (EFSA, 2014). This comparison indicated that the laboratory and field DegT50 values for fluopicolide should be combined.

An overall geometric mean DegT$_{50}$ value of **182 days** in soil was derived for fluopicolide for use in surface water calculations, including both laboratory and field data.

Plant Uptake

The plant uptake factor for fluopicolide was set to **0.5**. Residues of fluopicolide and metabolites have been found in different plants in a rotational crop study (M-240707-03-1, [redacted] 2003). Fluopicolide is redistributed via the xylem (acropetal systemic activity) but is not phloem mobile. TSCF calculated according to Briggs is 0.47.

The uptake of fluopicolide into potato plants has been investigated in a new study (M-688372-01-1, [redacted] 2020) and the transpiration stream concentration factor (TSCF) determined. The mean TSCF was determined as 0.71 (DAT2), 0.75 (DAT4) and 0.82 (DAT6), thus fully supporting the use of the default value of 0.5 in the PECgw evaluations.

Adsorption

The adsorption and desorption of fluopicolide has been investigated in five studies (M-241425-01-1, [redacted] 2003b; M-233840-01-1, [redacted] 2003b; M-544194-02-1, [redacted] 2015; M-572869-01-1, [redacted] 2016; M-595721-01-1, [redacted] 2017). A summary of KOC and 1/n values derived for fluopicolide from these studies is given in Table 9.2.4- 6.

A geometric mean K_{OC} value of **267.7 mL/g**, corresponding to a K_{OM} value of 155.3 mL/g ($K_{OM} = K_{OC} \div 1.724$), was used for fluopicolide in the modelling, with an arithmetic mean 1/n value of **0.888**.

Table 9.2.4- 6: Summary of sorption parameters derived for fluopicolide

Study reference	Soil	Soil Code	Texture	pH	OC [%]	K_f (mL/g)	K_{OC} (mL/g)	1/n
M-241425-01-1, [redacted] (2003b)	Pikeville Sediment	EFS-54	loam	4.5	2.07	7.73	373*	0.926*
	Pikeville, North Carolina	EFS-65	sand	4.7	0.5	1.42	283	0.924
	Abington	EFS-86	sandy loam	7.5	2.21	7.53 (**3.36)	341 (**151.6)	0.929 (**0.882)
	Sarotti	EFS-88	silty clay loam	7.4	0.9	3.2	356	0.905
	Münster	EFS-93	loamy sand	5.7	1.3	4.54	349	0.929
	Münster	EFS-94	loamy sand	6.2	0.2	0.21	106*	0.931*
	Münster	EFS-95	loamy sand	6.2	0.2	0.17	83*	0.951*
M-233840-01-1, [redacted] (2003b)	Philippsburg	03/02	sandy loam	6.3	0.6	1.49	248	0.841
	Senas	03/03	clay loam	7.6	1.5	3.59	239	0.882
	Huntlosen	03/04	loamy sand	5.3	1.6	9.27	580	0.953
	Rodelsee	03/05	clay	7	1.5	2.59	172	0.859
M-544194-02-1, [redacted] (2015)	[redacted]	WuW	loam	5	1.8	4.65	258.6	0.9258
	[redacted]	HaH	silt loam	6.1	1.9	6.22	327.5	0.8741
	Dollendorf II,	Doll	clay loam	7.3	4.8	11.71	244.1	0.8596
	[redacted]	AXXa	sandy loam	6.5	1.5	4.04	269.3	0.8723

Study reference	Soil	Soil Code	Texture	pH	OC [%]	K_f (mL/g)	K_{OC} (mL/g)	1/n
M-572869-01-1, [redacted] 2016)	Burscheid	VG08	silt loam	6.1	0.7	2.12	303.3	0.8868
	Great Chishill	ENG2	clay	7.3	2.1	5.40	257.0	0.9076
	Parcay Meslay	FR09B	loam	6.7	1.3	3.35	257.4	0.8992
	Tarascon Le Cayades	FR08	clay loam	7.6	0.9	1.84	204.9	0.8668
	Valerio Tomelini	IT09	silty clay	7.2	2.1	3.93	187.0	0.9110
	Vilobi D'Onyar	SPA01	sandy loam	6.3	0.8	2.34	292.0	0.8818
M-595721-01-1, [redacted] (2017)	Abington	AB	sandy loam	7.3	2.6	5.6	214.7	0.868
	Lamberton	LB	loam	5.6	2.6	8.6	331.9	0.844
	Lignieres	LN	sandy loam	5.7	0.8	2.9	363.1	0.888
	Muenster	MS	loamy sand	5.6	1.2	3.4	282.6	0.916
	Pikeville	PV	loamy sand	4.5	1.8	6.2	342.6	0.873
	Sarotti	SR	silty clay loam	6.9	1.4	2.6	185.6	0.851
						Arithmetic mean		0.888
						Geometric mean	267.7	-

*excluded from calculations, **checklist value used for geomean and average

Aged sorption

Data from three aerobic degradation and time-dependent sorption studies in sixteen soils (M-550687-01-1, [redacted] 2016a; M-555570-01-1, [redacted] 2016b and M-655056-01-1, [redacted] 2019) were evaluated by M-685678-02-1, [redacted] (2020a). The aged sorption parameters derived for fluopicolide are summarised in Table 9.2.4- 7.

Existing lower-tier degradation study data for fluopicolide from laboratory studies (M-201230-02-1, [redacted] 2003; M-241049-01-1, [redacted] 2003a; M-241052-01-1, [redacted] 2003b; M-241051-01-1, [redacted] 2003c and M-685680-01-1, [redacted] 2020) and field studies (M-651636-01-1, [redacted] 2019a; M-685675-01-1, [redacted] 2020a; M-218667-01-1, [redacted] 2003; M-220477-02-1, [redacted] 2003; M-234421-01-1, [redacted] 2004; M-247945-01-1, [redacted] 2005a; M-251338-01-1, [redacted] 2005b; M-218672-01-1, [redacted] 2003; M-685676-01-1, [redacted] 2020b) were also evaluated to derive DegT50eq values (M-687157-01-1, [redacted] 2020b). When combined with the higher-tier aged-sorption values, this yielded an overall geometric mean DegT50eq of **121 days** (Table 9.2.4- 8) for use in exposure modelling, in combination with the mean aged-sorption parameters: Fne **0.508** and kdes **0.0356 d^{-1}**.

The F_{ne} and k_{des} values require conversion for use in MACRO, resulting in $F_{neMACRO}$ **0.337** and α_{MACRO} **0.0120**.

Table 9.2.4- 7: Aged-sorption parameters derived for fluopicolide (after M-685678-02-1, [redacted] 2020a)

Soil	f_{NE} (-)	K_{des} (1/d)	DT_{50},eq (d)	DT_{50}, eq 20°C, pF2 (d)	Evidence of aged sorption	Robust parameters
[redacted]	0.553	0.0432	80.5	80.5	Yes	Yes
Dollendorf	0.271	0.0433	98.6	98.6	Yes	Yes
[redacted]	0.632	0.0420	69.8	69.8	Yes	Yes
[redacted]	0.785	0.0467	45.4	45.4	Yes	Yes
[redacted]	0.506	0.0507	76.2	76.2	Yes	Yes
Great Chishill	0.571	0.0248	170.9	170.9	Yes	Yes

Soil	f_{NE} (-)	K_{des} (1/d)	DT_{50},eq (d)	DT_{50}, eq 20°C, pF2 (d)	Evidence of aged sorption	Robust parameters
Parcey Meslay	0.493	0.0524	111.0	111.0	Yes	Yes
Mas du Coq	0.514	0.0310	121.2	108.4	Yes	Yes
Albaro	0.303	0.0287	112.2	112.2	Yes	Yes
Vilobi d'Ònyar	0.435	0.0575	52.2	52.2	Yes	Yes
Abington	0.289	0.0855	97.5	97.5	Yes	Yes
Lamberton	0.830	0.0145	111.2	91.6	Yes	Yes
Munster	0.524	0.0163	103.1	75.4	Yes	Yes
Pikeville	0.710	0.0319	80.2	66.8	Yes	Yes
Sarrotti	0.484	0.0534	111.5	99.3	Yes	Yes
Lignieres	0.638	0.0158	96.8	96.8	Yes	Yes
Geometric mean	**0.508**	**0.0356**		**86.6**	-	-

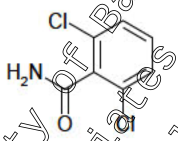
Table 9.2.4- 8: Overall $DegT_{50eq}$ evaluation results (after M-687157-01-1, [redacted] 2020b)

Soil	$DegT_{50}$, eq (days)	Derivation
[redacted]	80.5	TDS – PEARLneq
Dollendorf	98.6	TDS – PEARLneq
[redacted]	69.8	TDS – PEARLneq
[redacted]	45.4	TDS – PEARLneq
[redacted]	76.2	TDS – PEARLneq
Great Chishill	170.9	TDS – PEARLneq
Parcey Meslay	111.0	TDS – PEARLneq
Mas du Coq	108.4	TDS – PEARLneq
Albaro	112.2	TDS – PEARLneq
Vilobi d'Ònyar	52.2	TDS – PEARLneq
Abington	97.5	TDS – PEARLneq
Lamberton	91.6	TDS – PEARLneq
Munster	75.4	TDS – PEARLneq
Pikeville	66.8	TDS – PEARLneq
Sarrotti	99.3	TDS – PEARLneq
Lignieres	96.8	TDS – PEARLneq
Munster	178.1	Lab Tier 1 refit
Sarrotti	138.6	Lab Tier 1 refit
Abington	256.4	Lab Tier 1 refit
Lamberton	532.5	Lab Tier 1 refit
Pikeville	295.2	Lab Tier 1 refit
Burscheid (Germany)	84.3	Field Scaling factor 1
Great Chishill (UK)	155.8	Field Scaling factor 1
Lignieres de Touraine (France)	109.8	Field Scaling factor 1
St Etienne du Grès (France)	234.2	Field Scaling factor 1
Albaro di Ronco all'Adige (Italy)	205.3	Field Scaling factor 1
Vilobi d'Onyar (Spain)	132.5	Field Scaling factor 1
Philippsburg (Germany)	158.9	Field Scaling factor 1

Soil	$DegT_{50}$, eq (days)	Derivation
Rödelsee (Germany)	109.0	Field Scaling factor 1
Huntlosen (Germany)	124.7	Field Scaling factor 1
Valencia (Spain)	234.4	Field Scaling factor 1
Appilly (France)	107.6	Field Scaling factor 1
Senas (France)	101.3	Field Scaling factor 1
Geometric mean	**121**	-

M-01 (BAM; AE C653711)

Physico-Chemical Properties
Structural formula



Common name M-01 (BAM; AE C653711)

Chemical name (IUPAC) 2,6-dichlorobenzamide

Molar mass 190.03 g mol^{-1}

Water solubility 2220 mg L^{-1} at 20°C (M-505637-01-1, [redacted] 2014)

Vapour pressure Assumed 0 Pa as worst case for modelling

Degradation in Aerobic Soil

Laboratory studies

The aerobic degradation of M-01 (BAM) in soil was investigated in the laboratory by M-234320-01-1, [redacted] (2002). In addition, M-01 was observed to form from fluopicolide in six studies (M-241049-01-1, [redacted] 2003a; M-241052-01-1, [redacted] 2003b; M-241051-01-1, [redacted] 2003c; M-550687-01-1, [redacted], 2016a; M-555570-01-1, [redacted], 2016b and M-655056-01-1, [redacted] 2019) and from M-03 in one study (M-241188-01-1, [redacted], 2003). A summary of the modelling endpoints derived for M-01 (KCA 7.1.2.1.1/10, M-685680-01-1, [redacted] 2020) is given in Table 9.2.4- 9.

Overall formation fractions for M-01 (BAM) from fluopicolide, considering both direct formation and formation *via* metabolite M-03, were also derived by M-685680-01-1, [redacted]. (2020), and are summarised in Table 9.2.4- 10. The overall arithmetic mean formation fraction of M-01 from fluopicolide was 0.8. Where metabolite M-03 was included in the groundwater simulations (i.e. for acidic soils), this was implemented by assuming a molar formation fraction of **0.27** from fluopicolide, with a molar formation fraction of **1.0** from metabolite M-03 (where ffm FLC→M-03 = 0.53). Where M-03 was not included in the simulations (i.e. for alkaline soils), the molar formation fraction of M-01 from fluopicolide was set to **0.8**.

Table 9.2.4- 9: Summary of modelling endpoints derived for M-01 (BAM) under laboratory conditions (after M-685680-01-1, [redacted] 2020)

Applied compound	Study	Soil	Model selected	$DegT_{50}$ un-normalised (d)	$DegT_{50}$ normalised to 20°C and pF2 (d)
Fluopicolide	M-201230-02-1 [redacted] 2003	Münster	SFO	1000[a]	1000[a]
		Sarotti	SFO	1000[a]	1000[a]
	M-241049-01-1 [redacted] 2003a	Abington (non-sterile)	SFO	1000[a]	1000[a]
	M-241052-01-1 [redacted] 2003b	Lamberton	SFO	1000[a]	1000[a]
	M-241051-01-1 [redacted] 2003c	Lamberton	SFO	1000[a]	1000[a]
		Pikeville	SFO	173.1	174.0
	M-550687-01-1 [redacted], 2016a	Albaro/Marcomcini	SFO	417.3	417.3
		Great Chishill	SFO	1000[a]	1000[a]
		[redacted]	SFO	571.7	571.7
		Mas du Coq	SFO	472.2	422.2
		Parcey Meslay	SFO	908.4	908.4
		Vilobi d'Onyar	SFO	323.9	323.9
	M-555570-01-1 [redacted], 2016b	Dollendorf II	SFO	159.7	159.7
		[redacted]	SFO	869.3	869.3
		[redacted]	SFO	556.2	556.2
		[redacted]	SFO	1000[a]	1000[a]
	M-650056-01-1 [redacted] 2019	Abington 2	SFO	175.6	175.6
		Lamberton	SFO	1000[a]	1000[a]
		Lignieres	SFO	1000[a]	1000[a]
		Münster	SFO	294.7	215.6
		Pikeville	SFO	135.9	113.3
		Sarotti 2	SFO	267.1	237.9
M-01	M-234320-01-1, [redacted] 2002	Bethany	SFO	1858.0	2077.6
		North Dakota	SFO	568.8	913.6
M-03	M-241188-01-1, [redacted] 2003	Münster	SFO	1000[a]	1000[a]
		Pikeville	SFO	1000[a]	1000[a]
				Geometric mean	569.5[d]

a – Conservative default value

b – Pseudo-SFO value based on slow phase of decline (calculated as $\ln(2)/k_2$ and normalised if applicable)

c – Pseudo-SFO value based on fast phase of decline (calculated $\ln(2)/k_1$ and normalised if applicable)

d – Geometric mean calculated of DT_{50} values from Lamberton soil prior to calculation of overall geometric mean.

Table 9.2.4- 10: Overall formation fraction of M-01 (BAM) from fluopicolide

Applied compound	Study	Soil	ffm FLC→M-01	ffm FLC→M-03	ffm M-03→M-01	Overall ffm from FLC
Fluopicolide	M-201230-02-1 [redacted] 2003	Münster	0.3914	0.6086	0.3892	0.6283
		Sarotti	0.798	-	-	0.798
	M-241049-01-1 [redacted] 2003a	Abington (non-sterile)	0.8406	-	-	0.8406
	M-241052-01-1 [redacted] 2003b	Lamberton	0.7156	-	-	0.7156
	M-241051-01-1 [redacted] 2003c	Lamberton	0.4067	0.5933	1	1
		Pikeville	1	-	-	1
	M-550687-01-1 [redacted] 2016a	Albaro/Marcomcini	0.8262	-	-	0.8262
		Great Chishill	0.6013	-	-	0.6013
		[redacted]	0.8953	-	-	0.8953
		Mas du Coq	0.8075	-	-	0.8075
		Parcey Meslay	0.8286	-	-	0.8286
		Vilobi d'Onyar	0.9776	-	-	0.9776
	M-555570-01-1 [redacted] 2016b	Dollendorf II	0.819	-	-	0.819
		[redacted]	0.8773	-	-	0.8773
		[redacted]	0.8156	-	-	0.8156
		[redacted]	0.8022	-	-	0.8022
	M-655056-01-1 [redacted] 2019	Abington 2	0.7879	-	-	0.7879
		Lamberton	0.7252	-	-	0.7252
		Lignieres	0.6264	-	-	0.6264
		Münster	0.9101	-	-	0.9101
		Pikeville	0.39	0.4009	1	0.7909
		Sarotti 2	0.6227	-	-	0.6227
					Arithmetic mean	**0.80[a]**

[a] – Arithmetic mean calculated of overall formation fractions from Lamberton soil prior to calculation of overall arithmetic mean.

Field Dissipation Studies

$DegT_{50}$ values for M-01 (BAM), normalised to 20°C and pF2, have been derived by M-685675-01-1, [redacted] (2020a) from five terrestrial field dissipation studies (M-650733-02-1, [redacted] 2019b). A summary of the modelling endpoint $DegT_{50}$ values derived for M-01 Table 9.2.4- 11.

Table 9.2.4- 11: Summary of DegT$_{50}$ values (normalised to 20°C and pF2) derived for M-01 (BAM) from terrestrial field dissipation studies (after M-685675-01-1, [redacted] 2020a)

	Aerobic field conditions					
Soil type	**Location (country)**	**pH ($CaCl_2$)**	**Depth (cm)**	**St. (χ^2err) (%)**	**Method of calculation**	**DegT$_{50}$ (d) norm**
Silt loam	Burscheid (Germany)	5.9	0-120	14.68	SFO	94.0
Sandy loam	Lignieres de Touraine (France)	6.9	0-120	7.82	SFO	191.1
Clay loam	St.Etienne du Grès (France)	8.1	0-120	5.87	SFO	179.9
Clay loam	Albarodi Ronco all'Adige (Italy)	7.7	0-120	13.93	SFO	151.8
Sandy clay loam	Vilobi d'Onyar (Spain)	6.9	0-120	10.94	SFO	136.3
					Geometric mean	**146**

Degradation in Aerobic Soil: Overall DegT$_{50}$ value

Degradation half-lives for M-01 (BAM) derived from laboratory and field dissipation studies were compared using the EFSA DegT$_{50}$ Endpoint Selector (EFSA, 2014). This comparison indicated that the field DegT$_{50}$ values for M-01 were significantly shorter than the laboratory studies, therefore the geometric mean field DegT$_{50}$ value of **146 days** was used in the modelling for M-01 (BAM).

Plant uptake

The plant uptake factor for M-01 was set to **0.5**. Residues of fluopicolide, M-01 and other metabolites have been found in different plants in a rotational crop study (M-240707-03-1, [redacted] 2003). M-01 is described as high xylem systemic, TSCF calculated according to Briggs is 0.49. The uptake of M-01 into potato plants has been investigated in a new study (M-688374-01-1, [redacted], 2020b) and the transpiration stream concentration factor (TSCF) determined. The mean TSCF was determined as 0.86 (DAT2), 0.75 (DAT4) and 0.71 (DAT6), thus fully supporting the use of the default value of 0.5 in the PECgw evaluations.

Adsorption

The adsorption and desorption of M-01 (BAM) has been investigated in ten soils (M-235837-01-1, [redacted] 2001; M-224926-01-2, [redacted] 2003; M-686388-01-1, [redacted] 2020a). A summary of the sorption parameters derived for M-01 from these studies is given in Table 9.2.4- 12. A geometric mean K_{OC} value of **24.1 mL/g**, corresponding to a K_{OM} value of **14.0 mL/g** ($K_{OM} = K_{OC} \div 1.724$), was used for M-01 in the modelling, with an arithmetic mean 1/n value of **0.914.**

Table 9.2.4- 12: Summary of sorption parameters derived for M-01 (BAM)

Report reference	Soil	Soil Code	Texture	pH	OC [%]	K_f (mL/g)	K_{OC} (mL/g)	1/n
M-235837-01-1 [redacted] (2001)	Connecticut	RL-51	Sandy loam	4.8	0.9	0.241	26*	1.141*
	North Dakota	RL-81	Sandy loam	7.7	5.7	1.761	31	0.809
	Florida	RM-014	Sand	6.3	1.4	0.529	38	0.916
	Washington	RM-019	Sand	4.9	4.2	1.890	45	0.913
	California	RM-022	Sandy clay loam	6.6	0.4	0.208	51	0.972
M-224926-01-2 [redacted] (2003)	Connecticut	RL-51	Sandy loam	4.8	0.9	0.359	39.9**	0.970**
M-686388-01-1 [redacted] (2020a)	LUFA 2.1	2.1	sand	5.2	0.59	0.103	17.5	0.958
	LUFA 2.3	2.3	sandy loam	6.2	0.61	0.056	9.2	0.859

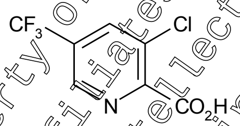
Report reference	Soil	Soil Code	Texture	pH	OC [%]	K_f (mL/g)	K_{OC} (mL/g)	1/n
	LUFA 5M	5M	sandy loam	7.1	1.10	0.162	14.8	0.888*
	LUFA 6S	6S	clay loam	7.3	1.78	0.265	14.9	0.872
	Frankenforst	FF	silt loam	6.9	2.4	0.418	17.4	0.980
						Geometric mean	24.1	-
						Arithmetic mean	-	0.914

*Excluded from calculations
**Recalculated and used for calculations

M-02 (PCA; AE C657188)

Physico-Chemical Properties

Structural formula



Common name	M-02 (PCA; AE C657188)
Chemical name (IUPAC)	3-chloro-5-(trifluoromethyl)pyridine-2-carboxylic acid
Molar mass	225.56 g mol^{-1}
Water solubility	115000 mg L^{-1} at 20°C (M-653965-01-1, [redacted], 2019)
Vapour pressure	Assumed 0 Pa as worst case for modelling

Degradation in Aerobic Soil

The aerobic degradation and metabolism of M-02 (PCA) in soil was investigated in the laboratory by M-219824-01-1, [redacted] (2003) and M-581364-01-1, [redacted] (2017). A summary of the modelling endpoints derived for M-02 (KCA 7.1.2.1.1/10, M-685680-01-1, [redacted] 2020) is given in Table 9.2.4- 13. A geometric mean $DegT_{50}$ value of 1.6 days was used in the modelling for M-02 (PCA).

The overall formation fraction of M-02 (PCA) from fluopicolide was set to 1.0 as a conservative assumption. Where metabolite M-03 was included in the groundwater simulations (i.e. for acidic soils), this was implemented by assuming a molar formation fraction of 0.47 from fluopicolide, with a molar formation fraction of 1.0 from metabolite M-03 (where ffm FLC→M-03 = 0.53). Where M-03 was not included in the groundwater simulations (i.e. for alkaline soils), the molar formation fraction of M-02 from fluopicolide was set to 1.0.

Table 9.2.4- 13: Summary of modelling endpoints derived for M-02 (PCA) under laboratory conditions (after M-685680-01-1, [redacted] 2020)

Applied compound	Study	Soil	Model selected	$DegT_{50}$ un-normalised (d)	$DegT_{50}$ normalised to 20°C and pF2 (d)
M-02 (PCA)	M-219824-01-1 [redacted] 2003	Abington	SFO	4.4	4.4
		Münster	SFO	3.5	3.5
		Sarotti	SFO	4.4	4.1

Applied compound	Study	Soil	Model selected	$DegT_{50}$ un-normalised (d)	$DegT_{50}$ normalised to 20°C and pF2 (d)
	M-581364-01-1 [redacted] 017	Dollendorf	SFO	1.1	1.1
		[redacted]	SFO	1.1	0.9
		[redacted]	SFO	0.7	0.7
		[redacted]	SFO	0.7	0.7
				Geometric mean	**1.6**

Plant uptake

The plant uptake factor for M-02 was set to **0**. Residues of fluopicolide, M-01, M-02 and other metabolites have been found in different plants in a rotational crop study (M-240707-03-1, [redacted] 2003). M-02 is described as phloem mobile.

Adsorption

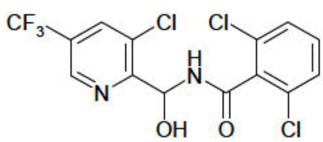
The adsorption and desorption of M-02 (PCA) has been investigated in eight soils (M-219828-01-1, [redacted], 2003; M-686387-01-1, [redacted] 2020b). A summary of the sorption parameters derived for M-02 from these studies is given in Table 9.2.4- 14. A geometric mean K_{OC} value of **5.7 mL/g,** corresponding to a K_{OM} value of **3.3 mL/g** ($K_{OM} = K_{OC} \div 1.724$), was used for M-02 in the modelling, with an arithmetic mean 1/n value of **0.889.**

Table 9.2.4- 14: Summary of sorption parameters derived for M-02 (PCA)

Report reference	Soil	Soil Code	Texture	pH ($CaCl_2$)	OC [%]	K_f (mL/g)	K_{OC} (mL/g)	1/n
M-219828-01-1 [redacted] (2003)	Abington	03/06	Sandy loam	7.2	2.6	0.029	1.1	0.725
	Munster	03/07	Loamy sand	5.4	1.1	0.116	10.5	0.887
	Sarotti	03/10	Silt loam	7.5	1.3	0.082	6.3	0.709
M-686387-01-1 [redacted] (2020b)	LUFA 2.1	2.1	Sand	5.2	0.59	0.047	8.0	1.031
	LUFA 2.3	2.3	Sandy loam	6.2	0.61	0.038	6.2	0.853
	LUFA 5M	5M	Sandy loam	7.1	1.1	0.154	14.0	0.989
	LUFA 6S	6S	Clay loam	7.3	1.78	0.145	8.2	1.105
	Frankenforst	FF	Silt loam	6.9	2.4	0.059	2.5	0.814
						Geometric mean	**5.7**	-
						Arithmetic mean	-	**0.889**

M-03 (AE 0608000)

Physico-Chemical Properties
Structural formula



Common name M-03 (AE 0608000)

Chemical name (IUPAC)	2,6-dichloro-N-{[3-chloro-5-(trifluoromethyl)yridine-2-yl](hydroxy)methyl}benzamide
Molar mass	399.58 g mol^{-1}
Water solubility	10 mg L^{-1} at 20°C (M-223201-01-1, [redacted] 2003)
Vapour pressure	Assumed 0 Pa as worst case for modelling

Degradation in Aerobic Soil

The aerobic degradation and metabolism of M-03 in soil was investigated in the laboratory by M-241188-01-1, [redacted] (2003) and M-565219-01-1, [redacted] (2016a). In addition, M-03 was observed to form from fluopicolide in three studies (M-201230-02-1, [redacted] 2003; M-241052-01-1, [redacted] 2003; M-655056-01-1, [redacted] 2019). A summary of the modelling endpoints derived for M-03 (KCA 7.1.2.1.1/10, M-685680-01-1, [redacted] 2020b) is given in Table 9.2.4- 15.

The half-lives derived indicate that M-03 is transient in alkaline soils, and this metabolite was therefore simulated for acidic conditions only. A geometric mean $DegT_{50}$ value of **17.9 days** was used in the groundwater modelling, derived from acidic soils (pH<6), with an arithmetic mean formation fraction from fluopicolide of **0.53**.

Table 9.2.4- 15: Summary of modelling endpoints derived for M-03 under laboratory conditions (after M-685680-01-1, [redacted], 2020)

Applied compound	Study	Soil	Soil pH	Model selected	$DegT_{50}$ un-normalised (d)	$DegT_{50}$ normalised (d)	ffm from FLC
Fluopicolide	M-201230-02-1, [redacted] 2003	Münster	4.9	SFO	62.6	62.6	0.6086
	M-241052-01-1, [redacted] 2003	Lamberton	5.9	SFO	49.3	54.5	0.5933
	M-655056-01-1, [redacted] 2019	Pikeville	4.5	SFO	29.3	24.4	0.4009
M-03	M-241188-01-1, [redacted] 2003	Abington	7.2	SFO	0.1	0.1	-
		Münster	4.9	DFOP	1000[a]	1000[a]	-
		Pikeville	5.4	DFOP	2.7[b]	2.2[b]	-
		Sarotti	7.1	SFO	0.1	0.08	-
	M-565219-01-1, [redacted] 2016	Brierlow (BL)	5.3	SFO	2.5	2.5	-
		[redacted]	6.0	SFO	0.9	0.9	-
Geometric mean (pH <6)						17.9[c]	-
Arithmetic mean (pH <6)						-	0.53
Geometric mean (soil pH ≥6)						0.19	-
Arithmetic mean (pH ≥6)						-	-

a – DFOP k_2 parameter fixed to conservative default value
b – Pseudo-SFO DT_{50} value derived as $DT_{90}/3.32$ (and normalised if applicable)
c – Geometric mean calculated for Münster soils prior to calculation of overall value

Plant uptake

As the metabolite M-03 (AE 0608000) has not been detected in the plants from rotational crop studies, the uptake factor was set to a conservative default of **0**.

Adsorption

The adsorption and desorption of M-03 has been investigated in three soils by M-221107-01-2, [redacted] (2003). A summary of the sorption parameters derived for M-03 is given in Table 9.2.4-16. A geometric mean K_{OC} value of **106.9 mL/g**, corresponding to a K_{OM} value of **62.0 mL/g** (K_{OM} = K_{OC} ÷ 1.724), was used for M-03 in the modelling, with an arithmetic mean 1/n value of **0.971**.

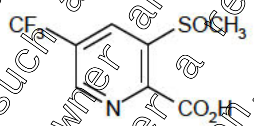
Table 9.2.4- 16: Summary of sorption parameters derived for M-03

Report reference	Soil	Soil Code	Texture	pH ($CaCl_2$)	OC [%]	K_f (mL/g)	K_{OC} (mL/g)	1/n
M-221107-01-2 [redacted] (2003)	Ingleby	02/03	Sandy loam	4.1	3.5	2.86	82	0.961
	Huntlosen	03/04	Loamy sand	4.7	1.7	2.26	133	1.012
	Munster	03/07	Loamy sand	5.4	1.1	1.23	112	0.939
						Geometric mean	**106.9**	
						Arithmetic mean	-	**0.971**

M-05 (AE 1344122)

Physico-Chemical Properties

Structural formula



Common name	M-05 (AE 1344122)
Chemical name (IUPAC)	3-methylsulfinyl-5-(trifluoromethyl)pyridine-2-carboxylic acid
Molar mass	253.2 g mol^{-1}
Water solubility	120000 mg L^{-1} at 20°C (M-507655-01-1, [redacted] 2015)
Vapour pressure	Assumed 0 Pa as worst case for modelling

Degradation in Aerobic Soil

The aerobic degradation and metabolism of M-05 in soil was investigated in the laboratory by M-241410-01-2, [redacted]. (2003a) and M-565223-01-1, [redacted] (2016b). In addition, M-05 was observed to form from M-02 in two studies (M-219824-01-1, [redacted] 2003; M-581364-01-1, [redacted] 2017).

A summary of the modelling endpoints derived for M-05 (KCA 7.1.2.1.1/10, M-685680-01-1, [redacted] 2020) is given in Table 9.2.4-17. A geometric mean $DegT_{50}$ value of **25.2 days** was used in the modelling for M-05, with an arithmetic mean molar formation fraction from M-02 of **0.153**.

Table 9.2.4- 17: Summary of modelling endpoints derived for M-05 under laboratory conditions (after M-685680-01-1, [redacted]., 2020)

Applied compound	Study	Soil	Model selected	$DegT_{50}$ un-normalised (d)	$DegT_{50}$ normalised (d)	ffm from M-02 (PCA)
M-02	M-219824-01-1 [redacted] 2003	Abington	SFO	29.4	29.4	0.2581[a]
		Münster	SFO	172.1	172.1	0.1557[a]
		Sarotti	SFO	45.5	42.3	0.1811[a]
	M-581364-01-1 [redacted] 2017	Dollendorf	SFO	9.3	9.3	0.1528
		[redacted]	SFO	11.2	9.3	0.0859
		[redacted]	SFO	5.6	5.6	0.1438
		[redacted]	SFO	8.1	8.1	0.0918
M-05	M-241410-01-2 [redacted] 2003a	Abington	SFO	62.2	62.2	-
		Münster	SFO	136.1	136.1	-
		Sarotti	SFO	34.9	32.5	-
	M-565223-01-1 [redacted] 2016b	[redacted]	SFO	22.5	22.5	-
		[redacted]	SFO	16.8	16.8	-
		[redacted]	SFO	19.0	19.0	-
				Geometric mean	25.2	
				Arithmetic mean	-	0.153

a – Factored formation fraction: ff M-02-ghost × ff ghost-M-05

Plant uptake

The plant uptake factor for M-05 (AE 1344122) was set to 0. Residues of fluopicolide, M-01, M-02 and other metabolites have been found in different plants in a rotational crop study (M-240707-03-1, [redacted] 2003).

Adsorption

The adsorption and desorption of M-05 has been investigated in seven soils by M-241403-01-2, [redacted] (2003a) and M-587780-01-1, [redacted] (2017). A summary of the sorption parameters derived for M-05 is given in Table 9.2.4- 18. These data indicate that the sorption of M-05 is pH-dependent, with greater sorption observed in acidic soils (pH <7).

As a conservative approach at Tier 1, a geometric mean K_{OC} value of **14.0 mL/g** was used in the modelling, based on alkaline soils (pH ≥7), with a corresponding arithmetic mean 1/n value of **0.942**. A corresponding K_{OM} value of **8.1 mL/g** was calculated by dividing the K_{OC} value by 1.724.

Table 9.2.4- 18: Summary of sorption parameters derived for M-05

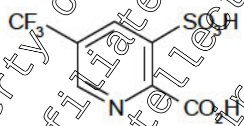
Report reference	Soil	Soil Code	Texture	pH ($CaCl_2$)	OC [%]	K_f (mL/g)	K_{OC} (mL/g)	1/n
M-241403-01-2 [redacted] (2003a)	Abington	n/a	Sandy loam	7.2	2.6	0.294	11	0.883
	Munster	n/a	Loamy sand	5.4	1.1	0.544	49	0.954
	Sarotti	n/a	Silt loam	7.7	1.3	0.218	17	0.918
M-587780-01-1 [redacted] 2017)	[redacted]	331	Sandy loam	5.3	1.9	1.4793	77.9	0.974
		329	Silt loam	6.3	2	0.4915	24.6	0.985

Report reference	Soil	Soil Code	Texture	pH ($CaCl_2$)	OC [%]	K_f (mL/g)	K_{OC} (mL/g)	1/n
	Dollendorf	330	Loam	7.3	4.5	0.6629	14.7	1.025
	[redacted]	327	Loamy sand	6.3	1.6	0.4671	29.2	0.984
Geometric mean (pH <7)							40.7	-
Arithmetic mean (pH <7)							-	0.974
Geometric mean (pH ≥7)							14.0	-
Arithmetic mean (pH ≥7)							-	0.942

M-10 (AE 1344123)

Physico-Chemical Properties

Structural formula



Common name	M-10 (AE 1344123)
Chemical name (IUPAC)	3-sulfo-5-(trifluoromethyl)pyridine-2-carboxylic acid
Molar mass	271.17 g mol^{-1}
Water solubility	100000 mg L^{-1} at 20°C (M-517618-01-1, [redacted] 2015)
Vapour pressure	Assumed 0 Pa as worst case for modelling

Degradation in Aerobic Soil

The aerobic degradation and metabolism of M-10 in soil was investigated in the laboratory by M-241411-01-2, [redacted] (2003b) and M-565224-01-1, [redacted] (2016c). In addition, M-10 was observed to form from M-02 in two studies (M-219824-01-1, [redacted] 2003; M-581364-01-1, [redacted], 2017).

A summary of the modelling endpoints derived for M-10 (KCA 7.1.2.1.1/10, M-685680-01-1, [redacted], 2020) is given in Table 9.2.4- 19. A geometric mean $DegT_{50}$ value of **35.4 days** was used in the modelling for M-10, with an arithmetic mean molar formation fraction from M-02 of **0.129**.

Table 9.2.4- 19: Summary of modelling endpoints derived for M-10 under laboratory conditions (after M-685680-01-1, [redacted] 2020)

Applied compound	Study	Soil	Model selected	$DegT_{50}$ un-normalised (d)	$DegT_{50}$ normalised (d)	ffm from M-02 (PCA)
M-02 (PCA)	M-219824-01-1 [redacted] 2003	Abington	SFO	5.4	5.4	0.1436[a]
		Münster	SFO	1000[b]	1000[a]	0.0335
		Sarotti	SFO	14.6	13.6	0.0796[a]
	M-581364-01-1 [redacted] 2017	Dollendorf	SFO	3.5	3.5	0.1997
		[redacted]	SFO	20.2	16.8	0.1265
		[redacted]	SFO	88.2	88.2	0.1502
		[redacted]	SFO	5.8	5.8	0.1686

Applied compound	Study	Soil	Model selected	$DegT_{50}$ un-normalised (d)	$DegT_{50}$ normalised (d)	ffm from M-02 (PCA)
M-10	[redacted] 2003b	Abington	SFO	31.6	31.6	-
		Münster	SFO	241.9	241.9	-
		Sarotti	SFO	21.3	19.8	-
	M-565224-01-1 [redacted] 2016c	[redacted]	SFO	21.6	21.6	-
		[redacted]	SFO	83.9	83.9	-
		[redacted]	HS	228.8	228.8	-
Geometric mean					35.4	-
Arithmetic mean						0.129

a – Factored formation fraction: ff M-02-ghost × ff ghost-M-05
b – Conservative default value

Plant uptake

As the metabolite M-10 (AE 1344123) has not been detected in the plants from rotational crop studies, the uptake factor was set to a conservative default of **0**.

Adsorption

The adsorption and desorption of M-10 has been investigated in three soils by M-241404-01-2, [redacted] (2003b). A summary of the sorption parameters derived for M-10 is given in Table 9.2.4- 20. A geometric mean K_{OC} value of **1.8 mL/g**, corresponding to a K_{OM} value of **1.1 mL/g** ($K_{OM} = K_{OC} \div 1.724$), was used for M-10 in the modelling, with a default 1/n value of **1.0**.

Table 9.2.4- 20: Summary of sorption parameters derived for M-10

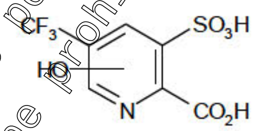
Report reference	Soil	Soil Code	Texture	pH ($CaCl_2$)	OC [%]	K_f (mL/g)	K_{OC} (mL/g)	1/n
M-241404-01-2 [redacted] (2003b)	Abington	n/a	Sandy loam	7.2	2.6	0.003[a]	0.07[a]	n/a
	Munster	n/a	Loamy sand	5.4	1.1	0.09[a]	8.2[a]	n/a
	Sarotti	n/a	Silt loam	7.5	1.3	0.14[a]	10.7[a]	n/a
Geometric mean							1.8	-

a – EFSA value

M-11 and M-12 (AE 1344119 and AE 1344120)

Physico-Chemical Properties

Structural formula



Common name M-11 and M-12 (two isomers; AE 1344119 and AE 1344120)

Chemical name (IUPAC) 6-hydroxy-3-sulfo-5-(trifluoromethyl)pyridine-2-carboxylic acid; 4-hydroxy-3-sulfo-5-(trifluoromethyl)pyridine-2-carboxylic acid

Molar mass 287.17 g mol^{-1}

Water solubility 1000 mg L^{-1} at 20°C (default)

Vapour pressure Assumed 0 Pa as worst case for modelling

Mixture of two isomers M-11:M-12 ≈ 60:40

Degradation in Aerobic Soil

Metabolites M-11/12 were observed to form from M-02 in a study by M-219824-01-1, [redacted] 2003.

A summary of the modelling endpoints derived for M-11/12 (KCA 7.1.2.1.1/10, M-685680-01-1, [redacted]., 2020) is given in Table 9.2.4- 21. A geometric mean $DegT_{50}$ value of **87.6 days** was used in the modelling for M-11/12, with an arithmetic mean molar formation fraction from M-02 of **0.044**.

Additional supporting information for M-11/12 was obtained from inverse model fitting of lysimeter study data (M-687853-01-1, [redacted], 2020b), where an overall ffm value of 0.054 was derived considering a fixed DT_{50} of 87.6 days.

M-11/12 is a mixture of two isomers M-11 and M-12 in the ratio M-11:M-12 ≈ 60:40. PEC_{gw} calculations are conducted for M-11/12 and the results then split in the ratio 60:40 to derive PEC_{gw} values for M-11 and M-12.

Table 9.2.4- 21: Summary of modelling endpoints derived for M-11/12 under laboratory conditions (after M-685680-01-1, [redacted] 2020)

Applied compound	Study	Soil	Model selected	$DegT_{50}$ un-normalised (d)	$DegT_{50}$ normalised (d)	ffm from M-02 (PCA)
M-02 (PCA)	M-219824-01-1, [redacted] 2003	Abington	SFO	31.7	31.7	0.0177
		Münster	SFO	242.5	242.5	0.0711
				Geometric mean	**87.6**	-
				Arithmetic mean		**0.044**

Plant uptake

As the metabolites M-11/M-12 have not been detected in the plants from rotational crop studies, the uptake factor was set to a conservative default of **0**.

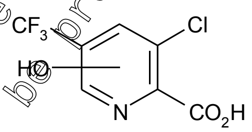
Adsorption

No reliable sorption parameters have been derived for M-11/12. A worst-case K_{OC}/K_{OM} value of **0 mL/g** was therefore used in the groundwater modelling, with a default 1/n value of **1.0**.

M-13 (Fluopicolide-P3)

Physico-Chemical Properties

Structural formula



Common name M-13 (Fluopicolide-P3)

Chemical name (IUPAC) 3-chloro-4-hydroxy-5-(trifluoromethyl)pyridine-2-carboxylic acid; 3-chloro-6-hydroxy-5-(trifluoromethyl)pyridine2-carboxylic acid

Molar mass 241.55 g mol^{-1}

Water solubility	1000 mg L^{-1} at 20°C (default)
Vapour pressure	Assumed 0 Pa as worst case for modelling

Degradation in Aerobic Soil

Metabolite M-13 was observed to form from M-02 in a study by M-219824-01-1, [redacted] 2003.

A summary of the modelling endpoints derived for M-13 (KCA 7.1.2.1.1/10, M-685680-01-1, [redacted], 2020) is given in Table 9.2.4- 22. A geometric mean $DegT_{50}$ value of **20.7 days** was used in the modelling for M-13, with an arithmetic mean molar formation fraction from M-02 of **0.049**.

Additional supporting information for M-13 was obtained from inverse model fitting of lysimeter study data (M-687853-01-1, [redacted], 2020b), where an overall ffm value of 0.023 was derived considering a fixed DT_{50} of 20.7 days.

Table 9.2.4- 22: Summary of modelling endpoints derived for M-13 under laboratory conditions (after M-685680-01-1, [redacted] 2020)

Applied compound	Study	Soil	Model selected	$DegT_{50}$ un-normalised (d)	$DegT_{50}$ normalised (d)	ffm from M-02 (PCA)
M-02 (PCA)	M-219824-01-1 [redacted] 2003	Abington	SFO	13.3	13.3	0.0667
		Münster	SFO	48.4	48.4	0.0286
		Sarotti	SFO	14.8	13.8	0.0507
				Geometric mean	**20.7**	-
				Arithmetic mean	-	**0.049**

Plant uptake

As the metabolite M-13 has not been detected in the plants from rotational crop studies, the uptake factor was set to a conservative default of **0**.

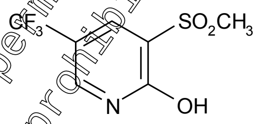
Adsorption

No reliable sorption parameters have been derived for M-13. A worst-case K_{OC}/K_{OM} value of **0 mL/g** was therefore used in the groundwater modelling, with a default 1/n value of **1.0**.

M-14 (AE 1388273)

Physico-Chemical Properties

Structural formula



Common name	M-14 (AE 1388273)
Chemical name (IUPAC)	3-Methylsulfonyl-5-(trifluoromethyl)-1H-pyridin-2-one
Molar mass	241.19 g mol^{-1}
Water solubility	15800 mg L^{-1} at 20°C (M-505731-01-1, [redacted] 2014)

Vapour pressure Assumed 0 Pa as worst case for modelling

Degradation in Aerobic Soil

The aerobic degradation and metabolism of M-14 in soil was investigated in the laboratory by M-234149-01-2, [redacted] (2003). In addition, M-14 was observed to form from M-05 in a study by M-241410-01-2, [redacted] (2003a).

A summary of the modelling endpoints derived for M-14 (KCA 7.1.2.1.1/10, M-685680-01-1, [redacted] ., 2020) is given in Table 9.2.4- 23. A geometric mean $DegT_{50}$ value of **9.4 days** was used in the modelling for M-14, along with a formation fraction of **0.559** from M-05 and **0.021** from M-02 (PCA). These values represent overall formation fractions for M-14 *via* metabolite M-20, which was not included in the groundwater simulations.

Table 9.2.4- 23: Summary of modelling endpoints derived for M-14 under laboratory conditions (after M-685680-01-1, [redacted] 2020)

Applied compound	Study	Soil	Model selected	$DegT_{50}$ un-normalised (d)	$DegT_{50}$ normalised (d)	ffm from M-20[a]
M-05	M-241410-01-2 [redacted] 2003a	Abington	SFO	16.4	16.4	1
		Sarotti	SFO	21.7	20.1	1
M-14	M-234149-01-2 [redacted] 2003	Abington	SFO	4.9	4.9	-
		Münster	SFO	8.2	8.2	-
		Sarotti (SLS)	SFO	5.8	5.4	-
				Geometric mean	**9.4**	-
				Arithmetic mean	-	**1**

a – Metabolite M-20 is formed from M-05 with an arithmetic mean formation fraction of 0.559, and from M-02 (PCA) with an arithmetic mean formation fraction of 0.021 (M-685680-01-1, [redacted] 2020). As shown above, metabolite M-14 is formed from M-20 with a formation fraction of 1.0. The overall formation fractions of M-14 were therefore set to 0.559 and 0.021, respectively, from M-05 from M-02. Metabolite M-20 was not included in the simulations.

Plant uptake

As the metabolite M-14 (AE 1388273) has not been detected in the plants from rotational crop studies, the uptake factor was set to a conservative default of **0**.

Adsorption

The adsorption and desorption of M-14 has been investigated by OECD 121 and in nine soils by M-223531-01-2, [redacted] (2004), M-572869-01-1, [redacted] (2016) and M-686386-01-1, [redacted] (2020c). A summary of the sorption parameters derived for M-14 is given in Table 9.2.4- 24.

A geometric mean K_{OC} value of **9.9 mL/g**, corresponding to a K_{OM} value of **5.7 mL/g** ($K_{OM} = K_{OC} \div 1.724$), was used for M-14 in the modelling, with an arithmetic mean 1/n value of **0.942**.

Table 9.2.4- 24: Summary of sorption parameters derived for M-14

Report reference	Soil	Texture	pH ($CaCl_2$)	OC [%]	K_f (mL/g)	K_{OC} (mL/g)	1/n
M-223531-01-2 [redacted] (2004)	n/a	n/a	6	n/a	n/a	1.28*	n/a
	n/a	n/a	2.5	n/a	n/a	2.13*	n/a
M-572869-01-1 [redacted] (2016)	[redacted]	Loam	5	1.8	0.1765	9.8	0.964
	[redacted]	Silt loam	6.1	1.9	0.2834	14.9	0.937
	Dollendorf II	Clay loam	7.3	4.8	0.5601	11.7	0.941
	[redacted]	Sandy loam	6.5	1.5	0.1848	12.3	0.956

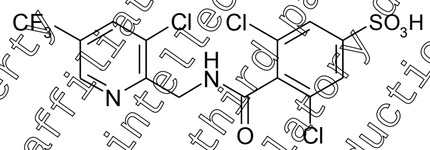
Report reference	Soil	Texture	pH ($CaCl_2$)	OC [%]	K_f (mL/g)	K_{OC} (mL/g)	1/n
M-686386-01-1 [redacted] (2020c)	LUFA 2.1	Sand	5.2	0.59	0.031	5.3	1.022
	LUFA 2.3	Sandy loam	6.2	0.61	0.028	4.6	0.908
	LUFA 5M	Sandy loam	7.1	1.1	0.117	10.7	0.892
	LUFA 6S	Clay loam	7.3	1.78	0.3	16.9	0.936
	Frankenforst	Silt loam	6.9	2.4	0.238	9.9	0.923
					Geometric mean	**9.9**	**-**
					Arithmetic mean	**-**	**0.942**

* Excluded from calculations

M-15 (AE 1413903)

Physico-Chemical Properties

Structural formula



Common name	M-15 (AE 1413903; BCS-BA91072)
Chemical name (IUPAC)	3,5-dichloro-4-({[3-chloro-5-(trifluoromethyl)yridine-2-yl]methyl}carbamoyl)benzenesulfonic acid
Molar mass	463.64 g mol^{-1}
Water solubility	160000 mg L^{-1} at 20°C (M-633477-01-1, [redacted] 2018)
Vapour pressure	Assumed 0 Pa as worst case for modelling

Degradation in Aerobic Soil

The aerobic degradation and metabolism of M-15 in soil was investigated in the laboratory by M-585202-01-1, [redacted] (2016d).

A summary of the modelling endpoints derived for M-15 (KCA 7.1.2.1.1/10, M-685680-01-1, [redacted]) is given in Table 9.2.4- 25. A geometric mean DegT$_{50}$ value of **145 days** was used in the modelling for M-15.

A molar formation fraction of **0.0016** from fluopicolide was estimated by inverse modelling of a lysimeter study (M-687165-01-1, [redacted], 2020c) based on a fixed DT$_{50}$ of 145 days.

Table 9.2.4- 25: Summary of modelling endpoints derived for M-15 under laboratory conditions (after M-685680-01-1, [redacted]., 2020)

Applied compound	Study	Soil	Model selected	$DegT_{50}$ un-normalised (d)	$DegT_{50}$ normalised (d)
M-15	M-585202-01-1 [redacted] 2016d	[redacted]	DFOP	172.5[a]	172.5[a]
		[redacted]	DFOP	137.9[a]	137.9[a]
		[redacted]	DFOP	139.6[a]	139.6[a]
		[redacted]	DFOP	132.4[a]	132.4[a]
				Geometric mean	**145**

a – Pseudo-SFO value based on slow phase of decline (calculated as $\ln(2)/k_2$)

Plant uptake

As the metabolite M-15 (AE 1413903) has not been detected in the plants from rotational crop studies, the uptake factor was set to a conservative default of **0**.

Adsorption

The adsorption and desorption of M-15 has been investigated in four soils by M-585208-01-1, [redacted] (2017). A summary of the sorption parameters derived for M-15 is given in Table 9.2.4- 26.

A geometric mean K_{OC} value of **18.8 mL/g**, corresponding to a K_{OM} value of **10.9 mL/g** ($K_{OM} = K_{OC} \div 1.724$), was used for M-15 in the modelling, with an arithmetic mean 1/n value of **0.937**.

Table 9.2.4- 26: Summary of sorption parameters derived for M-15

Report reference	Soil	Texture	pH ($CaCl_2$)	OC [%]	K_f (mL/g)	K_{OC} (mL/g)	1/n
M-585208-01-1 [redacted] (2017)	[redacted]	loamy sand	5.4	1.8	0.431	23.9	0.953
	Dollendorf II	clay loam	7.3	5.2	0.728	14.0	0.920
	[redacted]	silt loam	6.0	2.4	0.500	20.8	0.923
	[redacted]	sandy loam	5.1	2.1	0.380	18.1	0.950
					Geometric mean	**18.8**	-
					Arithmetic mean	-	**0.937**

* Excluded from calculations

II. Results and Discussion

Modelling reports utilising the core info document should have the substance data presented in the form as shown in Table 9.2.4- 27 and Table 9.2.4- 28.

Table 9.2.4- 27: Compound input parameters for fluopicolide and its metabolites – without aged sorption

Parameter	Unit	Fluopicolide	M-01 (AE C653711)	M-02 (AE C657188)	M-03* (AE 0608000)	M-05 (AE 1344122)
Common						
Molar mass	(g/mol)	383.59	190.03	225.56	399.58	253.2
Solubility	(mg/L)	2.8	2220	115000	10	120000
at temp.	(°C)	20	20	20	20	20
Vapour pressure	(Pa)	0 (default)	0 (default)	0 (default)	0 (default)	0 (default)
at temp.	(°C)	20	20	20	20	20
Freundlich exponent	(-)	0.888	0.914	0.889	0.971	0.942
Plant uptake factor	(-)	0.5	0.5	0	0	0
Walker exponent	(-)	0.7	0.7	0.7	0.7	0.7
PEARL parameters						
Substance code	(-)	FLC	M01	M02	M03	M05
DT50	(days)	182.0	146.0	1.6	17.9	25.2
Molar activ. energy	(kJ/mol)	65.4	65.4	65.4	65.4	65.4
Kom	(mL/g)	155.3	14.0	3.3	62.0	8.1
PELMO parameters						
Substance code	(-)	Fluopicolide	M-01	M-02	M-03	M-05
Rate constant	(1/day)	0.003809	0.004748	0.433217	0.038723	0.027506
Q10	(-)	2.58	2.58	2.58	2.58	2.58
Koc	(mL/g)	267.7	241	5.7	106.9	14.0
MACRO parameters						
Substance code	(-)	Fluopicolide	-	-	-	-
Exponent moisture	(-)	0.49	0.49	0.49	0.49	0.49
Exponent temperature	(1/K)	0.0948	0.0948	0.0948	0.0948	0.0948

Parameter	Unit	M-10 (AE 1344123)	M-11/12 (AE 1344119/ AE 1344120)	M-13 (Fluopicolide-P3)	M-14 (AE 1388273)	M-15 (AE 1413903)
Common						
Molar mass	(g/mol)	271.17	287.17	241.55	241.19	463.64
Solubility	(mg/L)	100000	1000	1000	15800	160000
at temp.	(°C)	20	20	20	20	20
Vapour pressure	(Pa)	0 (default)	0 (default)	0 (default)	0 (default)	0 (default)
at temp.	(°C)	20	20	20	20	20
Freundlich exponent	(-)	1.0	1.0	1.0	0.942	0.937
Plant uptake factor	(-)	0	0	0	0	0
Walker exponent	(-)	0.7	0.7	0.7	0.7	0.7
PEARL parameters						
Substance code	(-)	M10	M11-2	M13	M14	M15
DT50	(days)	35.4	87.6	20.7	9.4	145.0
Molar activ. energy	(kJ/mol)	65.4	65.4	65.4	65.4	65.4
Kom	(mL/g)	1.1	0	0	5.7	10.9
PELMO parameters						
Substance code	(-)	M-10	M-11/12	M-13	M-14	M-15
Rate constant	(1/day)	0.019580	0.007913	0.033485	0.073739	0.004780
Q10	(-)	2.58	2.58	2.58	2.58	2.58
Koc	(mL/g)	1.8	0	0	9.9	18.8
MACRO parameters						
Substance code	(-)	-	-	-	-	-
Exponent moisture	(-)	0.49	0.49	0.49	0.49	0.49
Exponent temperature	(1/K)	0.0948	0.0948	0.0948	0.0948	0.0948

* Metabolite M-03 not simulated in alkaline soils

Table 9.2.4- 28: Compound input parameters for fluopicolide and metabolites – with aged sorption

Parameter	Unit	Fluopicolide	M-01 (AE C653711)	M-02 (AE C657188)	M-03* (AE 0608000)	M-05 (AE 1344122)
Common						
Molar mass	(g/mol)	383.59	190.03	225.56	399.58	253.2
Solubility	(mg/L)	2.8	2220	115000	10	120000
at temp.	(°C)	20	20	20	20	20
Vapour pressure	(Pa)	0 (default)	0 (default)	0 (default)	0 (default)	0 (default)
at temp.	(°C)	20	20	20	20	20
Freundlich exponent	(-)	0.888	0.914	0.889	0.971	0.942
Plant uptake factor	(-)	0.5	0.5	0	0	0
Walker exponent	(-)	0.7	0.7	0.7	0.7	0.7
PEARL parameters						
Substance code	(-)	FLC	M01	M02	M03	M05
DT50	(days)	121.0	146.0	1.6	17.9	25.2
Molar activ. energy	(kJ/mol)	65.4	65.4	65.4	65.4	65.4
Kom	(mL/g)	155.3	14.0	3.3	62.0	8.1
k_{des}	(1/day)	0.0356	0	0	0	0
F_{ne}	(-)	0.508	0	0	0	0
PELMO parameters						
Substance code	(-)	Fluopicolide	M-01	M-02	M-03	M-05
Rate constant	(1/day)	0.005728	0.004748	0.435217	0.038723	0.027506
Q10	(-)	2.58	2.58	2.58	2.58	2.58
Koc	(mL/g)	267.7	24.1	5.7	106.9	14.0
MACRO parameters						
Substance code	(-)	Fluopicolide	-	-	-	-
Exponent moisture	(-)	0.49	0.49	0.49	0.49	0.49
Exponent temperature	(1/K)	0.0948	0.0948	0.0948	0.0948	0.0948
Parameter	**Unit**	**M-10 (AE 1344123)**	**M-11/12 (AE 1344119/ AE 1344120)**	**M-13 (Fluopicolide-P3)**	**M-14 (AE 1388273)**	**M-15 (AE 1413903)**
Common						
Molar mass	(g/mol)	271.17	287.17	241.55	241.19	463.64
Solubility	(mg/L)	100000	1000	1000	15800	160000
at temp.	(°C)	20	20	20	20	20
Vapour pressure	(Pa)	0 (default)	0 (default)	0 (default)	0 (default)	0 (default)
at temp.	(°C)	20	20	20	20	20
Freundlich exponent	(-)	1.0	1.0	1.0	0.942	0.937
Plant uptake factor	(-)	0	0	0	0	0
Walker exponent	(-)	0.7	0.7	0.7	0.7	0.7
PEARL parameters						
Substance code	(-)	M10	M11-2	M13	M14	M15
DT50	(days)	35.4	87.6	20.7	9.4	145.0
Molar activ. energy	(kJ/mol)	65.4	65.4	65.4	65.4	65.4
Kom	(mL/g)	1.1	0	0	5.7	10.9
k_{des}	(1/day)	0	0	0	0	0
F_{ne}	(-)	0	0	0	0	0
PELMO parameters						
Substance code	(-)	M-10	M-11/12	M-13	M-14	M-15
Rate constant	(1/day)	0.019580	0.007913	0.033485	0.073739	0.004780
Q10	(-)	2.58	2.58	2.58	2.58	2.58
Koc	(mL/g)	1.8	0	0	9.9	18.8

MACRO parameters						
Substance code	(-)	-	-	-	-	-
Exponent moisture	(-)	0.49	0.49	0.49	0.49	0.49
Exponent temperature	(1/K)	0.0948	0.0948	0.0948	0.0948	0.0948

* Metabolite M-03 not simulated in alkaline soils

III. Conclusion

For the groundwater risk assessment of fluopicolide and its metabolites M-01, M-02, M-03, M-05, M-10, M-11/M-12, M-13, M-14, and M-15 the input parameters presented in this summary should be used in all calculations.

<u>Assessment and conclusion by applicant:</u>

This core modelling report was conducted according to FOCUS Degradation Kinetics (2006, 2014) and is considered valid to assess trigger and modelling endpoints for fluopicolide and its metabolites in groundwater under laboratory conditions.

Data Point:	KCP 9.2.4.1/07
Report Author:	[redacted]
Report Year:	2020
Report Title:	Fluopicolide (FLC) and metabolites: PECgw FOCUS PEARL, PELMO and MACRO - Use as foliar application in potatoes in Europe
Report No:	VC/19/041N
Document No:	M-688510-01-1
Guideline(s) followed in study:	not applicable
Deviations from current test guideline:	Not applicable
Previous evaluation:	No, not previously submitted
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

Executive Summary

Predicted environmental concentrations of the active substance fluopicolide and its metabolites M-01, M-02, M-03, M-05, M-10, M-11/M-12, M-13, M-14, and M-15 in in groundwater recharge (PECgw) were calculated for the use in potatoes in Europe, using the simulation models FOCUS PEARL 4.4.4 (Leistra *et al.* 2001), FOCUS PELMO 5.5.3 (Jene 1998; Klein 1995, 1999, 2011), and FOCUS MACRO 5.5.4 (Jarvis 1994; Jarvis and Larsbo 2012). PECgw were evaluated as the 80[th] percentile of the mean annual leachate concentration at 1 m soil depth. Model parameters and scenarios consisting of weather, soil and crop data were used as proposed by FOCUS (2014b).

I. Materials and Methods

Detailed application parameters are presented in Table 9.2.4- 29.

Table 9.2.4- 29: Application data of fluopicolide according to the use pattern in Europe

Individual crop	FOCUS crop	Rate g/ha	Interval (days)	Plant interception (%)	BBCH stage (-)	Amount reaching soil g/ha
Potatoes 1:2 years	Potatoes	4 x 100	7	60 - 85	21-89	40 - 15
Potatoes 1:3 years	Potatoes	4 x 100	7	60 - 85	21-89	40 - 15
Potatoes 1:1 years	Potatoes	3 x 100	7	60 - 85	21-89	40 - 15
Potatoes 1:2 years	Potatoes	3 x 100	7	60 - 85	21-89	40 - 15
Potatoes 1:3 years	Potatoes	3 x 100	7	60 - 85	21-89	40 - 15
Potatoes 1:1 years	Potatoes	2 x 100	7	60 - 85	21-89	40 - 15
Potatoes 1:2 years	Potatoes	2 x 100	7	60 - 85	21-89	40 - 15
Potatoes 1:3 years	Potatoes	2 x 100	7	60 - 85	21-89	40 - 15
Potatoes 1:1 years	Potatoes	1 x 100	-	60 - 85	21-89	40 - 15
Potatoes 1:2 years	Potatoes	1 x 100	-	60 - 85	21-89	40 - 15
Potatoes 1:3 years	Potatoes	1 x 100	-	60 - 85	21-89	40 - 15

The calculations were based on the maximum intended application rate together with the maximum intended number of applications per season and the minimum interval between applications (where applicable). Evaluations were conducted for annual, 1:2 year and 1:3 year crop rotations.

The application dates for this assessment were set with the help of the tool AppDate (Klein 2018), which proposes dates for specific crop stages (given as BBCH code) based on the crop development as defined in the FOCUS model scenarios for groundwater and surface water.

Due to the wide application window (BBCH 21-89), simulations for both Early (after emergence) and Late (before harvest) timings were evaluated (Table 9.2.4- 30).

For potatoes, BBCH21 is on average reached 19 days after crop emergence according to AppDate. Therefore, applications for the Early window were timed to start 19 days after emergence i.e. timed at 19, 26, 33 and 40 days after emergence for the 4x application GAP.

BBCH89 is on average reached 2 days before harvest according to AppDate. Therefore, applications for the Late window were timed to end 2 days before harvest i.e. timed at 23, 16, 9 and 2 days before harvest for the 4x application GAP.

Table 9.2.4- 30: Application timing and plant intercept data of fluopicolide

Individual crop / rotation	Window	Application timing	Rate g/ha	Interval (days)	Plant interception (%)	Amount reaching soil g/ha
Potatoes 1:2 years	Early	1st application 19 days after emergence	4 x 100	7	60/60/85/85	40/40/15/15
Potatoes 1:2 years	Late	Last application 2 days before harvest	4 x 100	7	85/85/85/85	15/15/15/15
Potatoes 1:3 years	Early	1st application 19 days after emergence	4 x 100	7	60/60/85/85	40/40/15/15
Potatoes 1:3 years	Late	Last application 2 days before harvest	4 x 100	7	85/85/85/85	15/15/15/15
Potatoes 1:1 years	Early	1st application 19 days after emergence	3 x 100	7	60/60/85	40/40/15
Potatoes 1:1 years	Late	Last application 2 days before harvest	3 x 100	7	85/85/85	15/15/15
Potatoes 1:2 years	Early	1st application 19 days after emergence	3 x 100	7	60/60/85	40/40/15
Potatoes 1:2 years	Late	Last application 2 days before harvest	3 x 100	7	85/85/85	15/15/15
Potatoes 1:3 years	Early	1st application 19 days after emergence	3 x 100	7	60/60/85	40/40/15
Potatoes 1:3 years	Late	Last application 2 days before harvest	3 x 100	7	85/85/85	15/15/15
Potatoes 1:1 years	Early	1st application 19 days after emergence	2 x 100	7	60/60	40/40
Potatoes 1:1 years	Late	Last application 2 days before harvest	2 x 100	7	85/85	15/15
Potatoes 1:2 years	Early	1st application 19 days after emergence	2 x 100	7	60/60	40/40
Potatoes 1:2 years	Late	Last application 2 days before harvest	2 x 100	7	85/85	15/15
Potatoes 1:3 years	Early	1st application 19 days after emergence	2 x 100	7	60/60	40/40
Potatoes 1:3 years	Late	Last application 2 days before harvest	2 x 100	7	85/85	15/15
Potatoes 1:1 years	Early	1st application 19 days after emergence	1 x 100	-	60	40
Potatoes 1:1 years	Late	Last application 2 days before harvest	1 x 100	-	85	15
Potatoes 1:2 years	Early	1st application 19 days after emergence	1 x 100	-	60	40
Potatoes 1:2 years	Late	Last application 2 days before harvest	1 x 100	-	85	15
Potatoes 1:3 years	Early	1st application 19 days after emergence	1 x 100	-	60	40
Potatoes 1:3 years	Late	Last application 2 days before harvest	1 x 100	-	85	15

Input parameters for PEC groundwater modelling are fully evaluated and derived in the Core Modelling Information document (KCP 9.2.4/06) and are summarised in Table 9.2.4- 31 and Table 9.2.4- 32.

Table 9.2.4- 31: Input parameters related to active substance fluopicolide and metabolites for PEC$_{gw}$ calculations – with aged-sorption

Parameter	Unit	Fluopicolide	M-01 (AE C653711)	M-02 (AE C657188)	M-03* (AE 0608000)	M-05 (AE 1344122)
Molar mass	(g/mol)	383.59	190.03	225.56	399.58	253.2
Solubility	(mg/L)	2.8	2220	115000	10	120000
at temp.	(°C)	20	20	20	20	20
Vapour pressure	(Pa)	0 (default)	0 (default)	0 (default)	0 (default)	0 (default)
at temp.	(°C)	20	20	20	20	20
Freundlich exponent	(-)	0.888	0.914	0.889	0.971	0.942
Plant uptake factor	(-)	0.5	0.5	0	0	0
Walker exponent	(-)	0.7	0.7	0.7	0.7	0.7
PEARL parameters						
Substance code	(-)	FLC	M01	M02	M03	M05
DT50	(days)	121.0	146.0	1.6	17.9	25.2
Molar activ. energy	(kJ/mol)	65.4	65.4	65.4	65.4	65.4
Kom	(mL/g)	155.3	14.0	3.3	62.0	8.1
k_{des}	(1/day)	0.0356	0	0	0	0
F_{ne}	(-)	0.508	0	0	0	0
PELMO parameters						
Substance code	(-)	Fluopicolide	M-01	M-02	M-03	M-05
Rate constant	(1/day)	0.005728	0.004748	0.433217	0.038723	0.027506
Q10	(-)	2.58	2.58	2.58	2.58	2.58
Koc	(mL/g)	267.7	24.1	5.7	106.9	14.0
MACRO parameters						
Substance code	(-)	Fluopicolide	-	-	-	-
Exponent moisture	(-)	0.49	0.49	0.49	0.49	0.49
Exponent temp	(1/K)	0.0948	0.0948	0.0948	0.0948	0.0948
Parameter	**Unit**	**M-10 (AE 1344123)**	**M-11/12 (AE 1344119/ AE 1344120)**	**M-13 (Fluopicolide-P3)**	**M-14 (AE 1388273)**	**M-15 (AE 1413903)**
Molar mass	(g/mol)	271.17	287.17	241.55	241.19	463.64
Solubility	(mg/L)	100000	1000	1000	15800	160000
at temp.	(°C)	20	20	20	20	20
Vapour pressure	(Pa)	0 (default)	0 (default)	0 (default)	0 (default)	0 (default)
at temp.	(°C)	20	20	20	20	20
Freundlich exponent	(-)	1.0	1.0	1.0	0.942	0.937
Plant uptake factor	(-)	0	0	0	0	0
Walker exponent	(-)	0.7	0.7	0.7	0.7	0.7
PEARL parameters						
Substance code	(-)	M10	M11-2	M13	M14	M15
DT50	(days)	35.4	87.6	20.7	9.4	145.0
Molar activ. energy	(kJ/mol)	65.4	65.4	65.4	65.4	65.4
Kom	(mL/g)	1.1	0	0	5.7	10.9
k_{des}	(1/day)	0	0	0	0	0
F_{ne}	(-)	0	0	0	0	0
PELMO parameters						
Substance code	(-)	M-10	M-11/12	M-13	M-14	M-15
Rate constant	(1/day)	0.019580	0.007913	0.033485	0.073739	0.004780
Q10	(-)	2.58	2.58	2.58	2.58	2.58
Koc	(mL/g)	1.8	0	0	9.9	18.8
MACRO parameters						
Substance code	(-)	-	-	-	-	-
Exponent moisture	(-)	0.49	0.49	0.49	0.49	0.49
Exponent temp	(1/K)	0.0948	0.0948	0.0948	0.0948	0.0948

* Metabolite M-03 not simulated in alkaline soils

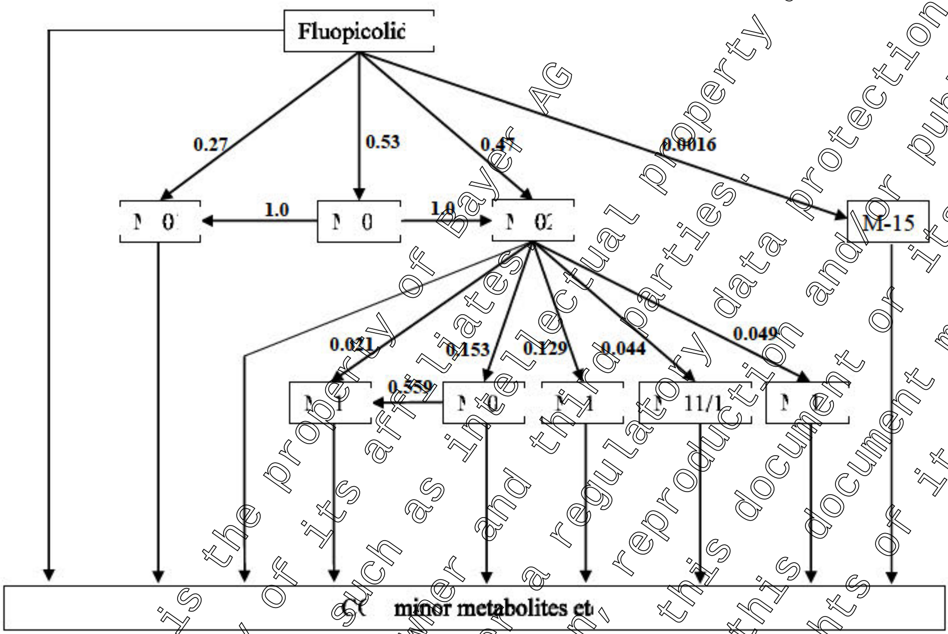
Table 9.2.4- 32: Input parameters related to active substance fluopicolide and metabolites for PECgw calculations – without aged-sorption

Parameter	Unit	Fluopicolide	M-01 (AE C653711)	M-02 (AE C657188)	M-03* (AE 0608000)	M-05 (AE 1344122)
Molar mass	(g/mol)	383.59	190.03	225.56	399.58	253.2
Solubility	(mg/L)	2.8	2220	115000	10	120000
at temp.	(°C)	20	20	20	20	20
Vapour pressure	(Pa)	0 (default)	0 (default)	0 (default)	0 (default)	0 (default)
at temp.	(°C)	20	20	20	20	20
Freundlich exponent	(-)	0.888	0.914	0.889	0.971	0.942
Plant uptake factor	(-)	0.5	0.5	0	0	0
Walker exponent	(-)	0.7	0.7	0.7	0.7	0.7
PEARL parameters						
Substance code	(-)	FLC	M01	M02	M03	M05
DT50	(days)	182.0	146.0	1.6	17.9	25.2
Molar activ. energy	(kJ/mol)	65.4	65.4	65.4	65.4	65.4
Kom	(mL/g)	155.3	14.0	3.3	62.0	8.1
PELMO parameters						
Substance code	(-)	Fluopicolide	M-01	M-02	M-03	M-05
Rate constant	(1/day)	0.003809	0.004748	0.433217	0.038723	0.027506
Q10	(-)	2.58	2.58	2.58	2.58	2.58
Koc	(mL/g)	267.7	24.4	5.7	106.9	14.0
MACRO parameters						
Substance code	(-)	Fluopicolide	-	-	-	-
Exponent moisture	(-)	0.49	0.49	0.49	0.49	0.49
Exponent temperature	(1/K)	0.0948	0.0948	0.0948	0.0948	0.0948
Parameter	**Unit**	**M-10 (AE 1344123)**	**M-11/12 (AE 1344119/ AE 1344120)**	**M-13 (Fluopicolide-P3)**	**M-14 (AE 1388273)**	**M-15 (AE 1413903)**
Molar mass	(g/mol)	271.17	287.17	241.55	241.19	463.64
Solubility	(mg/L)	100000	1000	1000	15800	160000
at temp.	(°C)	20	20	20	20	20
Vapour pressure	(Pa)	0 (default)	0 (default)	0 (default)	0 (default)	0 (default)
at temp.	(°C)	20	20	20	20	20
Freundlich exponent	(-)	1.0	1.0	1.0	0.942	0.937
Plant uptake factor	(-)	0	0	0	0	0
Walker exponent	(-)	0.7	0.7	0.7	0.7	0.7
PEARL parameters						
Substance code	(-)	M10	M11-2	M13	M14	M15
DT50	(days)	35.4	87.6	20.7	9.4	145.0
Molar activ. energy	(kJ/mol)	65.4	65.4	65.4	65.4	65.4
Kom	(mL/g)	1.1	0	0	5.7	10.9
PELMO parameters						
Substance code	(-)	M-10	M-11/12	M-13	M-14	M-15
Rate constant	(1/day)	0.019580	0.007913	0.033485	0.073739	0.004780
Q10	(-)	2.58	2.58	2.58	2.58	2.58
Koc	(mL/g)	1.8	0	0	9.9	18.8
MACRO parameters						
Substance code	(-)	-	-	-	-	-
Exponent moisture	(-)	0.49	0.49	0.49	0.49	0.49
Exponent temperature	(1/K)	0.0948	0.0948	0.0948	0.0948	0.0948

* Metabolite M-03 not simulated in alkaline soils

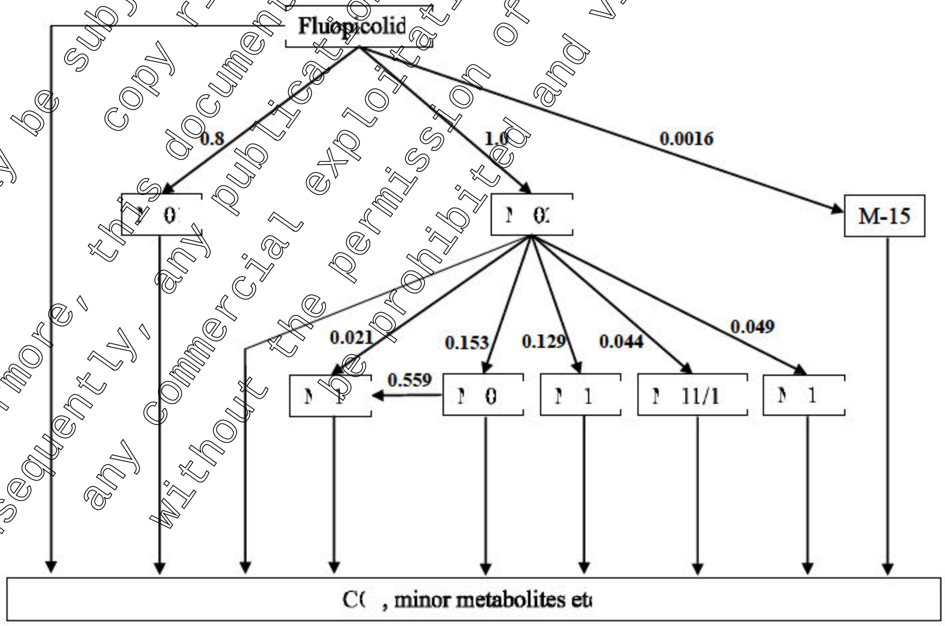
In acidic soils, the principle breakdown of fluopicolide in soil proceeds via formation of the M-03 metabolite, which splits to form the M-01 and M-02 metabolites, with M-01 and M-02 additionally being formed direct from fluopicolide [Figure 9.2.4- 6].

Figure 9.2.4- 5: Degradation pathway for fluopicolide in acidic soils



In alkaline soils, degradation of M-03 is very rapid (DT_{50} < 1day) and no kinetic formation information can be derived. Therefore, simulations for alkaline soil conditions are made assuming only direct formation of M-01 and M-02 from fluopicolide [Figure 9.2.4- 7].

Figure 9.2.4- 6: Degradation pathway for fluopicolide in alkaline soils



These two pathways can be fully parameterised directly in FOCUS PEARL 4.4.4. However, due to the pathway limitations in FOCUS PELMO 5.5.3, three separate evaluations are required for each. Aged-sorption is significant for fluopicolide, and thus two sets of evaluations are conducted – with/without the use of aged-sorption. Thus, for PEARL four sets of model evaluations are conducted per GAP, whereas twelve sets of model evaluations are required for PELMO.

Table 9.2.4- 33: Degradation pathway related parameters for fluopicolide and its metabolites

Degradation fraction from → to (-) (FOCUS PEARL): **acidic soils**	FLC → M01: 0.27 FLC → M02: 0.47 FLC → M03: 0.53 FLC → M15: 0.0016 M03 → M01: 1.0 M03 → M02: 1.0 M02 → M05: 0.153 M02 → M10: 0.129 M02 → M11-2: 0.044 M02 → M13: 0.049 M02 → M14: 0.021 M05 → M14: 0.559
Degradation fraction from → to (-) (FOCUS PEARL): **alkaline soils**	FLC → M01: 0.8 FLC → M02: 1.0 FLC → M15: 0.0016 M02 → M05: 0.153 M02 → M10: 0.129 M02 → M11-2: 0.044 M02 → M13: 0.049 M02 → M14: 0.021 M05 → M14: 0.559
Partial DT_{50}/Degradation rate from → to (day or 1/day) (FOCUS PELMO)[a]: **acidic soils**	Pathway 1: Active Substance → M-02: 387.234 / 0.0017900 Active Substance → M-03: 343.396 / 0.0020190 Active Substance (TDS) → M-02: 257.447 / 0.0026920 Active Substance (TDS) → M-03: 228.302 / 0.0030360 Active Substance → BR/CO2: 0 M-03 → M-02: 17.9 / 0.0387230 M-02 → M-05: 10.458 / 0.0662790 M-02 → M-10: 12.403 / 0.0558850 M-02 → M-14: 76.190 / 0.0090980 M-02 → BR/CO2: 2.296 / 0.3018930 M-05 → M-14: 45.081 / 0.0153760 M-05 → BR/CO2: 57.143 / 0.0121300 M-10 → BR/CO2: 35.4 / 0.0195800 M-14 → BR/CO2: 9.4 / 0.0737390 Pathway 2: Active Substance → M-02: 387.234 / 0.0017900 Active Substance → M-03: 343.396 / 0.0020190 Active Substance (TDS) → M-02: 257.447 / 0.0026920 Active Substance (TDS) → M-03: 228.302 / 0.0030360 Active Substance → BR/CO2: 0 M-03 → M-02: 17.9 / 0.0387230 M-02 → M-11/12: 36.364 / 0.0190610 M-02 → M-13: 32.653 / 0.0212280 M-02 → BR/CO2: 1.764 / 0.3929410 M-11/12 → BR/CO2: 87.6 / 0.0079130 M-13 → BR/CO2: 20.7 / 0.0737390

	Pathway 3: Active Substance → M-01: 674.074 / 0.0010280 Active Substance → M-03: 343.396 / 0.0020190 Active Substance → M-15: 113750 / 6.09E-06 Active Substance → BR/CO2: 917.339 / 0.000756 Active Substance (TDS) → M-01: 448.148 / 0.0015470 Active Substance (TDS) → M-03: 228.302 / 0.0030360 Active Substance (TDS) → M-15: 75625 / 9.17E-06 Active Substance (TDS) → BR/CO2: 609.879 / 0.0011370 M-03 → M-01: 17.9 / 0.0387230 M-01 → BR/CO2: 146 / 0.0047480 M-15 → BR/CO2: 145 / 0.0047800
Partial DT_{50}/Degradation rate from → to (day or 1/day) (FOCUS PELMO)[a]: **alkaline soils**	Pathway 1: Active Substance → M-02: 182 / 0.0038090 Active Substance (TDS) → M-02: 121 / 0.0057280 Active Substance → BR/CO2: 0 M-02 → M-05: 10.458 / 0.0662790 M-02 → M-10: 12.403 / 0.0558850 M-02 → M-14: 76.190 / 0.0090980 M-02 → BR/CO2: 2.296 / 0.3018930 M-05 → M-14: 45.081 / 0.0153760 M-05 → BR/CO2: 57.143 / 0.0121300 M-10 → BR/CO2: 35.4 / 0.0195800 M-14 → BR/CO2: 9.4 / 0.0737390 Pathway 2: Active Substance → M-02: 182 / 0.0038090 Active Substance (TDS) → M-02: 121 / 0.0057280 Active Substance → BR/CO2: 0 M-02 → M-11/12: 36.364 / 0.0190610 M-02 → M-13: 32.653 / 0.0212280 M-02 → BR/CO2: 1.764 / 0.3929410 M-11/12 → BR/CO2: 87.6 / 0.0079130 M-13 → BR/CO2: 20.7 / 0.0737390 Pathway 3: Active Substance → M-01: 227.500 / 0.0030470 Active Substance → M-15: 113750 / 6.09E-06 Active Substance → BR/CO2: 917.339 / 0.000756 Active Substance (TDS) → M-01: 151.250 / 0.0045830 Active Substance (TDS) → M-15: 75625 / 9.17E-06 Active Substance (TDS) → BR/CO2: 609.879 / 0.0011370 M-01 → BR/CO2: 146 / 0.0047480 M-15 → BR/CO2: 145 / 0.0047800
Conversion factor from → to (-) (FOCUS MACRO)[b]: **acidic soils**	-
Conversion factor from → to (-) (FOCUS MACRO)[b]: **alkaline soils**	-

[a] Calculated as *ln(2) / DT50 × formation fraction*
[b] Calculated as *molar mass / molar mass predecessor × formation fraction*

Plant uptake parameters, in different leaching models, define the ability of plant roots to transport a solute into the plant, in comparison to the water uptake (that is, the ratio between pesticide mass uptake flux and water volume uptake flux, normalised to the aqueous concentration of the pesticide outside the root). For fluopicolide and M-01 the plant uptake factor was set to the value of 0.5; for all the other metabolites the plant uptake factors were set at 0.

M-11/12 is a mixture of two isomers M-11 and M-12 in the ratio M-11:M-12 ≈ 60:40. PECgw calculations are conducted for M-11/12 and the results then split in the ratio 60:40 to derive PECgw values for M-11 and M-12. Groundwater simulations using MACRO 5.5.4 was carried out for fluopicolide only.

Following the proposal of the FOCUS working group on groundwater scenarios (FOCUS 2014b), the concentrations in the percolate at 1 m depth were evaluated. This shallow depth reflects a worst case with respect to the assessment of a potential groundwater contamination. The effective long-term groundwater concentrations will be even lower due to dilution in the upper groundwater layer.

II. Results and Discussion

Overview of the PECgw values obtained with individual FOCUS models is given in Table 9.2.4- 34 to Table 9.2.4- 37 (PEARL), Table 9.2.4- 38 to Table 9.2.4- 41 (PELMO).

Table 9.2.4- 34: Maximum FOCUS PEARL PECgw results of fluopicolide and its metabolites in µg/L for the uses assessed – acidic soils, with aged-sorption

Use pattern	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
	FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
4X Early 1:2 years	0.042	3.453	0.013	0.040	0.288	0.962	0.412	0.275	0.231	0.093	0.022
4X Late 1:2 years	0.018	1.785	0.006	0.020	0.152	0.532	0.237	0.158	0.125	0.050	0.012
4X Early 1:3 years	0.023	2.195	0.008	0.024	0.185	0.599	0.237	0.158	0.148	0.061	0.014
4X Late 1:3 years	0.010	1.189	0.004	0.012	0.100	0.334	0.131	0.087	0.081	0.032	0.007
3X Early 1:1 years	0.096	6.099	0.021	0.080	0.516	1.699	0.740	0.493	0.423	0.166	0.040
3X Late 1:1 years	0.034	2.790	0.009	0.034	0.237	0.802	0.351	0.234	0.193	0.076	0.019
3X Early 1:2 years	0.033	2.962	0.011	0.034	0.246	0.829	0.355	0.237	0.199	0.080	0.019
3X Late 1:2 years	0.011	1.316	0.004	0.014	0.112	0.398	0.178	0.119	0.093	0.036	0.009
3X Early 1:3 years	0.018	1.879	0.006	0.020	0.158	0.517	0.205	0.137	0.128	0.052	0.012
3X Late 1:3 years	0.006	0.880	0.003	0.008	0.074	0.250	0.098	0.065	0.061	0.024	0.006
2X Early 1:1 years	0.073	5.085	0.017	0.064	0.428	1.429	0.623	0.415	0.356	0.138	0.034
2X Late 1:1 years	0.018	1.818	0.005	0.020	0.152	0.533	0.234	0.156	0.128	0.050	0.012
2X Early 1:2 years	0.025	2.470	0.008	0.027	0.205	0.697	0.299	0.199	0.167	0.066	0.016
2X Late 1:2 years	0.006	0.858	0.002	0.008	0.072	0.264	0.119	0.079	0.062	0.024	0.006
2X Early 1:3 years	0.014	1.566	0.005	0.016	0.131	0.435	0.173	0.115	0.108	0.043	0.010
2X Late 1:3 years	0.003	0.575	0.001	0.005	0.047	0.166	0.065	0.043	0.040	0.016	0.004
1X Early 1:1 years	0.025	2.438	0.007	0.027	0.201	0.712	0.312	0.208	0.177	0.066	0.016
1X Late 1:1 years	0.005	0.876	0.002	0.008	0.071	0.265	0.117	0.078	0.064	0.024	0.006
1X Early 1:2 years	0.008	1.186	0.003	0.011	0.097	0.346	0.149	0.099	0.083	0.032	0.008
1X Late 1:2 years	0.002	0.416	0.001	0.003	0.034	0.131	0.059	0.040	0.031	0.011	0.003
1X Early 1:3 years	0.004	0.751	0.002	0.007	0.062	0.217	0.086	0.057	0.054	0.021	0.005
1X Late 1:3 years	0.001	0.276	0.001	0.002	0.022	0.083	0.033	0.022	0.020	0.007	0.002

Table 9.2.4- 35: Maximum FOCUS PEARL PECgw results of fluopicolide and its metabolites in µg/L for the uses assessed – acidic soils, without aged-sorption

Use pattern	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
	FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
4X Early 1:2 years	0.243	3.501	0.021	0.088	0.310	0.988	0.413	0.275	0.239	0.098	0.022
4X Late 1:2 years	0.118	1.825	0.010	0.045	0.166	0.544	0.236	0.158	0.127	0.052	0.012
4X Early 1:3 years	0.143	2.236	0.012	0.052	0.203	0.602	0.236	0.158	0.150	0.065	0.014
4X Late 1:3 years	0.068	1.215	0.006	0.028	0.109	0.337	0.130	0.087	0.083	0.034	0.008
3X Early 1:1 years	0.500	6.188	0.039	0.163	0.548	1.737	0.737	0.491	0.425	0.175	0.041
3X Late 1:1 years	0.201	2.878	0.017	0.071	0.256	0.823	0.351	0.234	0.194	0.080	0.019
3X Early 1:2 years	0.197	3.008	0.017	0.074	0.265	0.851	0.356	0.237	0.206	0.084	0.019
3X Late 1:2 years	0.079	1.348	0.007	0.032	0.121	0.407	0.177	0.118	0.095	0.039	0.009
3X Early 1:3 years	0.116	1.920	0.010	0.043	0.174	0.518	0.204	0.136	0.129	0.055	0.012
3X Late 1:3 years	0.046	0.901	0.004	0.019	0.080	0.252	0.098	0.065	0.062	0.025	0.006
2X Early 1:1 years	0.394	5.179	0.032	0.132	0.456	1.460	0.621	0.414	0.358	0.146	0.034
2X Late 1:1 years	0.115	1.883	0.010	0.044	0.166	0.546	0.234	0.156	0.129	0.052	0.012
2X Early 1:2 years	0.154	2.512	0.014	0.059	0.220	0.715	0.299	0.200	0.173	0.070	0.016
2X Late 1:2 years	0.045	0.880	0.004	0.019	0.078	0.270	0.118	0.079	0.063	0.025	0.006
2X Early 1:3 years	0.091	1.605	0.008	0.035	0.144	0.436	0.172	0.115	0.109	0.046	0.010
2X Late 1:3 years	0.026	0.590	0.002	0.012	0.052	0.168	0.065	0.043	0.041	0.016	0.004
1X Early 1:1 years	0.152	2.509	0.013	0.056	0.218	0.724	0.310	0.207	0.178	0.070	0.016
1X Late 1:1 years	0.043	0.903	0.004	0.019	0.079	0.271	0.117	0.078	0.064	0.025	0.006
1X Early 1:2 years	0.059	1.210	0.005	0.025	0.105	0.355	0.149	0.100	0.085	0.034	0.008
1X Late 1:2 years	0.016	0.425	0.002	0.008	0.037	0.134	0.059	0.039	0.031	0.012	0.003
1X Early 1:3 years	0.034	0.776	0.003	0.015	0.068	0.218	0.086	0.057	0.054	0.022	0.005
1X Late 1:3 years	0.009	0.286	0.001	0.005	0.025	0.083	0.032	0.022	0.020	0.008	0.002

Table 9.2.4- 36: Maximum FOCUS PEARL PECgw results of fluopicolide and its metabolites in µg/L for the uses assessed – alkaline soils, with aged-sorption

Use pattern	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
	FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
4X Early 1:2 years	0.042	3.346	0.009	0.268	0.088	0.405	0.270	0.227	0.950	0.022
4X Late 1:2 years	0.018	1.739	0.004	0.144	0.048	0.237	0.158	0.125	0.530	0.012
4X Early 1:3 years	0.023	2.107	0.006	0.172	0.058	0.237	0.158	0.148	0.599	0.014
4X Late 1:3 years	0.010	1.148	0.003	0.094	0.031	0.131	0.087	0.080	0.327	0.007
3X Early 1:1 years	0.096	5.887	0.012	0.477	0.157	0.740	0.493	0.424	1.701	0.040
3X Late 1:1 years	0.034	2.706	0.005	0.222	0.073	0.349	0.233	0.195	0.792	0.019
3X Early 1:2 years	0.033	2.868	0.007	0.228	0.075	0.349	0.233	0.195	0.818	0.019
3X Late 1:2 years	0.011	1.281	0.003	0.105	0.035	0.178	0.119	0.094	0.396	0.009
3X Early 1:3 years	0.018	1.803	0.004	0.146	0.049	0.205	0.137	0.128	0.517	0.012
3X Late 1:3 years	0.006	0.847	0.002	0.069	0.023	0.098	0.065	0.060	0.245	0.006
2X Early 1:1 years	0.073	4.906	0.009	0.395	0.131	0.623	0.415	0.356	1.431	0.034
2X Late 1:1 years	0.018	1.764	0.003	0.143	0.048	0.233	0.155	0.129	0.526	0.012
2X Early 1:2 years	0.025	2.393	0.006	0.190	0.062	0.294	0.196	0.164	0.688	0.016
2X Late 1:2 years	0.006	0.833	0.002	0.068	0.023	0.119	0.079	0.062	0.263	0.006
2X Early 1:3 years	0.014	1.502	0.004	0.121	0.041	0.173	0.115	0.107	0.435	0.010
2X Late 1:3 years	0.003	0.551	0.001	0.044	0.015	0.065	0.043	0.040	0.163	0.004
1X Early 1:1 years	0.025	2.356	0.003	0.185	0.063	0.311	0.208	0.177	0.714	0.016
1X Late 1:1 years	0.005	0.848	0.001	0.067	0.023	0.116	0.078	0.064	0.262	0.006
1X Early 1:2 years	0.008	1.148	0.002	0.090	0.030	0.146	0.098	0.081	0.342	0.008
1X Late 1:2 years	0.002	0.402	0.001	0.032	0.011	0.060	0.040	0.031	0.131	0.003
1X Early 1:3 years	0.004	0.722	0.001	0.057	0.019	0.086	0.057	0.053	0.217	0.005
1X Late 1:3 years	0.001	0.266	0.000	0.021	0.007	0.033	0.022	0.020	0.081	0.002

Table 9.2.4- 37: Maximum FOCUS PEARL PECgw results of fluopicolide and its metabolites in µg/L for the uses assessed – alkaline soils, without aged-sorption

Use pattern	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
	FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
4X Early 1:2 years	0.243	3.415	0.016	0.290	0.975	0.406	0.271	0.234	0.094	0.022
4X Late 1:2 years	0.118	1.782	0.008	0.157	0.541	0.238	0.158	0.128	0.051	0.012
4X Early 1:3 years	0.143	2.172	0.009	0.190	0.602	0.237	0.158	0.149	0.062	0.014
4X Late 1:3 years	0.068	1.186	0.004	0.104	0.331	0.130	0.087	0.081	0.033	0.008
3X Early 1:1 years	0.500	6.035	0.026	0.517	1.727	0.737	0.491	0.427	0.167	0.041
3X Late 1:1 years	0.201	2.797	0.011	0.244	0.811	0.349	0.233	0.195	0.077	0.019
3X Early 1:2 years	0.197	2.928	0.013	0.248	0.840	0.350	0.233	0.202	0.080	0.019
3X Late 1:2 years	0.079	1.314	0.005	0.115	0.404	0.178	0.119	0.095	0.037	0.009
3X Early 1:3 years	0.116	1.864	0.007	0.162	0.519	0.204	0.136	0.129	0.053	0.012
3X Late 1:3 years	0.046	0.878	0.003	0.076	0.248	0.098	0.065	0.060	0.024	0.006
2X Early 1:1 years	0.394	5.042	0.021	0.430	1.452	0.621	0.414	0.359	0.139	0.034
2X Late 1:1 years	0.115	1.821	0.007	0.157	0.538	0.233	0.155	0.129	0.050	0.012
2X Early 1:2 years	0.154	2.445	0.010	0.207	0.705	0.294	0.196	0.169	0.067	0.016
2X Late 1:2 years	0.045	0.856	0.003	0.074	0.268	0.119	0.079	0.063	0.024	0.006
2X Early 1:3 years	0.091	1.555	0.006	0.134	0.437	0.172	0.115	0.108	0.044	0.010
2X Late 1:3 years	0.026	0.574	0.002	0.049	0.165	0.065	0.043	0.040	0.016	0.004
1X Early 1:1 years	0.152	2.427	0.009	0.205	0.722	0.310	0.207	0.179	0.067	0.016
1X Late 1:1 years	0.043	0.874	0.003	0.074	0.267	0.116	0.078	0.064	0.024	0.006
1X Early 1:2 years	0.059	1.177	0.004	0.098	0.350	0.147	0.098	0.084	0.032	0.008
1X Late 1:2 years	0.016	0.412	0.001	0.035	0.133	0.060	0.040	0.031	0.012	0.003
1X Early 1:3 years	0.034	0.747	0.002	0.063	0.218	0.086	0.057	0.054	0.021	0.005
1X Late 1:3 years	0.009	0.275	0.001	0.023	0.082	0.032	0.022	0.020	0.008	0.002

Table 9.2.4- 38: Maximum FOCUS PELMO PECgw results of fluopicolide and its metabolites in µg/L for the uses assessed – acidic soils, with aged-sorption

Use pattern	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
	FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
4X Early 1:2 years	0.036	3.897	0.023	0.037	0.253	0.824	0.363	0.242	0.095	0.082	0.019
4X Late 1:2 years	0.016	2.050	0.012	0.019	0.136	0.460	0.202	0.135	0.052	0.043	0.010
4X Early 1:3 years	0.020	2.513	0.014	0.023	0.165	0.553	0.198	0.132	0.064	0.053	0.012
4X Late 1:3 years	0.009	1.345	0.007	0.012	0.088	0.293	0.107	0.072	0.035	0.028	0.007
3X Early 1:1 years	0.082	6.980	0.036	0.078	0.451	1.548	0.634	0.423	0.173	0.143	0.033
3X Late 1:1 years	0.030	3.214	0.015	0.034	0.209	0.722	0.299	0.200	0.081	0.067	0.015
3X Early 1:2 years	0.029	2.158	0.019	0.031	0.216	0.712	0.313	0.209	0.082	0.070	0.010
3X Late 1:2 years	0.010	1.514	0.008	0.013	0.099	0.345	0.152	0.101	0.039	0.032	0.007
3X Early 1:3 years	0.016	2.158	0.012	0.019	0.141	0.478	0.171	0.114	0.055	0.046	0.010
3X Late 1:3 years	0.006	0.996	0.005	0.008	0.065	0.219	0.080	0.054	0.026	0.021	0.005
2X Early 1:1 years	0.063	5.836	0.029	0.063	0.375	1.304	0.535	0.356	0.146	0.119	0.028
2X Late 1:1 years	0.016	2.103	0.009	0.021	0.136	0.481	0.200	0.134	0.054	0.043	0.010
2X Early 1:2 years	0.022	2.790	0.015	0.025	0.180	0.600	0.263	0.176	0.069	0.058	0.013
2X Late 1:2 years	0.005	0.990	0.005	0.008	0.064	0.230	0.101	0.068	0.026	0.021	0.005
2X Early 1:3 years	0.012	1.807	0.009	0.015	0.117	0.402	0.144	0.096	0.047	0.038	0.009
2X Late 1:3 years	0.003	0.653	0.003	0.005	0.042	0.146	0.053	0.036	0.017	0.013	0.003
1X Early 1:1 years	0.021	2.829	0.012	0.026	0.179	0.652	0.268	0.179	0.073	0.058	0.013
1X Late 1:1 years	0.005	1.017	0.004	0.008	0.065	0.240	0.100	0.067	0.027	0.021	0.005
1X Early 1:2 years	0.007	1.359	0.006	0.010	0.086	0.300	0.132	0.088	0.034	0.028	0.007
1X Late 1:2 years	0.002	0.476	0.002	0.003	0.030	0.115	0.051	0.034	0.013	0.010	0.002
1X Early 1:3 years	0.004	0.878	0.004	0.006	0.056	0.202	0.073	0.048	0.023	0.018	0.004
1X Late 1:3 years	0.001	0.316	0.001	0.002	0.020	0.073	0.027	0.018	0.009	0.007	0.002

Table 9.2.4- 39: Maximum FOCUS PELMO PECgw results of fluopicolide and its metabolites in µg/L for the uses assessed – acidic soils, without aged-sorption

Use pattern	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
	FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
4X Early 1:2 years	0.209	3.836	0.031	0.074	0.268	0.814	0.358	0.238	0.095	0.084	0.018
4X Late 1:2 years	0.104	2.027	0.015	0.039	0.143	0.458	0.196	0.131	0.051	0.045	0.010
4X Early 1:3 years	0.125	2.484	0.018	0.046	0.175	0.541	0.193	0.128	0.064	0.055	0.012
4X Late 1:3 years	0.061	1.336	0.009	0.025	0.093	0.286	0.104	0.069	0.034	0.030	0.007
3X Early 1:1 years	0.428	6.870	0.055	0.147	0.473	1.519	0.619	0.413	0.173	0.146	0.033
3X Late 1:1 years	0.177	3.190	0.024	0.067	0.221	0.712	0.293	0.195	0.080	0.069	0.015
3X Early 1:2 years	0.169	3.291	0.026	0.062	0.229	0.703	0.308	0.206	0.082	0.072	0.016
3X Late 1:2 years	0.070	1.499	0.010	0.028	0.105	0.343	0.148	0.098	0.038	0.034	0.007
3X Early 1:3 years	0.102	2.134	0.015	0.039	0.149	0.468	0.166	0.111	0.055	0.047	0.010
3X Late 1:3 years	0.040	0.991	0.006	0.018	0.069	0.214	0.078	0.052	0.026	0.022	0.005
2X Early 1:1 years	0.338	5.750	0.045	0.120	0.394	1.279	0.522	0.348	0.145	0.122	0.027
2X Late 1:1 years	0.101	2.093	0.015	0.042	0.143	0.475	0.196	0.130	0.053	0.045	0.010
2X Early 1:2 years	0.133	2.749	0.020	0.050	0.190	0.592	0.259	0.173	0.069	0.060	0.013
2X Late 1:2 years	0.039	0.980	0.006	0.017	0.068	0.229	0.098	0.066	0.025	0.022	0.005
2X Early 1:3 years	0.080	1.787	0.012	0.031	0.124	0.394	0.140	0.094	0.046	0.040	0.009
2X Late 1:3 years	0.023	0.650	0.004	0.011	0.044	0.143	0.052	0.035	0.017	0.014	0.003
1X Early 1:1 years	0.130	2.801	0.019	0.053	0.189	0.642	0.262	0.175	0.072	0.059	0.013
1X Late 1:1 years	0.038	1.016	0.006	0.018	0.068	0.238	0.098	0.066	0.027	0.022	0.005
1X Early 1:2 years	0.050	1.336	0.008	0.021	0.091	0.295	0.130	0.086	0.034	0.029	0.007
1X Late 1:2 years	0.015	0.478	0.003	0.007	0.032	0.114	0.050	0.033	0.013	0.010	0.002
1X Early 1:3 years	0.030	0.871	0.005	0.013	0.059	0.198	0.070	0.047	0.023	0.019	0.004
1X Late 1:3 years	0.008	0.315	0.002	0.005	0.021	0.071	0.026	0.018	0.009	0.007	0.002

Table 9.2.4- 40: Maximum FOCUS PELMO PECgw results of fluopicolide and its metabolites in µg/L for the uses assessed – alkaline soils, with aged-sorption

Use pattern	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
	FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
4X Early 1:2 years	0.036	3.812	0.017	0.236	0.816	0.359	0.239	0.093	0.077	0.019
4X Late 1:2 years	0.016	2.009	0.009	0.131	0.456	0.203	0.135	0.053	0.042	0.010
4X Early 1:3 years	0.020	2.441	0.012	0.151	0.555	0.201	0.134	0.063	0.050	0.012
4X Late 1:3 years	0.009	1.310	0.006	0.085	0.293	0.107	0.072	0.036	0.027	0.007
3X Early 1:1 years	0.082	6.807	0.026	0.420	1.542	0.636	0.424	0.170	0.137	0.033
3X Late 1:1 years	0.030	3.140	0.011	0.199	0.720	0.298	0.198	0.081	0.064	0.015
3X Early 1:2 years	0.029	3.269	0.014	0.201	0.705	0.310	0.206	0.080	0.065	0.016
3X Late 1:2 years	0.010	1.482	0.006	0.096	0.342	0.152	0.102	0.039	0.031	0.007
3X Early 1:3 years	0.016	2.096	0.010	0.129	0.479	0.174	0.116	0.054	0.043	0.010
3X Late 1:3 years	0.006	0.970	0.004	0.062	0.219	0.080	0.054	0.027	0.020	0.005
2X Early 1:1 years	0.063	5.685	0.020	0.349	1.298	0.536	0.357	0.143	0.115	0.028
2X Late 1:1 years	0.016	2.053	0.006	0.129	0.479	0.199	0.132	0.054	0.042	0.010
2X Early 1:2 years	0.022	2.727	0.011	0.167	0.593	0.260	0.174	0.067	0.054	0.013
2X Late 1:2 years	0.005	0.964	0.004	0.061	0.228	0.101	0.068	0.026	0.020	0.005
2X Early 1:3 years	0.012	1.754	0.008	0.107	0.404	0.147	0.098	0.046	0.036	0.009
2X Late 1:3 years	0.003	0.635	0.003	0.040	0.146	0.052	0.035	0.017	0.013	0.003
1X Early 1:1 years	0.021	2.754	0.007	0.166	0.651	0.363	0.242	0.071	0.056	0.013
1X Late 1:1 years	0.005	0.992	0.002	0.062	0.239	0.100	0.066	0.027	0.020	0.005
1X Early 1:2 years	0.007	1.326	0.005	0.080	0.296	0.130	0.087	0.033	0.026	0.007
1X Late 1:2 years	0.002	0.463	0.001	0.027	0.110	0.051	0.034	0.013	0.009	0.002
1X Early 1:3 years	0.004	0.852	0.003	0.051	0.202	0.130	0.087	0.033	0.017	0.004
1X Late 1:3 years	0.001	0.307	0.001	0.017	0.076	0.027	0.018	0.009	0.006	0.002

Table 9.2.4- 41: Maximum FOCUS PELMO PECgw results of fluopicolide and its metabolites in µg/L for the uses assessed – alkaline soils, without aged-sorption

Use pattern	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
	FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
4X Early 1:2 years	0.209	3.762	0.024	0.250	0.814	0.353	0.236	0.092	0.080	0.018
4X Late 1:2 years	0.104	1.990	0.013	0.138	0.454	0.197	0.131	0.052	0.044	0.010
4X Early 1:3 years	0.125	2.422	0.015	0.163	0.544	0.196	0.130	0.063	0.053	0.012
4X Late 1:3 years	0.061	1.306	0.008	0.090	0.286	0.104	0.070	0.035	0.028	0.007
3X Early 1:1 years	0.428	6.729	0.040	0.250	1.512	0.621	0.414	0.170	0.139	0.033
3X Late 1:1 years	0.177	3.127	0.017	0.209	0.709	0.291	0.194	0.080	0.067	0.015
3X Early 1:2 years	0.169	3.226	0.020	0.214	0.703	0.305	0.203	0.080	0.069	0.016
3X Late 1:2 years	0.070	1.470	0.009	0.101	0.340	0.148	0.098	0.038	0.032	0.007
3X Early 1:3 years	0.102	2.080	0.012	0.139	0.470	0.169	0.113	0.054	0.045	0.010
3X Late 1:3 years	0.040	0.968	0.005	0.066	0.214	0.079	0.052	0.026	0.021	0.005
2X Early 1:1 years	0.338	5.627	0.032	0.369	1.274	0.523	0.349	0.143	0.116	0.027
2X Late 1:1 years	0.101	2.049	0.010	0.136	0.472	0.194	0.130	0.053	0.044	0.010
2X Early 1:2 years	0.133	2.694	0.016	0.178	0.591	0.256	0.171	0.067	0.057	0.013
2X Late 1:2 years	0.039	0.960	0.005	0.065	0.227	0.099	0.066	0.026	0.021	0.005
2X Early 1:3 years	0.080	1.741	0.010	0.115	0.396	0.143	0.095	0.045	0.038	0.009
2X Late 1:3 years	0.023	0.634	0.003	0.043	0.143	0.052	0.035	0.017	0.014	0.003
1X Early 1:1 years	0.130	2.737	0.013	0.177	0.639	0.263	0.175	0.071	0.056	0.013
1X Late 1:1 years	0.038	0.993	0.004	0.065	0.236	0.098	0.065	0.026	0.021	0.005
1X Early 1:2 years	0.050	1.308	0.006	0.085	0.295	0.128	0.086	0.033	0.027	0.007
1X Late 1:2 years	0.015	0.465	0.002	0.029	0.110	0.194	0.130	0.053	0.010	0.002
1X Early 1:3 years	0.030	0.847	0.004	0.055	0.198	0.072	0.048	0.023	0.018	0.004
1X Late 1:3 years	0.008	0.307	0.001	0.019	0.074	0.026	0.018	0.008	0.006	0.002

Detailed results for all scenarios for FOCUS PEARL, FOCUS PELMO and FOCUS MACRO are listed in the following subsections Table 9.2.4- 42 to Table 9.2.4- 239.

Potatoes 4 x 100 g / ha
1:2 year rotation – Early window

Table 9.2.4- 42: FOCUS PEARL PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:2 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.004	2.779	0.001	0.007	0.127	0.433	0.288	0.192	0.071	0.043	0.020
	Hamburg	0.036	3.453	0.011	0.040	0.288	0.883	0.342	0.228	0.193	0.093	0.022
	Jokioinen	0.001	2.970	0.013	0.005	0.237	0.962	0.412	0.275	0.231	0.082	0.018
	Kremsmünster	0.021	2.609	0.004	0.021	0.159	0.465	0.208	0.139	0.088	0.051	0.016
	Okehampton	0.042	2.473	0.009	0.040	0.206	0.457	0.178	0.119	0.099	0.064	0.014
	Piacenza	0.026	2.072	0.005	0.026	0.136	0.315	0.175	0.116	0.058	0.042	0.015
	Porto	0.008	1.695	0.006	0.015	0.096	0.229	0.109	0.072	0.045	0.030	0.009
	Seville	0.000	1.644	0.000	0.000	0.036	0.160	0.132	0.088	0.024	0.013	0.010
	Thiva	0.001	2.189	0.001	0.003	0.057	0.221	0.230	0.153	0.027	0.019	0.018

Table 9.2.4- 43: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:2 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.089	2.900	0.006	0.032	0.148	0.454	0.292	0.195	0.076	0.048	0.021
	Hamburg	0.243	3.501	0.020	0.088	0.310	0.891	0.337	0.224	0.198	0.098	0.022
	Jokioinen	0.035	3.093	0.021	0.019	0.257	0.988	0.413	0.275	0.239	0.086	0.018
	Kremsmunster	0.176	2.678	0.010	0.055	0.175	0.472	0.207	0.138	0.091	0.054	0.016
	Okehampton	0.242	2.495	0.017	0.083	0.219	0.460	0.175	0.117	0.101	0.067	0.014
	Piacenza	0.171	2.138	0.011	0.057	0.148	0.323	0.174	0.116	0.061	0.044	0.015
	Porto	0.080	1.756	0.013	0.039	0.108	0.247	0.110	0.073	0.049	0.033	0.009
	Seville	0.002	1.708	0.001	0.002	0.041	0.167	0.132	0.088	0.026	0.014	0.010
	Thiva	0.027	2.283	0.003	0.011	0.070	0.239	0.230	0.153	0.031	0.022	0.018

Table 9.2.4- 44: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:2 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.004	2.666	0.001	0.113	0.039	0.285	0.190	0.066	0.415	0.020
	Hamburg	0.036	3.346	0.006	0.268	0.088	0.339	0.226	0.186	0.862	0.022
	Jokioinen	0.001	2.891	0.009	0.226	0.079	0.405	0.270	0.227	0.950	0.018
	Kremsmunster	0.021	2.513	0.002	0.146	0.047	0.204	0.136	0.084	0.452	0.016
	Okehampton	0.042	2.396	0.004	0.191	0.060	0.176	0.117	0.094	0.442	0.014
	Piacenza	0.026	1.968	0.003	0.123	0.039	0.170	0.113	0.054	0.303	0.015
	Porto	0.008	1.626	0.003	0.085	0.027	0.106	0.070	0.041	0.214	0.009
	Seville	0.000	1.559	0.000	0.032	0.011	0.129	0.086	0.023	0.150	0.010
	Thiva	0.001	2.058	0.000	0.050	0.017	0.227	0.151	0.025	0.208	0.018

Table 9.2.4- 45: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:2 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.089	2.800	0.004	0.133	0.437	0.288	0.192	0.071	0.044	0.021
	Hamburg	0.243	3.415	0.013	0.290	0.873	0.335	0.224	0.192	0.094	0.022
	Jokioinen	0.035	3.015	0.016	0.244	0.975	0.406	0.271	0.234	0.083	0.018
	Kremsmunster	0.176	2.588	0.007	0.162	0.461	0.204	0.136	0.088	0.051	0.016
	Okehampton	0.242	2.427	0.011	0.207	0.448	0.173	0.116	0.097	0.064	0.014
	Piacenza	0.171	2.040	0.007	0.136	0.312	0.170	0.113	0.058	0.042	0.015
	Porto	0.080	1.687	0.009	0.098	0.232	0.107	0.072	0.045	0.030	0.009
	Seville	0.002	1.608	0.001	0.037	0.157	0.129	0.086	0.024	0.013	0.010
	Thiva	0.027	2.142	0.001	0.061	0.223	0.226	0.151	0.028	0.020	0.018

Table 9.2.4- 46: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:2 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.002	3.404	0.001	0.004	0.097	0.334	0.223	0.148	0.012	0.032	0.016
	Hamburg	0.020	3.897	0.016	0.031	0.253	0.694	0.281	0.187	0.056	0.082	0.019
	Jokioinen	0.001	3.241	0.023	0.004	0.229	0.824	0.363	0.242	0.095	0.076	0.016
	Kremsmunster	0.013	3.135	0.005	0.016	0.160	0.459	0.205	0.137	0.027	0.051	0.015
	Okehampton	0.036	2.663	0.011	0.037	0.197	0.428	0.154	0.102	0.036	0.061	0.013
	Piacenza	0.021	2.597	0.008	0.025	0.132	0.287	0.146	0.097	0.020	0.041	0.012
	Porto	0.013	1.855	0.017	0.029	0.125	0.266	0.112	0.075	0.025	0.038	0.009
	Seville	0.000	2.083	0.001	0.000	0.036	0.166	0.128	0.085	0.008	0.013	0.010
	Thiva	0.000	2.941	0.001	0.002	0.045	0.178	0.174	0.116	0.006	0.015	0.014

Table 9.2.4- 47: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:2 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.047	3.378	0.004	0.019	0.112	0.340	0.218	0.146	0.014	0.036	0.016
	Hamburg	0.170	3.836	0.026	0.069	0.268	0.691	0.272	0.182	0.059	0.084	0.018
	Jokioinen	0.023	3.212	0.031	0.015	0.238	0.814	0.358	0.238	0.095	0.078	0.015
	Kremsmunster	0.135	3.093	0.011	0.046	0.170	0.458	0.200	0.133	0.029	0.053	0.015
	Okehampton	0.209	2.594	0.019	0.074	0.205	0.419	0.148	0.098	0.037	0.062	0.012
	Piacenza	0.151	2.578	0.013	0.056	0.142	0.292	0.142	0.095	0.022	0.043	0.012
	Porto	0.106	1.853	0.027	0.056	0.131	0.275	0.109	0.073	0.026	0.039	0.009
	Seville	0.000	2.068	0.001	0.001	0.039	0.168	0.125	0.083	0.008	0.014	0.010
	Thiva	0.013	2.904	0.003	0.008	0.052	0.182	0.170	0.114	0.007	0.017	0.014

Table 9.2.4- 48: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:2 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.002	3.297	0.000	0.087	0.325	0.221	0.147	0.010	0.030	0.016
	Hamburg	0.020	3.812	0.010	0.236	0.669	0.276	0.184	0.052	0.077	0.019
	Jokioinen	0.001	3.186	0.017	0.220	0.816	0.359	0.239	0.093	0.074	0.016
	Kremsmunster	0.013	3.066	0.002	0.147	0.445	0.203	0.135	0.025	0.048	0.015
	Okehampton	0.036	2.586	0.006	0.182	0.415	0.154	0.102	0.033	0.057	0.013
	Piacenza	0.021	2.507	0.006	0.121	0.274	0.142	0.094	0.018	0.038	0.012
	Porto	0.013	1.792	0.010	0.113	0.252	0.110	0.073	0.022	0.035	0.009
	Seville	0.000	2.001	0.001	0.033	0.159	0.126	0.084	0.008	0.012	0.010
	Thiva	0.000	2.841	0.000	0.039	0.167	0.172	0.115	0.006	0.013	0.014

Table 9.2.4- 49: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:2 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.047	3.279	0.002	0.101	0.331	0.217	0.144	0.012	0.033	0.016
	Hamburg	0.170	3.762	0.019	0.250	0.669	0.269	0.179	0.055	0.080	0.018
	Jokioinen	0.023	3.161	0.024	0.228	0.814	0.353	0.236	0.092	0.076	0.015
	Kremsmunster	0.135	3.036	0.007	0.159	0.446	0.198	0.132	0.027	0.050	0.015
	Okehampton	0.209	2.535	0.014	0.192	0.409	0.148	0.099	0.034	0.059	0.012
	Piacenza	0.151	2.493	0.010	0.132	0.279	0.138	0.092	0.020	0.040	0.012
	Porto	0.106	1.788	0.020	0.120	0.262	0.107	0.072	0.024	0.037	0.009
	Seville	0.000	1.974	0.001	0.036	0.161	0.122	0.081	0.008	0.013	0.010
	Thiva	0.013	2.807	0.001	0.046	0.172	0.167	0.111	0.006	0.015	0.014

Table 9.2.4- 50: FOCUS MACRO, PECgw results of fluopicolide – 4 x 100 g/ha 1:2 year, early application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0074

<u>**1:2 year rotation – Late window**</u>

Table 9.2.4- 51: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:2 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	1.429	0.001	0.003	0.067	0.234	0.155	0.103	0.040	0.023	0.011
	Hamburg	0.015	1.785	0.005	0.019	0.152	0.490	0.189	0.126	0.106	0.050	0.012
	Jokioinen	0.000	1.549	0.006	0.002	0.123	0.532	0.237	0.158	0.125	0.044	0.010
	Kremsmunster	0.007	1.389	0.002	0.009	0.087	0.260	0.117	0.078	0.049	0.027	0.009
	Okehampton	0.018	1.325	0.004	0.020	0.111	0.259	0.097	0.065	0.057	0.035	0.008
	Piacenza	0.012	1.101	0.003	0.014	0.080	0.190	0.109	0.073	0.036	0.024	0.008
	Porto	0.003	0.930	0.003	0.007	0.055	0.130	0.061	0.041	0.026	0.017	0.005
	Seville	0.000	0.905	0.000	0.000	0.020	0.097	0.074	0.049	0.015	0.007	0.005
	Thiva	0.000	1.242	0.000	0.001	0.037	0.133	0.128	0.085	0.018	0.012	0.011

Table 9.2.4- 52: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:2 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.033	1.489	0.003	0.014	0.078	0.245	0.157	0.104	0.043	0.026	0.011
	Hamburg	0.114	1.825	0.010	0.045	0.166	0.494	0.186	0.124	0.109	0.052	0.012
	Jokioinen	0.013	1.597	0.010	0.008	0.134	0.544	0.236	0.158	0.127	0.046	0.010
	Kremsmunster	0.076	1.432	0.005	0.027	0.095	0.264	0.116	0.078	0.051	0.029	0.009
	Okehampton	0.118	1.343	0.009	0.043	0.119	0.261	0.096	0.064	0.059	0.036	0.008
	Piacenza	0.090	1.146	0.006	0.030	0.085	0.192	0.110	0.073	0.037	0.025	0.008
	Porto	0.032	0.968	0.006	0.018	0.062	0.140	0.063	0.042	0.029	0.019	0.005
	Seville	0.000	0.935	0.000	0.001	0.022	0.101	0.075	0.050	0.016	0.008	0.006
	Thiva	0.009	1.308	0.001	0.005	0.044	0.141	0.128	0.085	0.020	0.014	0.011

Table 9.2.4- 53: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:2 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	1.368	0.000	0.061	0.021	0.154	0.103	0.038	0.227	0.011
	Hamburg	0.015	1.739	0.003	0.144	0.048	0.189	0.126	0.105	0.486	0.012
	Jokioinen	0.000	1.496	0.004	0.117	0.042	0.237	0.158	0.125	0.530	0.010
	Kremsmunster	0.007	1.346	0.001	0.079	0.026	0.116	0.078	0.048	0.253	0.009
	Okehampton	0.018	1.291	0.002	0.105	0.034	0.097	0.065	0.056	0.255	0.008
	Piacenza	0.012	1.072	0.002	0.075	0.023	0.107	0.071	0.035	0.187	0.008
	Porto	0.003	0.890	0.001	0.049	0.016	0.060	0.040	0.024	0.122	0.005
	Seville	0.000	0.866	0.000	0.018	0.006	0.073	0.049	0.014	0.091	0.005
	Thiva	0.000	1.190	0.000	0.032	0.011	0.127	0.085	0.017	0.126	0.011

Table 9.2.4- 54: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:2 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.033	1.429	0.002	0.072	0.236	0.156	0.104	0.041	0.024	0.011
	Hamburg	0.114	1.782	0.007	0.157	0.490	0.187	0.124	0.107	0.051	0.012
	Jokioinen	0.013	1.545	0.008	0.128	0.541	0.238	0.158	0.128	0.044	0.010
	Kremsmunster	0.076	1.388	0.003	0.088	0.259	0.116	0.077	0.050	0.027	0.009
	Okehampton	0.118	1.314	0.006	0.113	0.259	0.096	0.064	0.058	0.035	0.008
	Piacenza	0.090	1.112	0.004	0.082	0.190	0.108	0.072	0.036	0.024	0.008
	Porto	0.032	0.932	0.004	0.056	0.133	0.061	0.041	0.026	0.018	0.005
	Seville	0.000	0.896	0.000	0.020	0.095	0.074	0.049	0.015	0.007	0.006
	Thiva	0.009	1.241	0.001	0.039	0.135	0.127	0.085	0.019	0.013	0.011

Table 9.2.4- 55: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:2 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	1.809	0.000	0.001	0.049	0.186	0.116	0.078	0.007	0.017	0.009
	Hamburg	0.008	2.050	0.008	0.015	0.136	0.389	0.155	0.103	0.033	0.043	0.010
	Jokioinen	0.000	1.710	0.012	0.002	0.117	0.460	0.202	0.135	0.052	0.041	0.008
	Kremsmunster	0.005	1.636	0.002	0.007	0.086	0.254	0.115	0.077	0.015	0.027	0.008
	Okehampton	0.016	1.439	0.006	0.019	0.109	0.243	0.086	0.058	0.021	0.034	0.007
	Piacenza	0.010	1.376	0.005	0.012	0.077	0.178	0.092	0.061	0.014	0.023	0.007
	Porto	0.005	0.997	0.008	0.013	0.070	0.153	0.063	0.042	0.015	0.021	0.005
	Seville	0.000	1.129	0.000	0.000	0.020	0.098	0.071	0.048	0.005	0.007	0.005
	Thiva	0.000	1.640	0.000	0.001	0.029	0.114	0.101	0.067	0.004	0.010	0.008

Table 9.2.4- 56: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:2 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.016	1.789	0.001	0.007	0.055	0.188	0.113	0.075	0.008	0.018	0.009
	Hamburg	0.078	2.027	0.014	0.035	0.143	0.387	0.151	0.100	0.034	0.045	0.010
	Jokioinen	0.009	1.703	0.015	0.007	0.124	0.458	0.196	0.131	0.051	0.042	0.008
	Kremsmunster	0.057	1.618	0.005	0.021	0.091	0.251	0.112	0.075	0.016	0.028	0.008
	Okehampton	0.104	1.399	0.010	0.039	0.113	0.239	0.083	0.056	0.022	0.034	0.007
	Piacenza	0.079	1.367	0.008	0.029	0.081	0.176	0.089	0.060	0.014	0.024	0.007
	Porto	0.041	1.002	0.013	0.026	0.072	0.153	0.062	0.041	0.015	0.022	0.005
	Seville	0.000	1.113	0.001	0.000	0.020	0.099	0.070	0.046	0.005	0.007	0.005
	Thiva	0.003	1.598	0.001	0.002	0.032	0.115	0.097	0.065	0.005	0.010	0.008

Table 9.2.4- 57: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:2 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	1.751	0.000	0.044	0.180	0.117	0.078	0.006	0.015	0.009
	Hamburg	0.008	2.009	0.005	0.131	0.385	0.153	0.102	0.032	0.042	0.010
	Jokioinen	0.000	1.671	0.009	0.112	0.456	0.203	0.135	0.053	0.040	0.008
	Kremsmunster	0.005	1.589	0.001	0.079	0.251	0.113	0.076	0.014	0.026	0.008
	Okehampton	0.016	1.413	0.003	0.103	0.238	0.086	0.058	0.021	0.033	0.007
	Piacenza	0.010	1.350	0.004	0.074	0.176	0.090	0.060	0.013	0.022	0.007
	Porto	0.005	0.973	0.004	0.064	0.146	0.062	0.041	0.013	0.020	0.005
	Seville	0.000	1.092	0.000	0.018	0.094	0.070	0.047	0.005	0.007	0.005
	Thiva	0.000	1.571	0.000	0.025	0.107	0.098	0.065	0.004	0.008	0.008

Table 9.2.4- 58: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:2 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.016	1.731	0.001	0.050	0.181	0.113	0.075	0.007	0.017	0.009
	Hamburg	0.078	1.990	0.010	0.138	0.384	0.150	0.100	0.034	0.044	0.010
	Jokioinen	0.009	1.669	0.013	0.118	0.454	0.197	0.131	0.052	0.041	0.008
	Kremsmunster	0.057	1.578	0.003	0.085	0.249	0.110	0.074	0.015	0.027	0.008
	Okehampton	0.104	1.391	0.007	0.109	0.236	0.083	0.056	0.021	0.033	0.007
	Piacenza	0.079	1.342	0.006	0.077	0.174	0.088	0.059	0.014	0.023	0.007
	Porto	0.041	0.972	0.009	0.067	0.147	0.061	0.040	0.014	0.020	0.005
	Seville	0.000	1.078	0.000	0.019	0.095	0.068	0.046	0.005	0.007	0.005
	Thiva	0.003	1.536	0.001	0.028	0.110	0.095	0.063	0.004	0.009	0.008

Table 9.2.4- 59: FOCUS MACRO, PECgw results of fluopicolide – 4 x 100 g/ha 1:2 year, late application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0042

<u>**1:3 year rotation – Early window**</u>

Table 9.2.4- 60: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:3 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.002	1.810	0.001	0.004	0.082	0.281	0.182	0.121	0.048	0.028	0.013
	Hamburg	0.019	2.195	0.006	0.023	0.185	0.531	0.199	0.133	0.119	0.061	0.014
	Jokioinen	0.001	1.975	0.008	0.004	0.151	0.599	0.237	0.158	0.148	0.053	0.012
	Kremsmunster	0.011	1.739	0.002	0.013	0.103	0.318	0.143	0.096	0.059	0.033	0.011
	Okehampton	0.023	1.597	0.005	0.024	0.132	0.298	0.115	0.076	0.065	0.042	0.009
	Piacenza	0.015	1.349	0.003	0.017	0.092	0.205	0.119	0.079	0.039	0.028	0.009
	Porto	0.004	1.092	0.003	0.009	0.064	0.147	0.068	0.046	0.029	0.020	0.006
	Seville	0.000	0.982	0.000	0.000	0.023	0.109	0.088	0.059	0.017	0.008	0.006
	Thiva	0.000	1.491	0.000	0.001	0.038	0.161	0.155	0.103	0.021	0.013	0.013

Table 9.2.4- 61: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:3 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.050	1.880	0.004	0.019	0.097	0.293	0.182	0.122	0.052	0.032	0.014
	Hamburg	0.138	2.236	0.012	0.052	0.203	0.535	0.197	0.131	0.122	0.065	0.014
	Jokioinen	0.018	2.020	0.012	0.013	0.163	0.602	0.236	0.158	0.150	0.055	0.012
	Kremsmunster	0.097	1.809	0.006	0.035	0.113	0.322	0.143	0.095	0.062	0.036	0.011
	Okehampton	0.143	1.609	0.010	0.051	0.144	0.301	0.113	0.075	0.067	0.044	0.009
	Piacenza	0.101	1.373	0.007	0.037	0.101	0.214	0.118	0.079	0.041	0.030	0.010
	Porto	0.043	1.131	0.008	0.022	0.072	0.157	0.069	0.046	0.032	0.022	0.006
	Seville	0.001	1.013	0.001	0.001	0.026	0.115	0.088	0.059	0.018	0.009	0.006
	Thiva	0.015	1.569	0.001	0.007	0.046	0.169	0.154	0.103	0.023	0.015	0.013

Table 9.2.4- 62: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:3 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.002	1.737	0.000	0.073	0.025	0.180	0.120	0.045	0.272	0.013
	Hamburg	0.019	2.107	0.003	0.172	0.058	0.198	0.132	0.114	0.518	0.014
	Jokioinen	0.001	1.932	0.006	0.142	0.050	0.237	0.158	0.148	0.599	0.012
	Kremsmunster	0.011	1.661	0.001	0.095	0.031	0.143	0.095	0.057	0.312	0.011
	Okehampton	0.023	1.536	0.003	0.122	0.039	0.114	0.076	0.062	0.289	0.009
	Piacenza	0.015	1.282	0.002	0.083	0.026	0.116	0.078	0.037	0.196	0.009
	Porto	0.004	1.044	0.001	0.057	0.018	0.067	0.044	0.026	0.140	0.006
	Seville	0.000	0.929	0.000	0.021	0.007	0.086	0.057	0.016	0.104	0.006
	Thiva	0.000	1.389	0.000	0.034	0.011	0.152	0.101	0.019	0.152	0.013

Table 9.2.4- 63: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:3 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.050	1.813	0.003	0.087	0.284	0.181	0.120	0.049	0.029	0.014
	Hamburg	0.138	2.172	0.008	0.190	0.524	0.196	0.131	0.117	0.062	0.014
	Jokioinen	0.018	1.980	0.009	0.153	0.602	0.237	0.158	0.149	0.053	0.012
	Kremsmunster	0.097	1.732	0.005	0.105	0.318	0.142	0.095	0.059	0.034	0.011
	Okehampton	0.143	1.560	0.007	0.134	0.293	0.113	0.075	0.064	0.042	0.009
	Piacenza	0.101	1.319	0.005	0.093	0.203	0.116	0.077	0.039	0.028	0.010
	Porto	0.043	1.090	0.005	0.065	0.149	0.068	0.045	0.029	0.020	0.006
	Seville	0.001	0.959	0.000	0.023	0.108	0.086	0.057	0.017	0.008	0.006
	Thiva	0.015	1.476	0.001	0.041	0.159	0.151	0.101	0.021	0.013	0.013

Table 9.2.4- 64: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:3 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	2.259	0.001	0.002	0.060	0.226	0.143	0.096	0.007	0.020	0.011
	Hamburg	0.010	2.513	0.010	0.017	0.165	0.439	0.170	0.114	0.038	0.053	0.012
	Jokioinen	0.001	2.108	0.014	0.003	0.147	0.553	0.198	0.132	0.064	0.051	0.010
	Kremsmunster	0.007	2.080	0.003	0.011	0.104	0.303	0.135	0.090	0.017	0.033	0.010
	Okehampton	0.020	1.717	0.006	0.023	0.130	0.277	0.102	0.068	0.023	0.040	0.008
	Piacenza	0.012	1.664	0.005	0.016	0.089	0.198	0.098	0.065	0.014	0.027	0.008
	Porto	0.006	1.214	0.010	0.015	0.085	0.174	0.072	0.048	0.017	0.025	0.006
	Seville	0.000	1.272	0.001	0.000	0.029	0.118	0.083	0.056	0.006	0.010	0.006
	Thiva	0.000	2.124	0.001	0.001	0.032	0.135	0.114	0.076	0.005	0.011	0.010

Table 9.2.4- 65: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 4x100 g/ha 1:3 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.026	2.269	0.002	0.011	0.070	0.228	0.140	0.094	0.008	0.023	0.011
	Hamburg	0.092	2.484	0.017	0.040	0.175	0.437	0.166	0.110	0.039	0.055	0.012
	Jokioinen	0.012	2.083	0.018	0.009	0.154	0.541	0.193	0.128	0.064	0.052	0.010
	Kremsmunster	0.075	2.050	0.007	0.029	0.112	0.304	0.131	0.088	0.018	0.035	0.010
	Okehampton	0.125	1.674	0.012	0.046	0.136	0.274	0.098	0.066	0.025	0.041	0.008
	Piacenza	0.091	1.636	0.009	0.035	0.096	0.197	0.095	0.064	0.015	0.028	0.008
	Porto	0.059	1.209	0.017	0.033	0.089	0.178	0.071	0.047	0.019	0.026	0.006
	Seville	0.000	1.251	0.001	0.000	0.030	0.118	0.080	0.054	0.006	0.010	0.006
	Thiva	0.007	2.096	0.001	0.004	0.036	0.139	0.112	0.074	0.005	0.012	0.010

Table 9.2.4- 66: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:3 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	2.194	0.000	0.053	0.218	0.140	0.094	0.006	0.018	0.011
	Hamburg	0.010	2.441	0.006	0.151	0.425	0.169	0.112	0.035	0.050	0.012
	Jokioinen	0.001	2.064	0.012	0.139	0.555	0.201	0.134	0.063	0.049	0.010
	Kremsmunster	0.007	2.020	0.001	0.095	0.291	0.134	0.089	0.016	0.031	0.010
	Okehampton	0.020	1.670	0.004	0.119	0.269	0.101	0.067	0.021	0.038	0.008
	Piacenza	0.012	1.603	0.003	0.081	0.191	0.097	0.064	0.012	0.025	0.008
	Porto	0.006	1.179	0.006	0.077	0.165	0.070	0.047	0.015	0.023	0.006
	Seville	0.000	1.231	0.000	0.026	0.112	0.081	0.054	0.005	0.009	0.006
	Thiva	0.000	2.053	0.000	0.029	0.127	0.112	0.075	0.004	0.010	0.010

Table 9.2.4- 67: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:3 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.026	2.204	0.002	0.062	0.220	0.138	0.092	0.008	0.021	0.011
	Hamburg	0.092	2.422	0.012	0.163	0.425	0.164	0.109	0.037	0.053	0.012
	Jokioinen	0.012	2.057	0.015	0.146	0.544	0.196	0.130	0.063	0.050	0.010
	Kremsmunster	0.075	2.008	0.005	0.103	0.293	0.131	0.087	0.017	0.033	0.010
	Okehampton	0.125	1.640	0.008	0.127	0.267	0.097	0.065	0.023	0.039	0.008
	Piacenza	0.091	1.581	0.006	0.088	0.191	0.094	0.063	0.013	0.027	0.008
	Porto	0.059	1.176	0.012	0.082	0.170	0.069	0.046	0.017	0.025	0.006
	Seville	0.000	1.208	0.001	0.027	0.113	0.079	0.052	0.005	0.009	0.006
	Thiva	0.007	2.030	0.001	0.032	0.131	0.110	0.073	0.005	0.011	0.010

Table 9.2.4- 68: FOCUS MACRO, PECgw results of fluopicolide – 4 x 100 g/ha 1:3 year, early application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0049

<u>1:3 year rotation – Late window</u>

Table 9.2.4- 69: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:3 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	0.934	0.000	0.002	0.043	0.155	0.098	0.065	0.026	0.015	0.007
	Hamburg	0.008	1.189	0.003	0.012	0.100	0.293	0.108	0.072	0.067	0.032	0.007
	Jokioinen	0.000	1.014	0.004	0.002	0.078	0.334	0.131	0.087	0.081	0.028	0.006
	Kremsmunster	0.004	0.936	0.001	0.006	0.054	0.169	0.076	0.051	0.033	0.018	0.006
	Okehampton	0.010	0.867	0.003	0.012	0.073	0.169	0.065	0.043	0.037	0.023	0.005
	Piacenza	0.007	0.742	0.002	0.009	0.051	0.123	0.070	0.047	0.025	0.016	0.005
	Porto	0.001	0.598	0.001	0.004	0.036	0.083	0.039	0.026	0.017	0.012	0.003
	Seville	0.000	0.534	0.000	0.000	0.012	0.065	0.051	0.034	0.010	0.005	0.003
	Thiva	0.000	0.783	0.000	0.001	0.024	0.104	0.090	0.060	0.014	0.008	0.007

Table 9.2.4- 70: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:3 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.018	0.980	0.002	0.008	0.051	0.161	0.099	0.066	0.028	0.017	0.007
	Hamburg	0.065	1.215	0.006	0.028	0.109	0.295	0.107	0.072	0.068	0.034	0.008
	Jokioinen	0.007	1.043	0.006	0.006	0.084	0.337	0.130	0.087	0.083	0.030	0.006
	Kremsmunster	0.043	0.975	0.003	0.017	0.060	0.172	0.076	0.050	0.034	0.019	0.006
	Okehampton	0.068	0.879	0.005	0.027	0.079	0.170	0.064	0.043	0.038	0.024	0.005
	Piacenza	0.049	0.783	0.004	0.020	0.055	0.127	0.070	0.047	0.025	0.016	0.006
	Porto	0.017	0.621	0.004	0.010	0.041	0.089	0.039	0.026	0.019	0.013	0.003
	Seville	0.000	0.551	0.000	0.000	0.014	0.068	0.051	0.034	0.011	0.005	0.003
	Thiva	0.005	0.831	0.001	0.003	0.029	0.108	0.091	0.061	0.015	0.009	0.007

Table 9.2.4- 71: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:3 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	0.895	0.000	0.039	0.014	0.097	0.064	0.025	0.152	0.007
	Hamburg	0.008	1.148	0.002	0.094	0.031	0.108	0.072	0.066	0.291	0.007
	Jokioinen	0.000	0.984	0.003	0.074	0.027	0.131	0.087	0.080	0.327	0.006
	Kremsmunster	0.004	0.895	0.000	0.050	0.017	0.076	0.051	0.033	0.167	0.006
	Okehampton	0.010	0.844	0.001	0.069	0.022	0.064	0.043	0.036	0.167	0.005
	Piacenza	0.007	0.713	0.001	0.048	0.015	0.069	0.046	0.024	0.121	0.005
	Porto	0.001	0.573	0.001	0.032	0.011	0.038	0.025	0.015	0.078	0.003
	Seville	0.000	0.508	0.000	0.011	0.004	0.050	0.033	0.009	0.061	0.003
	Thiva	0.000	0.755	0.000	0.021	0.007	0.087	0.058	0.013	0.099	0.007

Table 9.2.4- 72: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:3 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.018	0.938	0.001	0.046	0.158	0.098	0.065	0.027	0.016	0.007
	Hamburg	0.065	1.186	0.004	0.104	0.293	0.107	0.072	0.068	0.033	0.008
	Jokioinen	0.007	1.015	0.004	0.080	0.331	0.130	0.087	0.081	0.028	0.006
	Kremsmunster	0.043	0.935	0.002	0.056	0.171	0.076	0.050	0.034	0.018	0.006
	Okehampton	0.068	0.861	0.004	0.075	0.169	0.064	0.042	0.037	0.023	0.005
	Piacenza	0.049	0.753	0.003	0.052	0.125	0.069	0.046	0.025	0.016	0.006
	Porto	0.017	0.600	0.002	0.037	0.084	0.039	0.026	0.017	0.012	0.003
	Seville	0.000	0.524	0.000	0.013	0.064	0.050	0.034	0.010	0.005	0.003
	Thiva	0.005	0.792	0.000	0.026	0.105	0.088	0.059	0.014	0.008	0.007

Table 9.2.4- 73: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:3 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	1.155	0.000	0.001	0.032	0.125	0.077	0.051	0.004	0.011	0.006
	Hamburg	0.004	1.345	0.005	0.009	0.088	0.249	0.095	0.064	0.022	0.028	0.007
	Jokioinen	0.000	1.088	0.007	0.001	0.073	0.293	0.107	0.072	0.035	0.026	0.005
	Kremsmunster	0.002	1.098	0.001	0.005	0.054	0.164	0.073	0.049	0.010	0.017	0.005
	Okehampton	0.009	0.943	0.003	0.012	0.071	0.156	0.057	0.038	0.014	0.022	0.005
	Piacenza	0.005	0.897	0.003	0.009	0.051	0.120	0.057	0.038	0.009	0.015	0.004
	Porto	0.002	0.651	0.005	0.007	0.048	0.100	0.040	0.027	0.010	0.014	0.003
	Seville	0.000	0.694	0.000	0.000	0.016	0.070	0.048	0.032	0.004	0.006	0.003
	Thiva	0.000	1.076	0.000	0.000	0.019	0.086	0.067	0.045	0.003	0.007	0.005

Table 9.2.4- 74: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:3 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.008	1.140	0.001	0.005	0.036	0.125	0.075	0.050	0.005	0.012	0.006
	Hamburg	0.044	1.336	0.008	0.021	0.093	0.246	0.093	0.062	0.023	0.030	0.007
	Jokioinen	0.005	1.100	0.009	0.004	0.076	0.286	0.104	0.069	0.034	0.027	0.005
	Kremsmunster	0.031	1.098	0.003	0.013	0.058	0.163	0.071	0.048	0.011	0.018	0.005
	Okehampton	0.061	0.928	0.006	0.025	0.074	0.153	0.055	0.036	0.015	0.023	0.005
	Piacenza	0.040	0.893	0.005	0.018	0.053	0.118	0.056	0.037	0.010	0.016	0.004
	Porto	0.022	0.652	0.008	0.015	0.050	0.102	0.040	0.026	0.011	0.015	0.003
	Seville	0.000	0.676	0.000	0.000	0.016	0.070	0.046	0.031	0.004	0.006	0.003
	Thiva	0.002	1.044	0.001	0.001	0.021	0.085	0.065	0.043	0.004	0.007	0.005

Table 9.2.4- 75: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:3 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	1.128	0.000	0.029	0.122	0.076	0.051	0.004	0.010	0.006
	Hamburg	0.004	1.310	0.003	0.085	0.244	0.095	0.063	0.022	0.027	0.007
	Jokioinen	0.000	1.064	0.006	0.070	0.293	0.107	0.072	0.036	0.026	0.005
	Kremsmunster	0.002	1.064	0.001	0.051	0.164	0.073	0.049	0.010	0.017	0.005
	Okehampton	0.009	0.920	0.002	0.067	0.155	0.056	0.038	0.014	0.021	0.005
	Piacenza	0.005	0.872	0.002	0.048	0.119	0.056	0.038	0.009	0.015	0.004
	Porto	0.002	0.629	0.002	0.044	0.095	0.040	0.026	0.009	0.014	0.003
	Seville	0.000	0.665	0.000	0.014	0.067	0.047	0.031	0.003	0.005	0.003
	Thiva	0.000	1.055	0.000	0.017	0.081	0.065	0.044	0.003	0.006	0.005

Table 9.2.4- 76: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 4 x 100 g/ha 1:3 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.008	1.112	0.001	0.033	0.123	0.074	0.050	0.004	0.011	0.006
	Hamburg	0.044	1.306	0.006	0.090	0.244	0.092	0.062	0.022	0.028	0.007
	Jokioinen	0.005	1.076	0.008	0.074	0.286	0.104	0.070	0.035	0.026	0.005
	Kremsmunster	0.031	1.064	0.002	0.054	0.162	0.071	0.047	0.010	0.017	0.005
	Okehampton	0.061	0.912	0.004	0.070	0.153	0.055	0.036	0.014	0.022	0.005
	Piacenza	0.040	0.868	0.004	0.051	0.118	0.055	0.036	0.010	0.016	0.004
	Porto	0.022	0.633	0.005	0.046	0.097	0.039	0.026	0.010	0.014	0.003
	Seville	0.000	0.649	0.000	0.015	0.067	0.045	0.030	0.003	0.005	0.003
	Thiva	0.002	1.025	0.000	0.018	0.081	0.063	0.042	0.003	0.006	0.005

Table 9.2.4- 77: FOCUS MACRO, PECgw results of fluopicolide – 4 x 100 g/ha 1:3 year, late application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0026

Potatoes 3 x 100 g / ha

1:1 year rotation – Early window

Table 9.2.4- 78: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:1 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.011	4.934	0.003	0.014	0.234	0.750	0.482	0.321	0.129	0.079	0.035
	Hamburg	0.080	6.099	0.021	0.074	0.516	1.666	0.656	0.437	0.365	0.166	0.040
	Jokioinen	0.000	5.047	0.016	0.010	0.435	1.699	0.740	0.493	0.423	0.152	0.030
	Kremsmunster	0.048	4.665	0.007	0.039	0.296	0.806	0.371	0.248	0.154	0.094	0.029
	Okehampton	0.096	4.332	0.016	0.080	0.362	0.834	0.335	0.223	0.172	0.111	0.025
	Piacenza	0.062	3.587	0.010	0.051	0.238	0.554	0.321	0.214	0.100	0.072	0.026
	Porto	0.020	3.074	0.012	0.032	0.172	0.421	0.206	0.137	0.078	0.054	0.016
	Seville	0.000	3.190	0.001	0.001	0.070	0.287	0.232	0.154	0.046	0.025	0.018
	Thiva	0.003	3.824	0.001	0.005	0.095	0.449	0.380	0.253	0.057	0.033	0.034

Table 9.2.4- 79: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:1 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.200	5.099	0.012	0.061	0.274	0.775	0.482	0.321	0.137	0.089	0.036
	Hamburg	0.498	6.188	0.039	0.163	0.548	1.673	0.646	0.430	0.371	0.175	0.041
	Jokioinen	0.037	5.124	0.033	0.034	0.467	1.737	0.737	0.491	0.425	0.156	0.030
	Kremsmunster	0.365	4.723	0.020	0.108	0.320	0.816	0.367	0.244	0.159	0.100	0.029
	Okehampton	0.500	4.368	0.031	0.157	0.380	0.842	0.328	0.219	0.178	0.115	0.025
	Piacenza	0.358	3.650	0.020	0.107	0.259	0.570	0.320	0.214	0.105	0.077	0.026
	Porto	0.180	3.149	0.027	0.074	0.192	0.444	0.207	0.138	0.087	0.059	0.016
	Seville	0.005	3.280	0.001	0.004	0.080	0.298	0.231	0.154	0.049	0.027	0.018
	Thiva	0.071	4.004	0.005	0.025	0.118	0.477	0.379	0.252	0.063	0.039	0.034

Table 9.2.4- 80: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:1 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.011	4.743	0.001	0.210	0.072	0.477	0.318	0.119	0.718	0.035
	Hamburg	0.080	5.887	0.012	0.477	0.157	0.652	0.434	0.353	1.632	0.040
	Jokioinen	0.000	4.919	0.011	0.415	0.149	0.740	0.493	0.424	1.701	0.030
	Kremsmunster	0.048	4.516	0.004	0.273	0.088	0.369	0.246	0.147	0.784	0.029
	Okehampton	0.096	4.227	0.009	0.333	0.104	0.332	0.221	0.164	0.807	0.025
	Piacenza	0.062	3.404	0.005	0.215	0.066	0.314	0.209	0.095	0.528	0.026
	Porto	0.020	2.951	0.006	0.154	0.049	0.202	0.135	0.071	0.397	0.016
	Seville	0.000	3.015	0.000	0.063	0.022	0.226	0.150	0.042	0.271	0.018
	Thiva	0.003	3.602	0.001	0.084	0.029	0.372	0.248	0.052	0.426	0.034

Table 9.2.4- 81: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:1 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.200	4.905	0.009	0.248	0.745	0.477	0.318	0.128	0.082	0.036
	Hamburg	0.498	6.035	0.026	0.517	1.646	0.643	0.429	0.361	0.167	0.041
	Jokioinen	0.037	5.026	0.025	0.447	1.727	0.737	0.491	0.427	0.153	0.030
	Kremsmunster	0.365	4.588	0.014	0.299	0.797	0.365	0.243	0.153	0.094	0.029
	Okehampton	0.500	4.262	0.022	0.356	0.819	0.326	0.218	0.171	0.109	0.025
	Piacenza	0.358	3.484	0.013	0.237	0.547	0.314	0.209	0.099	0.071	0.026
	Porto	0.180	3.037	0.019	0.175	0.422	0.204	0.136	0.081	0.054	0.016
	Seville	0.005	3.106	0.001	0.073	0.281	0.225	0.150	0.045	0.025	0.018
	Thiva	0.071	3.773	0.003	0.106	0.453	0.371	0.247	0.058	0.035	0.034

Table 9.2.4- 82: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:1 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.005	6.373	0.002	0.006	0.183	0.619	0.373	0.249	0.022	0.062	0.030
	Hamburg	0.039	6.980	0.033	0.053	0.451	1.194	0.487	0.325	0.098	0.143	0.033
	Jokioinen	0.000	5.421	0.033	0.008	0.418	1.548	0.634	0.423	0.173	0.141	0.026
	Kremsmunster	0.032	5.559	0.008	0.033	0.296	0.810	0.356	0.238	0.048	0.095	0.026
	Okehampton	0.082	4.620	0.021	0.078	0.348	0.782	0.296	0.197	0.062	0.104	0.022
	Piacenza	0.055	4.439	0.016	0.051	0.229	0.519	0.270	0.180	0.035	0.070	0.021
	Porto	0.033	3.333	0.036	0.055	0.226	0.476	0.209	0.140	0.042	0.068	0.016
	Seville	0.000	3.807	0.002	0.001	0.074	0.301	0.227	0.151	0.015	0.026	0.018
	Thiva	0.001	5.596	0.001	0.003	0.088	0.381	0.292	0.195	0.014	0.030	0.026

Table 9.2.4- 83: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:1 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.114	6.371	0.007	0.034	0.205	0.631	0.366	0.244	0.026	0.067	0.030
	Hamburg	0.354	6.870	0.053	0.123	0.473	1.193	0.472	0.314	0.103	0.146	0.033
	Jokioinen	0.031	5.356	0.043	0.027	0.429	1.519	0.619	0.413	0.173	0.140	0.026
	Kremsmunster	0.288	5.495	0.020	0.086	0.318	0.803	0.346	0.231	0.051	0.097	0.026
	Okehampton	0.428	4.497	0.036	0.147	0.353	0.767	0.284	0.189	0.064	0.105	0.021
	Piacenza	0.330	4.395	0.026	0.105	0.244	0.521	0.265	0.176	0.037	0.072	0.021
	Porto	0.255	3.235	0.055	0.113	0.234	0.477	0.204	0.136	0.045	0.069	0.015
	Seville	0.001	3.770	0.002	0.002	0.082	0.304	0.222	0.148	0.016	0.027	0.018
	Thiva	0.040	5.534	0.004	0.016	0.101	0.388	0.284	0.189	0.015	0.034	0.026

Table 9.2.4- 84: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:1 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.005	6.183	0.001	0.164	0.594	0.368	0.246	0.019	0.056	0.030
	Hamburg	0.039	6.807	0.021	0.420	1.160	0.481	0.320	0.090	0.134	0.033
	Jokioinen	0.000	5.384	0.026	0.397	1.542	0.636	0.424	0.170	0.137	0.026
	Kremsmunster	0.032	5.409	0.005	0.274	0.784	0.352	0.235	0.044	0.089	0.026
	Okehampton	0.082	4.506	0.013	0.322	0.759	0.293	0.196	0.057	0.098	0.022
	Piacenza	0.055	4.314	0.011	0.208	0.495	0.266	0.178	0.032	0.065	0.021
	Porto	0.033	3.234	0.020	0.206	0.453	0.206	0.138	0.038	0.063	0.016
	Seville	0.000	3.656	0.001	0.066	0.283	0.222	0.148	0.013	0.023	0.018
	Thiva	0.001	5.414	0.001	0.079	0.360	0.285	0.190	0.012	0.027	0.026

Table 9.2.4- 85: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:1 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.114	6.182	0.005	0.101	0.607	0.361	0.240	0.023	0.061	0.030
	Hamburg	0.354	6.729	0.038	0.250	1.163	0.467	0.311	0.096	0.139	0.033
	Jokioinen	0.031	5.323	0.035	0.228	1.512	0.621	0.414	0.170	0.136	0.026
	Kremsmunster	0.288	5.350	0.015	0.159	0.783	0.343	0.229	0.047	0.092	0.026
	Okehampton	0.428	4.416	0.027	0.192	0.748	0.283	0.188	0.060	0.100	0.021
	Piacenza	0.330	4.282	0.019	0.132	0.500	0.260	0.173	0.034	0.067	0.021
	Porto	0.255	3.159	0.040	0.120	0.456	0.201	0.134	0.041	0.065	0.015
	Seville	0.001	3.622	0.001	0.036	0.286	0.216	0.144	0.014	0.025	0.018
	Thiva	0.040	5.356	0.003	0.046	0.367	0.277	0.184	0.014	0.031	0.026

Table 9.2.4- 86: FOCUS MACRO, PECgw results of fluopicolide – 3 x 100 g/ha 1:1 year, early application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0199

1:1 year rotation – Late window

Table 9.2.4- 87: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:1 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.002	2.255	0.001	0.004	0.108	0.359	0.229	0.153	0.062	0.037	0.016
	Hamburg	0.026	2.790	0.009	0.030	0.237	0.780	0.309	0.206	0.172	0.076	0.019
	Jokioinen	0.000	2.311	0.006	0.004	0.188	0.802	0.351	0.234	0.193	0.068	0.014
	Kremsmunster	0.015	2.156	0.003	0.015	0.132	0.384	0.177	0.118	0.073	0.042	0.013
	Okehampton	0.034	2.017	0.007	0.034	0.172	0.403	0.162	0.108	0.085	0.052	0.012
	Piacenza	0.024	1.676	0.005	0.023	0.120	0.290	0.161	0.107	0.056	0.037	0.013
	Porto	0.005	1.453	0.005	0.012	0.083	0.211	0.100	0.066	0.039	0.027	0.007
	Seville	0.000	1.515	0.000	0.000	0.034	0.160	0.116	0.077	0.024	0.012	0.009
	Thiva	0.000	1.784	0.000	0.001	0.047	0.235	0.192	0.128	0.032	0.016	0.016

Table 9.2.4- 88: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:1 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.065	2.346	0.004	0.022	0.124	0.370	0.231	0.154	0.066	0.041	0.017
	Hamburg	0.194	2.878	0.017	0.071	0.256	0.783	0.305	0.203	0.174	0.080	0.019
	Jokioinen	0.007	2.358	0.012	0.012	0.204	0.823	0.351	0.234	0.194	0.070	0.014
	Kremsmunster	0.136	2.217	0.008	0.044	0.144	0.390	0.175	0.117	0.076	0.045	0.014
	Okehampton	0.201	2.017	0.014	0.071	0.180	0.408	0.160	0.107	0.087	0.056	0.012
	Piacenza	0.155	1.713	0.010	0.052	0.130	0.294	0.160	0.107	0.056	0.039	0.013
	Porto	0.062	1.493	0.011	0.029	0.094	0.226	0.101	0.067	0.044	0.029	0.008
	Seville	0.001	1.560	0.000	0.001	0.038	0.165	0.116	0.078	0.026	0.013	0.009
	Thiva	0.021	1.894	0.002	0.009	0.057	0.245	0.194	0.129	0.034	0.019	0.017

Table 9.2.4- 89: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:1 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.002	2.162	0.000	0.098	0.034	0.226	0.151	0.060	0.349	0.016
	Hamburg	0.026	2.706	0.005	0.222	0.073	0.308	0.205	0.172	0.780	0.019
	Jokioinen	0.000	2.245	0.004	0.178	0.065	0.349	0.233	0.195	0.792	0.014
	Kremsmunster	0.015	2.090	0.001	0.123	0.040	0.176	0.117	0.071	0.379	0.013
	Okehampton	0.034	1.980	0.004	0.164	0.051	0.162	0.108	0.083	0.398	0.012
	Piacenza	0.024	1.625	0.002	0.114	0.036	0.161	0.107	0.055	0.288	0.013
	Porto	0.005	1.401	0.002	0.075	0.024	0.097	0.065	0.036	0.199	0.007
	Seville	0.000	1.459	0.000	0.030	0.011	0.114	0.076	0.023	0.152	0.009
	Thiva	0.000	1.707	0.000	0.042	0.015	0.190	0.127	0.030	0.226	0.016

Table 9.2.4- 90: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:1 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.065	2.253	0.003	0.113	0.360	0.228	0.152	0.064	0.038	0.017
	Hamburg	0.194	2.797	0.011	0.244	0.782	0.305	0.203	0.174	0.077	0.019
	Jokioinen	0.007	2.296	0.009	0.193	0.811	0.349	0.233	0.195	0.068	0.014
	Kremsmunster	0.136	2.151	0.006	0.136	0.385	0.174	0.116	0.074	0.043	0.014
	Okehampton	0.201	1.980	0.010	0.173	0.404	0.160	0.107	0.086	0.054	0.012
	Piacenza	0.155	1.655	0.006	0.124	0.292	0.160	0.107	0.056	0.038	0.013
	Porto	0.062	1.446	0.007	0.086	0.216	0.099	0.066	0.041	0.027	0.008
	Seville	0.001	1.505	0.000	0.034	0.157	0.115	0.077	0.024	0.012	0.009
	Thiva	0.021	1.799	0.001	0.051	0.236	0.191	0.127	0.033	0.018	0.017

Table 9.2.4- 91: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:1 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	2.848	0.001	0.002	0.084	0.292	0.173	0.116	0.011	0.028	0.013
	Hamburg	0.012	3.214	0.015	0.022	0.209	0.559	0.232	0.154	0.050	0.067	0.015
	Jokioinen	0.000	2.447	0.013	0.003	0.186	0.722	0.299	0.200	0.081	0.065	0.012
	Kremsmunster	0.009	2.545	0.003	0.013	0.130	0.384	0.169	0.112	0.024	0.042	0.012
	Okehampton	0.030	2.182	0.009	0.034	0.170	0.379	0.142	0.094	0.033	0.050	0.010
	Piacenza	0.020	2.049	0.008	0.023	0.119	0.277	0.136	0.090	0.022	0.036	0.010
	Porto	0.009	1.571	0.015	0.020	0.111	0.236	0.100	0.067	0.022	0.034	0.007
	Seville	0.000	1.811	0.001	0.000	0.033	0.154	0.115	0.076	0.008	0.012	0.009
	Thiva	0.000	2.634	0.001	0.001	0.045	0.209	0.151	0.100	0.008	0.016	0.012

Table 9.2.4- 92: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:1 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.032	2.831	0.002	0.011	0.092	0.291	0.169	0.113	0.013	0.031	0.013
	Hamburg	0.136	3.190	0.024	0.055	0.221	0.562	0.225	0.150	0.051	0.069	0.015
	Jokioinen	0.007	2.414	0.017	0.010	0.191	0.712	0.293	0.195	0.080	0.064	0.012
	Kremsmunster	0.103	2.506	0.008	0.034	0.142	0.379	0.164	0.109	0.025	0.044	0.012
	Okehampton	0.177	2.149	0.016	0.067	0.172	0.372	0.136	0.091	0.034	0.051	0.010
	Piacenza	0.136	2.046	0.013	0.048	0.124	0.274	0.130	0.087	0.022	0.036	0.010
	Porto	0.080	1.525	0.022	0.044	0.113	0.234	0.098	0.066	0.023	0.034	0.007
	Seville	0.000	1.786	0.001	0.000	0.036	0.155	0.112	0.074	0.008	0.013	0.008
	Thiva	0.008	2.577	0.001	0.004	0.048	0.208	0.146	0.097	0.009	0.016	0.012

Table 9.2.4- 93: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:1 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	2.762	0.000	0.076	0.286	0.172	0.114	0.010	0.026	0.013
	Hamburg	0.012	3.140	0.009	0.199	0.548	0.231	0.154	0.050	0.064	0.015
	Jokioinen	0.000	2.413	0.011	0.179	0.720	0.298	0.198	0.081	0.063	0.012
	Kremsmunster	0.009	2.477	0.002	0.120	0.381	0.168	0.112	0.024	0.040	0.012
	Okehampton	0.030	2.142	0.006	0.160	0.374	0.142	0.094	0.031	0.049	0.010
	Piacenza	0.020	1.985	0.004	0.114	0.274	0.135	0.090	0.021	0.036	0.010
	Porto	0.009	1.527	0.007	0.102	0.226	0.098	0.066	0.020	0.031	0.007
	Seville	0.000	1.754	0.000	0.030	0.145	0.112	0.074	0.007	0.011	0.009
	Thiva	0.000	2.539	0.000	0.040	0.199	0.148	0.099	0.007	0.014	0.012

Table 9.2.4- 94: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:1 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.032	2.741	0.002	0.084	0.284	0.167	0.112	0.012	0.028	0.013
	Hamburg	0.136	3.127	0.017	0.209	0.552	0.224	0.150	0.051	0.067	0.015
	Jokioinen	0.007	2.394	0.014	0.184	0.709	0.291	0.194	0.080	0.063	0.012
	Kremsmunster	0.103	2.448	0.006	0.132	0.376	0.163	0.108	0.024	0.042	0.012
	Okehampton	0.177	2.123	0.012	0.168	0.369	0.136	0.091	0.033	0.049	0.010
	Piacenza	0.136	1.983	0.009	0.120	0.272	0.131	0.087	0.022	0.036	0.010
	Porto	0.080	1.497	0.015	0.105	0.226	0.096	0.064	0.021	0.032	0.007
	Seville	0.000	1.720	0.000	0.032	0.146	0.109	0.072	0.007	0.011	0.008
	Thiva	0.008	2.487	0.001	0.044	0.199	0.143	0.095	0.008	0.015	0.012

Table 9.2.4- 95: FOCUS MACRO, PECgw results of fluopicolide – 3 x 100 g/ha 1:1 year, late application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0078

<u>1:2 year rotation – Early window</u>

Table 9.2.4- 96: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:2 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.003	2.379	0.001	0.006	0.108	0.373	0.249	0.166	0.061	0.037	0.017
	Hamburg	0.028	2.962	0.009	0.033	0.246	0.762	0.295	0.197	0.166	0.080	0.019
	Jokioinen	0.001	2.544	0.011	0.004	0.202	0.829	0.355	0.237	0.199	0.070	0.016
	Kremsmunster	0.016	2.239	0.003	0.018	0.136	0.401	0.179	0.119	0.075	0.043	0.014
	Okehampton	0.033	2.120	0.007	0.034	0.177	0.394	0.154	0.102	0.085	0.055	0.012
	Piacenza	0.021	1.775	0.004	0.022	0.116	0.271	0.150	0.100	0.050	0.036	0.013
	Porto	0.006	1.453	0.005	0.013	0.082	0.197	0.094	0.062	0.038	0.026	0.007
	Seville	0.000	1.402	0.000	0.000	0.031	0.138	0.114	0.076	0.021	0.011	0.008
	Thiva	0.001	1.875	0.001	0.002	0.048	0.190	0.199	0.132	0.023	0.016	0.016

Table 9.2.4- 97: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:2 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.071	2.487	0.005	0.026	0.126	0.391	0.252	0.168	0.066	0.041	0.018
	Hamburg	0.197	3.008	0.016	0.074	0.265	0.768	0.291	0.194	0.171	0.084	0.019
	Jokioinen	0.027	2.637	0.017	0.015	0.218	0.851	0.356	0.237	0.206	0.074	0.016
	Kremsmunster	0.143	2.299	0.008	0.046	0.150	0.407	0.179	0.119	0.079	0.046	0.014
	Okehampton	0.197	2.143	0.014	0.069	0.188	0.397	0.151	0.101	0.087	0.057	0.012
	Piacenza	0.139	1.832	0.009	0.047	0.127	0.278	0.150	0.100	0.053	0.038	0.013
	Porto	0.065	1.506	0.011	0.032	0.092	0.212	0.095	0.063	0.042	0.028	0.008
	Seville	0.001	1.457	0.001	0.002	0.035	0.144	0.114	0.076	0.023	0.012	0.009
	Thiva	0.021	1.956	0.002	0.009	0.059	0.205	0.198	0.132	0.027	0.019	0.016

Table 9.2.4- 98: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:2 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.003	2.282	0.000	0.097	0.033	0.246	0.164	0.057	0.358	0.017
	Hamburg	0.028	2.868	0.005	0.228	0.075	0.293	0.195	0.160	0.743	0.019
	Jokioinen	0.001	2.472	0.007	0.193	0.067	0.349	0.233	0.195	0.818	0.016
	Kremsmunster	0.016	2.156	0.001	0.124	0.040	0.176	0.117	0.072	0.389	0.014
	Okehampton	0.033	2.055	0.004	0.164	0.052	0.152	0.101	0.081	0.381	0.012
	Piacenza	0.021	1.685	0.002	0.105	0.033	0.147	0.098	0.047	0.261	0.013
	Porto	0.006	1.393	0.002	0.073	0.023	0.091	0.061	0.035	0.184	0.007
	Seville	0.000	1.327	0.000	0.028	0.010	0.111	0.074	0.019	0.130	0.008
	Thiva	0.001	1.762	0.000	0.042	0.014	0.196	0.131	0.022	0.179	0.016

Table 9.2.4- 99: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:2 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.071	2.399	0.004	0.113	0.376	0.249	0.166	0.061	0.038	0.018
	Hamburg	0.197	2.928	0.011	0.248	0.753	0.290	0.193	0.165	0.080	0.019
	Jokioinen	0.027	2.569	0.013	0.208	0.840	0.350	0.233	0.202	0.071	0.016
	Kremsmunster	0.143	2.221	0.006	0.138	0.397	0.176	0.117	0.076	0.044	0.014
	Okehampton	0.197	2.083	0.010	0.177	0.386	0.150	0.100	0.083	0.055	0.012
	Piacenza	0.139	1.748	0.006	0.117	0.269	0.146	0.098	0.049	0.036	0.013
	Porto	0.065	1.444	0.008	0.084	0.199	0.093	0.062	0.039	0.026	0.008
	Seville	0.001	1.375	0.000	0.032	0.135	0.111	0.074	0.021	0.011	0.009
	Thiva	0.021	1.835	0.001	0.052	0.191	0.196	0.130	0.024	0.017	0.016

Table 9.2.4- 100: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:2 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	1.935	0.001	0.003	0.083	0.288	0.193	0.128	0.010	0.028	0.009
	Hamburg	0.016	2.158	0.013	0.026	0.216	0.598	0.242	0.161	0.048	0.070	0.010
	Jokioinen	0.001	1.807	0.019	0.004	0.196	0.712	0.313	0.209	0.082	0.065	0.009
	Kremsmunster	0.010	1.787	0.004	0.013	0.136	0.396	0.177	0.118	0.023	0.043	0.009
	Okehampton	0.029	1.475	0.009	0.031	0.169	0.369	0.133	0.089	0.031	0.052	0.007
	Piacenza	0.017	1.428	0.007	0.021	0.113	0.247	0.126	0.084	0.017	0.035	0.007
	Porto	0.011	1.042	0.014	0.024	0.107	0.229	0.097	0.064	0.021	0.032	0.005
	Seville	0.000	1.090	0.001	0.000	0.030	0.143	0.110	0.074	0.007	0.011	0.005
	Thiva	0.000	1.819	0.001	0.002	0.038	0.153	0.151	0.100	0.005	0.012	0.009

Table 9.2.4- 101: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:2 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.037	2.900	0.003	0.015	0.096	0.293	0.189	0.126	0.012	0.031	0.014
	Hamburg	0.137	3.291	0.021	0.057	0.229	0.596	0.235	0.157	0.051	0.072	0.016
	Jokioinen	0.018	2.755	0.026	0.012	0.203	0.703	0.308	0.206	0.082	0.067	0.013
	Kremsmunster	0.107	2.652	0.009	0.038	0.146	0.394	0.173	0.115	0.025	0.045	0.013
	Okehampton	0.169	2.230	0.016	0.062	0.176	0.362	0.128	0.085	0.032	0.053	0.011
	Piacenza	0.122	2.216	0.011	0.046	0.122	0.251	0.122	0.082	0.019	0.036	0.010
	Porto	0.084	1.590	0.023	0.047	0.112	0.237	0.094	0.063	0.023	0.034	0.008
	Seville	0.000	1.771	0.001	0.001	0.033	0.145	0.108	0.072	0.007	0.012	0.008
	Thiva	0.010	2.484	0.002	0.006	0.044	0.157	0.147	0.098	0.006	0.014	0.012

Table 9.2.4- 102: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:2 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	2.828	0.000	0.074	0.280	0.191	0.127	0.009	0.025	0.014
	Hamburg	0.016	3.269	0.008	0.201	0.576	0.238	0.159	0.044	0.065	0.016
	Jokioinen	0.001	2.730	0.014	0.187	0.705	0.310	0.206	0.080	0.064	0.013
	Kremsmunster	0.010	2.625	0.002	0.125	0.383	0.175	0.116	0.021	0.041	0.013
	Okehampton	0.029	2.220	0.005	0.156	0.358	0.133	0.088	0.028	0.049	0.011
	Piacenza	0.017	2.154	0.005	0.103	0.236	0.122	0.082	0.015	0.032	0.011
	Porto	0.011	1.542	0.008	0.097	0.217	0.095	0.063	0.019	0.030	0.008
	Seville	0.000	1.716	0.001	0.028	0.137	0.109	0.073	0.006	0.010	0.008
	Thiva	0.000	2.429	0.000	0.033	0.144	0.149	0.099	0.005	0.011	0.012

Table 9.2.4- 103: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:2 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.037	2.813	0.002	0.086	0.286	0.187	0.125	0.010	0.028	0.014
	Hamburg	0.137	3.226	0.015	0.214	0.577	0.232	0.154	0.047	0.069	0.016
	Jokioinen	0.018	2.710	0.020	0.195	0.703	0.305	0.203	0.080	0.065	0.013
	Kremsmunster	0.107	2.601	0.006	0.136	0.384	0.171	0.114	0.023	0.043	0.013
	Okehampton	0.169	2.178	0.011	0.164	0.353	0.128	0.085	0.029	0.050	0.011
	Piacenza	0.122	2.144	0.008	0.113	0.240	0.119	0.080	0.017	0.034	0.010
	Porto	0.084	1.534	0.016	0.103	0.226	0.092	0.062	0.021	0.031	0.008
	Seville	0.000	1.694	0.001	0.030	0.139	0.106	0.070	0.007	0.011	0.008
	Thiva	0.010	2.400	0.001	0.039	0.148	0.144	0.096	0.005	0.013	0.012

Table 9.2.4- 104: FOCUS MACRO, PECgw results of fluopicolide – 3 x 100 g/ha 1:2 year, early application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0057

<u>**1:2 year rotation – Late window**</u>

Table 9.2.4- 105: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:2 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	1.059	0.000	0.002	0.049	0.175	0.116	0.077	0.030	0.017	0.008
	Hamburg	0.009	1.316	0.004	0.013	0.112	0.367	0.141	0.094	0.079	0.036	0.009
	Jokioinen	0.000	1.143	0.004	0.002	0.089	0.398	0.178	0.119	0.093	0.032	0.007
	Kremsmunster	0.004	1.021	0.001	0.006	0.063	0.194	0.088	0.058	0.037	0.020	0.006
	Okehampton	0.011	0.981	0.003	0.014	0.082	0.194	0.073	0.049	0.043	0.026	0.006
	Piacenza	0.008	0.813	0.002	0.009	0.058	0.142	0.082	0.055	0.027	0.018	0.006
	Porto	0.002	0.689	0.002	0.005	0.041	0.098	0.046	0.031	0.019	0.013	0.004
	Seville	0.000	0.666	0.000	0.000	0.014	0.073	0.056	0.037	0.011	0.005	0.004
	Thiva	0.000	0.915	0.000	0.001	0.027	0.100	0.096	0.064	0.014	0.009	0.008

Table 9.2.4- 106: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:2 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.021	1.103	0.002	0.009	0.057	0.183	0.117	0.078	0.032	0.019	0.008
	Hamburg	0.075	1.348	0.007	0.032	0.121	0.370	0.140	0.093	0.082	0.039	0.009
	Jokioinen	0.008	1.179	0.006	0.006	0.097	0.407	0.177	0.118	0.095	0.034	0.007
	Kremsmunster	0.050	1.060	0.003	0.019	0.070	0.198	0.087	0.058	0.038	0.022	0.007
	Okehampton	0.079	0.995	0.006	0.030	0.088	0.196	0.072	0.048	0.044	0.027	0.006
	Piacenza	0.060	0.842	0.004	0.022	0.062	0.143	0.083	0.055	0.027	0.018	0.006
	Porto	0.021	0.718	0.004	0.013	0.046	0.105	0.047	0.031	0.021	0.014	0.004
	Seville	0.000	0.689	0.000	0.000	0.016	0.076	0.056	0.037	0.012	0.006	0.004
	Thiva	0.005	0.965	0.001	0.003	0.033	0.106	0.096	0.064	0.015	0.011	0.008

Table 9.2.4- 107: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:2 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	1.014	0.000	0.044	0.015	0.115	0.077	0.028	0.170	0.008
	Hamburg	0.009	1.281	0.002	0.105	0.035	0.141	0.094	0.078	0.363	0.009
	Jokioinen	0.000	1.103	0.003	0.085	0.031	0.178	0.119	0.094	0.396	0.007
	Kremsmunster	0.004	0.990	0.000	0.058	0.019	0.087	0.058	0.036	0.190	0.006
	Okehampton	0.011	0.956	0.001	0.077	0.025	0.073	0.049	0.042	0.192	0.006
	Piacenza	0.008	0.788	0.001	0.055	0.017	0.081	0.054	0.026	0.140	0.006
	Porto	0.002	0.660	0.001	0.036	0.012	0.045	0.030	0.018	0.092	0.004
	Seville	0.000	0.638	0.000	0.013	0.005	0.055	0.037	0.010	0.069	0.004
	Thiva	0.000	0.885	0.000	0.024	0.008	0.095	0.063	0.013	0.095	0.008

Table 9.2.4- 108: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:2 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.021	1.058	0.001	0.052	0.177	0.117	0.078	0.031	0.018	0.008
	Hamburg	0.075	1.314	0.005	0.115	0.367	0.140	0.093	0.080	0.037	0.009
	Jokioinen	0.008	1.139	0.005	0.093	0.404	0.178	0.119	0.095	0.032	0.007
	Kremsmunster	0.050	1.027	0.002	0.065	0.194	0.087	0.058	0.038	0.020	0.007
	Okehampton	0.079	0.975	0.004	0.084	0.194	0.072	0.048	0.043	0.026	0.006
	Piacenza	0.060	0.817	0.003	0.060	0.142	0.081	0.054	0.027	0.018	0.006
	Porto	0.021	0.691	0.003	0.042	0.100	0.046	0.031	0.020	0.013	0.004
	Seville	0.000	0.660	0.000	0.015	0.072	0.056	0.037	0.011	0.005	0.004
	Thiva	0.005	0.923	0.000	0.029	0.101	0.095	0.064	0.014	0.009	0.008

Table 9.2.4- 109: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:2 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	1.339	0.000	0.001	0.036	0.140	0.087	0.058	0.005	0.012	0.006
	Hamburg	0.005	1.514	0.006	0.010	0.099	0.291	0.116	0.078	0.024	0.032	0.007
	Jokioinen	0.000	1.251	0.008	0.001	0.086	0.345	0.152	0.101	0.039	0.030	0.006
	Kremsmunster	0.003	1.211	0.002	0.005	0.063	0.190	0.086	0.058	0.011	0.020	0.006
	Okehampton	0.010	1.069	0.004	0.013	0.080	0.181	0.065	0.043	0.016	0.025	0.005
	Piacenza	0.006	1.019	0.004	0.008	0.057	0.133	0.069	0.046	0.010	0.017	0.005
	Porto	0.003	0.739	0.006	0.009	0.052	0.115	0.047	0.032	0.011	0.016	0.004
	Seville	0.000	0.841	0.000	0.000	0.015	0.074	0.054	0.036	0.004	0.005	0.004
	Thiva	0.000	1.217	0.000	0.000	0.021	0.086	0.076	0.050	0.003	0.007	0.006

Table 9.2.4- 110: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:2 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.010	1.325	0.001	0.005	0.040	0.141	0.085	0.056	0.006	0.013	0.006
	Hamburg	0.050	1.499	0.010	0.025	0.105	0.290	0.113	0.075	0.025	0.034	0.007
	Jokioinen	0.005	1.259	0.010	0.004	0.091	0.343	0.148	0.098	0.038	0.031	0.006
	Kremsmunster	0.036	1.200	0.003	0.014	0.067	0.188	0.085	0.056	0.012	0.021	0.006
	Okehampton	0.070	1.040	0.007	0.028	0.084	0.179	0.062	0.042	0.017	0.025	0.005
	Piacenza	0.052	1.011	0.005	0.020	0.059	0.132	0.068	0.045	0.011	0.018	0.005
	Porto	0.026	0.740	0.009	0.018	0.054	0.115	0.046	0.031	0.012	0.016	0.004
	Seville	0.000	0.825	0.000	0.000	0.019	0.075	0.052	0.035	0.004	0.005	0.004
	Thiva	0.002	1.186	0.001	0.002	0.024	0.087	0.073	0.049	0.004	0.008	0.006

Table 9.2.4- 111: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:2 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	1.295	0.000	0.032	0.135	0.088	0.058	0.005	0.011	0.006
	Hamburg	0.005	1.482	0.004	0.096	0.288	0.115	0.077	0.024	0.031	0.007
	Jokioinen	0.000	1.221	0.006	0.082	0.342	0.152	0.102	0.039	0.029	0.006
	Kremsmunster	0.003	1.175	0.001	0.058	0.188	0.085	0.057	0.011	0.019	0.006
	Okehampton	0.010	1.050	0.002	0.076	0.179	0.065	0.043	0.015	0.024	0.005
	Piacenza	0.006	0.995	0.002	0.055	0.132	0.068	0.045	0.010	0.017	0.005
	Porto	0.003	0.722	0.003	0.048	0.110	0.046	0.031	0.010	0.015	0.004
	Seville	0.000	0.807	0.000	0.013	0.071	0.053	0.035	0.004	0.005	0.004
	Thiva	0.000	1.167	0.000	0.019	0.081	0.074	0.049	0.003	0.006	0.006

Table 9.2.4- 112: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:2 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.010	1.283	0.001	0.036	0.136	0.085	0.056	0.005	0.012	0.006
	Hamburg	0.050	1.470	0.007	0.101	0.288	0.113	0.075	0.025	0.032	0.007
	Jokioinen	0.005	1.230	0.009	0.086	0.340	0.148	0.098	0.038	0.030	0.006
	Kremsmunster	0.036	1.169	0.002	0.062	0.186	0.083	0.056	0.011	0.020	0.006
	Okehampton	0.070	1.035	0.005	0.080	0.178	0.063	0.042	0.016	0.025	0.005
	Piacenza	0.052	0.989	0.004	0.057	0.131	0.067	0.044	0.010	0.017	0.005
	Porto	0.026	0.722	0.006	0.050	0.111	0.046	0.030	0.011	0.015	0.004
	Seville	0.000	0.794	0.000	0.014	0.072	0.052	0.034	0.004	0.005	0.004
	Thiva	0.002	1.138	0.000	0.021	0.083	0.071	0.048	0.003	0.007	0.006

Table 9.2.4- 113: FOCUS MACRO, PECgw results of fluopicolide – 3 x 100 g/ha 1:2 year, late application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0026

<u>1:3 year rotation – Early window</u>

Table 9.2.4- 114: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:3 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.002	1.552	0.001	0.004	0.069	0.242	0.157	0.105	0.041	0.024	0.011
	Hamburg	0.015	1.879	0.005	0.019	0.158	0.458	0.172	0.115	0.102	0.052	0.012
	Jokioinen	0.000	1.690	0.006	0.003	0.128	0.517	0.205	0.137	0.128	0.045	0.010
	Kremsmunster	0.008	1.487	0.002	0.011	0.088	0.274	0.124	0.083	0.051	0.028	0.009
	Okehampton	0.018	1.371	0.004	0.020	0.113	0.257	0.099	0.066	0.056	0.036	0.008
	Piacenza	0.011	1.157	0.003	0.014	0.079	0.177	0.102	0.068	0.034	0.024	0.008
	Porto	0.003	0.935	0.003	0.007	0.054	0.127	0.059	0.039	0.025	0.017	0.005
	Seville	0.000	0.837	0.000	0.000	0.019	0.094	0.076	0.051	0.014	0.007	0.005
	Thiva	0.000	1.275	0.000	0.001	0.033	0.139	0.134	0.089	0.018	0.011	0.011

Table 9.2.4- 115: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:3 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.039	1.614	0.003	0.016	0.083	0.253	0.157	0.105	0.044	0.027	0.012
	Hamburg	0.111	1.920	0.010	0.043	0.174	0.462	0.170	0.114	0.105	0.055	0.012
	Jokioinen	0.014	1.730	0.010	0.011	0.139	0.518	0.204	0.136	0.129	0.047	0.010
	Kremsmunster	0.078	1.547	0.005	0.029	0.097	0.278	0.123	0.082	0.053	0.031	0.010
	Okehampton	0.116	1.384	0.009	0.042	0.123	0.260	0.098	0.065	0.058	0.038	0.008
	Piacenza	0.081	1.179	0.006	0.031	0.086	0.184	0.102	0.068	0.035	0.026	0.008
	Porto	0.034	0.969	0.007	0.019	0.062	0.135	0.060	0.040	0.027	0.019	0.005
	Seville	0.001	0.863	0.000	0.001	0.022	0.099	0.076	0.051	0.016	0.007	0.005
	Thiva	0.011	1.340	0.001	0.005	0.039	0.145	0.133	0.089	0.020	0.013	0.011

Table 9.2.4- 116: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:3 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.002	1.489	0.000	0.062	0.022	0.156	0.104	0.039	0.235	0.011
	Hamburg	0.015	1.803	0.003	0.146	0.049	0.171	0.114	0.098	0.446	0.012
	Jokioinen	0.000	1.654	0.004	0.120	0.043	0.205	0.137	0.128	0.517	0.010
	Kremsmunster	0.008	1.420	0.001	0.081	0.026	0.123	0.082	0.049	0.269	0.009
	Okehampton	0.018	1.319	0.002	0.104	0.033	0.098	0.066	0.054	0.249	0.008
	Piacenza	0.011	1.099	0.002	0.071	0.022	0.100	0.067	0.032	0.169	0.008
	Porto	0.003	0.895	0.001	0.048	0.016	0.057	0.038	0.023	0.120	0.005
	Seville	0.000	0.791	0.000	0.017	0.006	0.074	0.049	0.013	0.089	0.005
	Thiva	0.000	1.188	0.000	0.029	0.010	0.131	0.087	0.017	0.131	0.011

Table 9.2.4- 117: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:3 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.039	1.555	0.002	0.074	0.245	0.156	0.104	0.042	0.025	0.012
	Hamburg	0.111	1.864	0.006	0.162	0.452	0.169	0.113	0.101	0.053	0.012
	Jokioinen	0.014	1.696	0.007	0.130	0.519	0.204	0.136	0.129	0.045	0.010
	Kremsmunster	0.078	1.481	0.004	0.090	0.274	0.123	0.082	0.051	0.029	0.010
	Okehampton	0.116	1.341	0.006	0.114	0.253	0.097	0.065	0.055	0.036	0.008
	Piacenza	0.081	1.132	0.004	0.079	0.174	0.100	0.066	0.033	0.024	0.008
	Porto	0.034	0.934	0.004	0.056	0.128	0.058	0.039	0.025	0.017	0.005
	Seville	0.001	0.817	0.000	0.020	0.093	0.074	0.049	0.014	0.007	0.005
	Thiva	0.011	1.261	0.001	0.035	0.137	0.130	0.087	0.018	0.011	0.011

Table 9.2.4- 118: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:3 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	1.935	0.000	0.002	0.051	0.195	0.124	0.082	0.006	0.017	0.009
	Hamburg	0.008	2.158	0.008	0.014	0.141	0.379	0.147	0.098	0.032	0.046	0.010
	Jokioinen	0.001	1.807	0.012	0.002	0.125	0.478	0.171	0.114	0.055	0.043	0.009
	Kremsmunster	0.005	1.787	0.002	0.009	0.089	0.261	0.116	0.078	0.015	0.029	0.009
	Okehampton	0.016	1.475	0.005	0.019	0.111	0.239	0.088	0.059	0.020	0.035	0.007
	Piacenza	0.009	1.428	0.004	0.013	0.076	0.170	0.085	0.056	0.012	0.023	0.007
	Porto	0.005	1.042	0.009	0.013	0.073	0.150	0.062	0.041	0.015	0.022	0.005
	Seville	0.000	1.090	0.001	0.000	0.024	0.101	0.072	0.048	0.005	0.008	0.005
	Thiva	0.000	1.819	0.001	0.001	0.027	0.116	0.098	0.066	0.004	0.009	0.009

Table 9.2.4- 119: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:3 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.020	1.945	0.002	0.009	0.059	0.197	0.121	0.081	0.007	0.020	0.009
	Hamburg	0.074	2.134	0.014	0.033	0.149	0.377	0.143	0.095	0.034	0.047	0.010
	Jokioinen	0.009	1.786	0.015	0.007	0.131	0.468	0.166	0.111	0.055	0.044	0.009
	Kremsmunster	0.060	1.761	0.006	0.024	0.096	0.262	0.113	0.076	0.016	0.030	0.009
	Okehampton	0.102	1.439	0.010	0.039	0.117	0.236	0.085	0.057	0.021	0.035	0.007
	Piacenza	0.073	1.406	0.007	0.029	0.082	0.170	0.083	0.055	0.013	0.024	0.007
	Porto	0.047	1.039	0.014	0.028	0.076	0.154	0.061	0.041	0.016	0.022	0.005
	Seville	0.000	1.067	0.001	0.000	0.026	0.102	0.070	0.046	0.005	0.009	0.005
	Thiva	0.006	1.795	0.001	0.003	0.030	0.119	0.096	0.064	0.005	0.010	0.009

Table 9.2.4- 120: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:3 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	1.880	0.000	0.045	0.188	0.121	0.081	0.005	0.016	0.009
	Hamburg	0.008	2.096	0.005	0.129	0.367	0.145	0.097	0.030	0.043	0.010
	Jokioinen	0.001	1.758	0.010	0.119	0.479	0.174	0.116	0.054	0.042	0.009
	Kremsmunster	0.005	1.727	0.001	0.081	0.251	0.116	0.077	0.013	0.027	0.009
	Okehampton	0.016	1.434	0.003	0.102	0.232	0.087	0.058	0.018	0.032	0.007
	Piacenza	0.009	1.377	0.003	0.069	0.165	0.083	0.056	0.010	0.022	0.007
	Porto	0.005	1.012	0.005	0.066	0.142	0.061	0.040	0.013	0.020	0.005
	Seville	0.000	1.055	0.000	0.022	0.096	0.070	0.046	0.004	0.008	0.005
	Thiva	0.000	1.758	0.000	0.024	0.110	0.097	0.065	0.004	0.008	0.009

Table 9.2.4- 121: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:3 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.020	1.889	0.001	0.053	0.190	0.119	0.079	0.006	0.018	0.009
	Hamburg	0.074	2.080	0.010	0.139	0.366	0.142	0.094	0.032	0.045	0.010
	Jokioinen	0.009	1.759	0.012	0.124	0.470	0.169	0.113	0.054	0.043	0.009
	Kremsmunster	0.060	1.725	0.004	0.088	0.252	0.113	0.075	0.014	0.028	0.009

	Okehampton	0.102	1.409	0.007	0.108	0.230	0.084	0.056	0.020	0.033	0.007
	Piacenza	0.073	1.359	0.005	0.075	0.165	0.082	0.054	0.011	0.023	0.007
	Porto	0.047	1.010	0.010	0.070	0.146	0.060	0.040	0.015	0.021	0.005
	Seville	0.000	1.033	0.001	0.023	0.097	0.068	0.045	0.005	0.008	0.005
	Thiva	0.006	1.738	0.001	0.027	0.113	0.095	0.063	0.004	0.009	0.009

Table 9.2.4- 122: FOCUS MACRO, PECgw results of fluopicolide – 3 x 100 g/ha 1:3 year, early application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0039

1:3 year rotation – Late window

Table 9.2.4- 123: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:3 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.689	0.000	0.001	0.032	0.116	0.073	0.049	0.020	0.011	0.005
	Hamburg	0.005	0.880	0.002	0.008	0.074	0.219	0.081	0.054	0.050	0.024	0.006
	Jokioinen	0.000	0.747	0.003	0.001	0.057	0.250	0.098	0.065	0.061	0.020	0.005
	Kremsmunster	0.002	0.694	0.001	0.004	0.040	0.126	0.057	0.038	0.024	0.013	0.004
	Okehampton	0.006	0.645	0.002	0.008	0.054	0.127	0.049	0.032	0.028	0.017	0.004
	Piacenza	0.004	0.545	0.001	0.006	0.037	0.092	0.052	0.035	0.018	0.012	0.004
	Porto	0.001	0.443	0.001	0.003	0.027	0.063	0.029	0.019	0.013	0.009	0.002
	Seville	0.000	0.395	0.000	0.000	0.009	0.049	0.038	0.025	0.008	0.003	0.002
	Thiva	0.000	0.579	0.000	0.000	0.018	0.078	0.068	0.045	0.011	0.006	0.005

Table 9.2.4- 124: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:3 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.011	0.723	0.001	0.006	0.037	0.120	0.074	0.049	0.021	0.012	0.005
	Hamburg	0.043	0.901	0.004	0.019	0.080	0.221	0.080	0.054	0.051	0.025	0.006
	Jokioinen	0.004	0.769	0.004	0.004	0.061	0.252	0.098	0.065	0.062	0.022	0.005
	Kremsmunster	0.028	0.720	0.002	0.012	0.044	0.129	0.057	0.038	0.025	0.014	0.004
	Okehampton	0.046	0.655	0.004	0.019	0.058	0.128	0.048	0.032	0.028	0.018	0.004
	Piacenza	0.032	0.576	0.003	0.014	0.040	0.095	0.053	0.035	0.018	0.012	0.004
	Porto	0.011	0.462	0.003	0.007	0.030	0.067	0.030	0.020	0.014	0.009	0.002
	Seville	0.000	0.408	0.000	0.000	0.010	0.051	0.039	0.026	0.008	0.004	0.002
	Thiva	0.003	0.613	0.000	0.002	0.021	0.081	0.068	0.046	0.011	0.007	0.005

Table 9.2.4- 125: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:3 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.662	0.000	0.029	0.010	0.073	0.048	0.019	0.114	0.005
	Hamburg	0.005	0.847	0.001	0.069	0.023	0.081	0.054	0.050	0.217	0.006
	Jokioinen	0.000	0.725	0.002	0.054	0.020	0.098	0.065	0.060	0.245	0.005
	Kremsmunster	0.002	0.664	0.000	0.037	0.012	0.057	0.038	0.024	0.125	0.004
	Okehampton	0.006	0.627	0.001	0.051	0.016	0.048	0.032	0.027	0.126	0.004
	Piacenza	0.004	0.524	0.001	0.035	0.011	0.052	0.035	0.018	0.091	0.004
	Porto	0.001	0.425	0.000	0.024	0.008	0.028	0.019	0.012	0.059	0.002
	Seville	0.000	0.373	0.000	0.008	0.003	0.038	0.025	0.007	0.046	0.002
	Thiva	0.000	0.557	0.000	0.016	0.005	0.066	0.044	0.010	0.075	0.005

Table 9.2.4- 126: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:3 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.011	0.694	0.001	0.034	0.118	0.073	0.049	0.020	0.011	0.005
	Hamburg	0.043	0.878	0.003	0.076	0.219	0.081	0.054	0.051	0.024	0.006
	Jokioinen	0.004	0.748	0.003	0.058	0.248	0.098	0.065	0.060	0.021	0.005
	Kremsmunster	0.028	0.693	0.001	0.041	0.128	0.057	0.038	0.025	0.013	0.004
	Okehampton	0.046	0.640	0.003	0.055	0.127	0.048	0.032	0.028	0.017	0.004
	Piacenza	0.032	0.553	0.002	0.039	0.093	0.052	0.035	0.019	0.012	0.004
	Porto	0.011	0.446	0.002	0.027	0.063	0.029	0.019	0.013	0.009	0.002
	Seville	0.000	0.385	0.000	0.009	0.048	0.038	0.025	0.007	0.003	0.002
	Thiva	0.003	0.586	0.000	0.019	0.079	0.067	0.044	0.011	0.006	0.005

Table 9.2.4- 127: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:3 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.852	0.000	0.001	0.024	0.094	0.058	0.038	0.003	0.008	0.004
	Hamburg	0.003	0.996	0.004	0.006	0.065	0.186	0.071	0.048	0.016	0.021	0.005
	Jokioinen	0.000	0.795	0.005	0.001	0.054	0.219	0.080	0.054	0.026	0.019	0.004
	Kremsmunster	0.002	0.814	0.001	0.003	0.040	0.123	0.055	0.037	0.008	0.013	0.004
	Okehampton	0.006	0.702	0.002	0.008	0.052	0.117	0.043	0.028	0.011	0.016	0.003
	Piacenza	0.003	0.666	0.002	0.006	0.037	0.090	0.043	0.029	0.007	0.011	0.003
	Porto	0.002	0.481	0.003	0.005	0.035	0.075	0.031	0.020	0.008	0.011	0.002
	Seville	0.000	0.517	0.000	0.000	0.011	0.053	0.036	0.024	0.003	0.004	0.003
	Thiva	0.000	0.792	0.000	0.000	0.014	0.065	0.050	0.034	0.003	0.005	0.004

Table 9.2.4- 128: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:3 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.005	0.844	0.001	0.003	0.027	0.094	0.056	0.038	0.003	0.009	0.004
	Hamburg	0.028	0.991	0.006	0.015	0.069	0.185	0.070	0.046	0.017	0.022	0.005
	Jokioinen	0.003	0.804	0.006	0.003	0.056	0.214	0.078	0.052	0.026	0.020	0.004
	Kremsmunster	0.019	0.809	0.002	0.009	0.042	0.122	0.053	0.036	0.008	0.013	0.004
	Okehampton	0.040	0.693	0.004	0.018	0.055	0.115	0.041	0.028	0.011	0.017	0.003
	Piacenza	0.026	0.662	0.004	0.013	0.038	0.089	0.042	0.028	0.007	0.012	0.003
	Porto	0.015	0.482	0.006	0.010	0.037	0.077	0.030	0.020	0.008	0.011	0.002
	Seville	0.000	0.504	0.000	0.000	0.012	0.053	0.035	0.024	0.003	0.004	0.002
	Thiva	0.001	0.768	0.000	0.001	0.015	0.064	0.049	0.032	0.003	0.005	0.004

Table 9.2.4- 129: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:3 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.830	0.000	0.021	0.092	0.057	0.038	0.003	0.007	0.004
	Hamburg	0.003	0.970	0.002	0.062	0.183	0.071	0.047	0.016	0.020	0.005
	Jokioinen	0.000	0.777	0.004	0.051	0.219	0.080	0.054	0.027	0.019	0.004
	Kremsmunster	0.002	0.786	0.000	0.038	0.122	0.055	0.036	0.007	0.012	0.004
	Okehampton	0.006	0.685	0.001	0.049	0.117	0.043	0.028	0.010	0.016	0.003
	Piacenza	0.003	0.646	0.001	0.035	0.089	0.043	0.028	0.007	0.011	0.003
	Porto	0.002	0.464	0.002	0.033	0.071	0.030	0.020	0.007	0.010	0.002
	Seville	0.000	0.495	0.000	0.010	0.050	0.035	0.024	0.002	0.004	0.003
	Thiva	0.000	0.780	0.000	0.013	0.062	0.049	0.033	0.002	0.004	0.004

Table 9.2.4- 130: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 3 x 100 g/ha 1:3 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.005	0.820	0.000	0.024	0.092	0.056	0.037	0.003	0.008	0.004
	Hamburg	0.028	0.968	0.004	0.066	0.183	0.070	0.046	0.017	0.021	0.005
	Jokioinen	0.003	0.786	0.005	0.053	0.214	0.079	0.052	0.026	0.019	0.004
	Kremsmunster	0.019	0.789	0.001	0.040	0.121	0.053	0.036	0.008	0.013	0.004
	Okehampton	0.040	0.680	0.003	0.052	0.115	0.041	0.028	0.011	0.016	0.003
	Piacenza	0.026	0.644	0.003	0.037	0.088	0.041	0.028	0.007	0.011	0.003
	Porto	0.015	0.468	0.004	0.034	0.073	0.029	0.020	0.007	0.011	0.002
	Seville	0.009	0.484	0.000	0.011	0.051	0.034	0.023	0.002	0.004	0.002
	Thiva	0.001	0.754	0.000	0.014	0.061	0.048	0.032	0.002	0.005	0.004

Table 9.2.4- 131: FOCUS MACRO, PECgw results of fluopicolide – 3 x 100 g/ha 1:3 year, late application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0016

Potatoes 2 x 100 g / ha

1:1 year rotation – Early window

Table 9.2.4- 132: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:1 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.008	4.124	0.002	0.011	0.194	0.630	0.406	0.271	0.108	0.065	0.030
	Hamburg	0.060	5.085	0.017	0.059	0.428	1.401	0.552	0.368	0.306	0.138	0.034
	Jokioinen	0.000	4.219	0.013	0.008	0.361	1.429	0.623	0.415	0.356	0.127	0.025
	Kremsmunster	0.036	3.899	0.006	0.031	0.246	0.677	0.313	0.208	0.129	0.078	0.024
	Okehampton	0.073	3.627	0.013	0.064	0.302	0.701	0.282	0.188	0.145	0.093	0.021
	Piacenza	0.047	3.002	0.008	0.041	0.198	0.465	0.270	0.180	0.084	0.060	0.022
	Porto	0.015	2.569	0.010	0.025	0.143	0.353	0.173	0.115	0.065	0.045	0.013
	Seville	0.000	2.658	0.001	0.001	0.058	0.241	0.195	0.130	0.038	0.020	0.015
	Thiva	0.002	3.182	0.001	0.004	0.079	0.377	0.320	0.213	0.048	0.027	0.029

Table 9.2.4- 133: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:1 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.154	4.258	0.010	0.048	0.227	0.652	0.406	0.271	0.115	0.074	0.030
	Hamburg	0.394	5.179	0.032	0.132	0.456	1.408	0.544	0.363	0.312	0.146	0.034
	Jokioinen	0.025	4.286	0.026	0.026	0.387	1.460	0.621	0.414	0.358	0.130	0.025
	Kremsmunster	0.284	3.953	0.016	0.087	0.266	0.687	0.309	0.206	0.134	0.083	0.024
	Okehampton	0.393	3.657	0.025	0.128	0.317	0.708	0.277	0.185	0.150	0.096	0.021
	Piacenza	0.282	3.048	0.016	0.087	0.216	0.479	0.270	0.180	0.088	0.064	0.022
	Porto	0.140	2.633	0.022	0.059	0.159	0.373	0.174	0.116	0.073	0.049	0.013
	Seville	0.004	2.733	0.001	0.003	0.066	0.250	0.194	0.130	0.041	0.022	0.015
	Thiva	0.053	3.332	0.004	0.019	0.097	0.400	0.319	0.212	0.053	0.032	0.029

Table 9.2.4- 134: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:1 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.008	3.962	0.001	0.174	0.059	0.402	0.268	0.100	0.603	0.030
	Hamburg	0.060	4.906	0.009	0.395	0.131	0.549	0.366	0.296	1.371	0.034
	Jokioinen	0.000	4.109	0.008	0.343	0.124	0.623	0.415	0.356	1.431	0.025
	Kremsmunster	0.036	3.773	0.003	0.227	0.073	0.311	0.207	0.123	0.659	0.024
	Okehampton	0.073	3.537	0.007	0.277	0.087	0.279	0.186	0.137	0.678	0.021
	Piacenza	0.047	2.848	0.004	0.178	0.055	0.264	0.176	0.080	0.443	0.022
	Porto	0.015	2.466	0.004	0.128	0.041	0.170	0.113	0.060	0.333	0.013
	Seville	0.000	2.511	0.000	0.052	0.018	0.190	0.127	0.035	0.227	0.015
	Thiva	0.002	2.997	0.000	0.070	0.024	0.313	0.209	0.044	0.357	0.029

Table 9.2.4- 135: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:1 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.154	4.102	0.007	0.206	0.626	0.402	0.268	0.107	0.068	0.030
	Hamburg	0.394	5.042	0.021	0.430	1.384	0.542	0.361	0.303	0.139	0.034
	Jokioinen	0.025	4.189	0.019	0.370	1.452	0.621	0.414	0.359	0.128	0.025
	Kremsmunster	0.284	3.838	0.011	0.249	0.670	0.308	0.205	0.128	0.079	0.024
	Okehampton	0.393	3.567	0.018	0.298	0.689	0.275	0.183	0.143	0.091	0.021
	Piacenza	0.282	2.908	0.011	0.198	0.460	0.264	0.176	0.083	0.059	0.022
	Porto	0.140	2.538	0.015	0.145	0.354	0.172	0.114	0.067	0.045	0.013
	Seville	0.004	2.587	0.001	0.060	0.236	0.190	0.126	0.037	0.021	0.015
	Thiva	0.053	3.138	0.003	0.087	0.379	0.312	0.208	0.049	0.029	0.029

Table 9.2.4- 136: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:1 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.003	5.308	0.001	0.005	0.152	0.520	0.314	0.210	0.019	0.051	0.025
	Hamburg	0.029	5.836	0.027	0.042	0.375	1.004	0.410	0.274	0.082	0.119	0.028
	Jokioinen	0.000	4.527	0.026	0.006	0.347	1.304	0.535	0.356	0.146	0.118	0.022
	Kremsmunster	0.023	4.658	0.006	0.026	0.246	0.680	0.300	0.200	0.040	0.079	0.022
	Okehampton	0.063	3.867	0.017	0.063	0.291	0.658	0.249	0.166	0.052	0.087	0.018
	Piacenza	0.042	3.707	0.013	0.041	0.191	0.436	0.227	0.152	0.030	0.059	0.017
	Porto	0.025	2.800	0.029	0.044	0.189	0.400	0.176	0.118	0.035	0.057	0.013
	Seville	0.000	3.182	0.001	0.001	0.061	0.253	0.191	0.127	0.012	0.021	0.015
	Thiva	0.001	4.667	0.001	0.002	0.073	0.320	0.246	0.164	0.011	0.025	0.022

Table 9.2.4- 137: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:1 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.087	5.311	0.005	0.027	0.170	0.531	0.308	0.206	0.021	0.056	0.025
	Hamburg	0.276	5.750	0.043	0.099	0.394	1.004	0.398	0.265	0.087	0.122	0.027
	Jokioinen	0.021	4.477	0.034	0.021	0.357	1.279	0.522	0.348	0.145	0.117	0.022
	Kremsmunster	0.225	4.593	0.016	0.068	0.265	0.676	0.292	0.194	0.043	0.081	0.022
	Okehampton	0.338	3.772	0.029	0.120	0.296	0.646	0.239	0.160	0.054	0.088	0.018
	Piacenza	0.259	3.674	0.021	0.085	0.203	0.438	0.223	0.148	0.031	0.060	0.017
	Porto	0.200	2.722	0.045	0.091	0.195	0.401	0.172	0.115	0.038	0.057	0.013
	Seville	0.001	3.151	0.002	0.001	0.068	0.256	0.187	0.124	0.013	0.023	0.015
	Thiva	0.029	4.615	0.003	0.012	0.083	0.326	0.239	0.159	0.013	0.028	0.022

Table 9.2.4- 138: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:1 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.003	5.149	0.000	0.136	0.499	0.310	0.207	0.016	0.047	0.025
	Hamburg	0.029	5.685	0.017	0.349	0.975	0.404	0.270	0.076	0.112	0.028
	Jokioinen	0.000	4.497	0.020	0.330	1.298	0.536	0.357	0.143	0.115	0.022
	Kremsmunster	0.023	4.536	0.004	0.227	0.659	0.296	0.198	0.037	0.075	0.022
	Okehampton	0.063	3.771	0.010	0.269	0.638	0.247	0.164	0.048	0.082	0.018
	Piacenza	0.042	3.601	0.009	0.173	0.416	0.224	0.150	0.027	0.054	0.017
	Porto	0.025	2.716	0.016	0.172	0.381	0.173	0.116	0.032	0.053	0.013
	Seville	0.000	3.056	0.001	0.055	0.238	0.187	0.124	0.011	0.019	0.015
	Thiva	0.001	4.513	0.001	0.065	0.302	0.240	0.160	0.010	0.023	0.022

Table 9.2.4- 139: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:1 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.087	5.153	0.004	0.153	0.510	0.304	0.202	0.019	0.051	0.025
	Hamburg	0.276	5.627	0.031	0.369	0.978	0.394	0.262	0.081	0.116	0.027
	Jokioinen	0.021	4.448	0.028	0.340	1.274	0.523	0.349	0.143	0.114	0.022
	Kremsmunster	0.225	4.481	0.012	0.247	0.658	0.289	0.193	0.039	0.077	0.022
	Okehampton	0.338	3.702	0.022	0.278	0.630	0.238	0.159	0.050	0.084	0.018
	Piacenza	0.259	3.577	0.015	0.185	0.420	0.219	0.146	0.028	0.056	0.017
	Porto	0.200	2.656	0.032	0.181	0.383	0.169	0.113	0.034	0.054	0.013
	Seville	0.001	3.027	0.001	0.061	0.241	0.182	0.121	0.012	0.021	0.015
	Thiva	0.029	4.467	0.003	0.075	0.308	0.233	0.155	0.011	0.025	0.022

Table 9.2.4- 140: FOCUS MACRO, PECgw results of fluopicolide – 2 x 100 g/ha 1:1 year, early application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0147

1:1 year rotation – Late window

Table 9.2.4- 141: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:1 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	1.470	0.000	0.002	0.070	0.238	0.153	0.102	0.041	0.024	0.011
	Hamburg	0.013	1.818	0.005	0.018	0.152	0.518	0.206	0.137	0.114	0.050	0.012
	Jokioinen	0.000	1.510	0.003	0.002	0.120	0.533	0.234	0.156	0.128	0.044	0.009
	Kremsmunster	0.007	1.399	0.002	0.009	0.085	0.255	0.118	0.079	0.048	0.027	0.009
	Okehampton	0.018	1.323	0.004	0.020	0.112	0.268	0.108	0.072	0.056	0.034	0.008
	Piacenza	0.012	1.102	0.003	0.014	0.077	0.191	0.107	0.071	0.037	0.024	0.008
	Porto	0.002	0.949	0.003	0.007	0.054	0.140	0.066	0.044	0.026	0.017	0.005
	Seville	0.000	0.984	0.000	0.000	0.022	0.107	0.077	0.052	0.016	0.008	0.006
	Thiva	0.000	1.162	0.000	0.001	0.030	0.156	0.128	0.086	0.021	0.011	0.011

Table 9.2.4- 142: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:1 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.033	1.531	0.002	0.013	0.080	0.245	0.154	0.103	0.043	0.026	0.011
	Hamburg	0.109	1.883	0.010	0.043	0.166	0.520	0.204	0.136	0.115	0.052	0.012
	Jokioinen	0.003	1.544	0.007	0.007	0.130	0.546	0.234	0.156	0.129	0.046	0.009
	Kremsmunster	0.076	1.452	0.005	0.026	0.094	0.259	0.117	0.078	0.050	0.029	0.009
	Okehampton	0.115	1.329	0.008	0.044	0.117	0.271	0.107	0.071	0.058	0.036	0.008
	Piacenza	0.087	1.123	0.006	0.032	0.085	0.195	0.106	0.071	0.037	0.026	0.008
	Porto	0.032	0.979	0.006	0.017	0.062	0.151	0.068	0.045	0.029	0.019	0.005
	Seville	0.000	1.014	0.000	0.000	0.024	0.111	0.078	0.052	0.017	0.009	0.006
	Thiva	0.010	1.231	0.001	0.005	0.036	0.163	0.129	0.086	0.023	0.012	0.011

Table 9.2.4- 143: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:1 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	1.409	0.000	0.063	0.022	0.151	0.100	0.040	0.232	0.011
	Hamburg	0.013	1.764	0.003	0.143	0.048	0.205	0.137	0.114	0.517	0.012
	Jokioinen	0.000	1.465	0.002	0.114	0.042	0.233	0.155	0.129	0.526	0.009
	Kremsmunster	0.007	1.354	0.001	0.079	0.026	0.117	0.078	0.047	0.252	0.009
	Okehampton	0.018	1.293	0.002	0.107	0.033	0.108	0.072	0.055	0.265	0.008
	Piacenza	0.012	1.067	0.001	0.074	0.023	0.107	0.071	0.036	0.190	0.008
	Porto	0.002	0.917	0.001	0.049	0.016	0.065	0.043	0.024	0.133	0.005
	Seville	0.000	0.949	0.000	0.020	0.007	0.076	0.051	0.015	0.102	0.006
	Thiva	0.000	1.113	0.000	0.027	0.010	0.127	0.085	0.020	0.151	0.011

Table 9.2.4- 144: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:1 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.033	1.471	0.002	0.073	0.239	0.152	0.102	0.042	0.025	0.011
	Hamburg	0.109	1.821	0.007	0.157	0.519	0.203	0.135	0.115	0.050	0.012
	Jokioinen	0.003	1.501	0.005	0.123	0.538	0.233	0.155	0.129	0.044	0.009
	Kremsmunster	0.076	1.409	0.003	0.088	0.256	0.116	0.078	0.049	0.028	0.009
	Okehampton	0.115	1.302	0.006	0.113	0.269	0.107	0.071	0.057	0.035	0.008
	Piacenza	0.087	1.087	0.004	0.080	0.193	0.106	0.071	0.037	0.025	0.008
	Porto	0.032	0.948	0.004	0.056	0.144	0.066	0.044	0.027	0.018	0.005
	Seville	0.000	0.978	0.000	0.022	0.105	0.077	0.051	0.016	0.008	0.006
	Thiva	0.010	1.169	0.001	0.033	0.157	0.127	0.085	0.022	0.011	0.011

Table 9.2.4- 145: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:1 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	1.864	0.000	0.001	0.054	0.195	0.116	0.077	0.008	0.019	0.009
	Hamburg	0.006	2.103	0.009	0.013	0.136	0.372	0.155	0.103	0.033	0.043	0.010
	Jokioinen	0.000	1.607	0.007	0.002	0.120	0.481	0.200	0.134	0.054	0.042	0.008
	Kremsmunster	0.004	1.669	0.002	0.007	0.084	0.255	0.112	0.075	0.016	0.028	0.008
	Okehampton	0.016	1.432	0.006	0.021	0.111	0.252	0.095	0.063	0.022	0.033	0.007
	Piacenza	0.010	1.343	0.005	0.014	0.077	0.183	0.091	0.060	0.014	0.023	0.006
	Porto	0.005	1.037	0.009	0.012	0.073	0.158	0.067	0.045	0.015	0.022	0.005
	Seville	0.000	1.188	0.000	0.000	0.021	0.103	0.077	0.051	0.005	0.008	0.006
	Thiva	0.000	1.718	0.000	0.000	0.029	0.140	0.101	0.067	0.006	0.010	0.008

Table 9.2.4- 146: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:1 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.016	1.846	0.001	0.006	0.059	0.194	0.113	0.076	0.008	0.020	0.009
	Hamburg	0.073	2.093	0.015	0.033	0.143	0.374	0.151	0.100	0.034	0.045	0.010
	Jokioinen	0.003	1.588	0.010	0.006	0.123	0.475	0.196	0.130	0.053	0.042	0.008
	Kremsmunster	0.055	1.648	0.005	0.020	0.092	0.253	0.109	0.073	0.016	0.029	0.008
	Okehampton	0.101	1.416	0.010	0.042	0.113	0.248	0.091	0.061	0.022	0.033	0.007
	Piacenza	0.076	1.337	0.008	0.029	0.080	0.182	0.087	0.058	0.015	0.023	0.006
	Porto	0.045	1.013	0.014	0.027	0.075	0.157	0.066	0.044	0.015	0.023	0.005
	Seville	0.000	1.172	0.000	0.000	0.023	0.104	0.075	0.050	0.005	0.008	0.006
	Thiva	0.004	1.681	0.001	0.002	0.031	0.139	0.097	0.065	0.006	0.011	0.008

Table 9.2.4- 147: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:1 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	1.807	0.000	0.049	0.190	0.115	0.076	0.007	0.017	0.009
	Hamburg	0.006	2.053	0.005	0.129	0.364	0.154	0.103	0.033	0.042	0.010
	Jokioinen	0.000	1.578	0.006	0.115	0.479	0.199	0.132	0.054	0.041	0.008
	Kremsmunster	0.004	1.623	0.001	0.077	0.253	0.112	0.075	0.016	0.026	0.008
	Okehampton	0.016	1.405	0.003	0.104	0.249	0.094	0.063	0.021	0.033	0.007
	Piacenza	0.010	1.300	0.003	0.074	0.182	0.091	0.060	0.014	0.023	0.006
	Porto	0.005	1.008	0.004	0.067	0.152	0.066	0.044	0.013	0.021	0.005
	Seville	0.000	1.148	0.000	0.019	0.098	0.075	0.050	0.005	0.007	0.006
	Thiva	0.000	1.655	0.000	0.026	0.134	0.099	0.066	0.005	0.009	0.008

Table 9.2.4- 148: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:1 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.016	1.786	0.001	0.054	0.189	0.112	0.075	0.008	0.018	0.009
	Hamburg	0.073	2.049	0.010	0.136	0.367	0.150	0.100	0.034	0.044	0.010
	Jokioinen	0.003	1.562	0.008	0.118	0.472	0.194	0.130	0.053	0.041	0.008
	Kremsmunster	0.055	1.608	0.003	0.085	0.250	0.109	0.072	0.016	0.027	0.008
	Okehampton	0.101	1.397	0.007	0.110	0.246	0.091	0.061	0.022	0.032	0.007
	Piacenza	0.076	1.298	0.005	0.078	0.180	0.087	0.058	0.015	0.023	0.006
	Porto	0.045	0.991	0.009	0.070	0.151	0.064	0.043	0.014	0.021	0.005
	Seville	0.000	1.129	0.000	0.021	0.098	0.073	0.049	0.005	0.007	0.006
	Thiva	0.004	1.623	0.001	0.028	0.134	0.095	0.064	0.005	0.010	0.008

Table 9.2.4- 149: FOCUS MACRO, PECgw results of fluopicolide – 2 x 100 g/ha 1:1 year, late application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0039

1:2 year rotation – Early window

Table 9.2.4- 150: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:2 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.002	1.981	0.001	0.005	0.090	0.313	0.210	0.140	0.051	0.030	0.014
	Hamburg	0.021	2.470	0.007	0.026	0.205	0.640	0.249	0.166	0.140	0.066	0.016
	Jokioinen	0.001	2.121	0.008	0.003	0.168	0.697	0.299	0.199	0.167	0.058	0.013
	Kremsmunster	0.012	1.872	0.002	0.014	0.113	0.337	0.151	0.100	0.063	0.036	0.012
	Okehampton	0.025	1.771	0.006	0.027	0.147	0.331	0.129	0.086	0.071	0.046	0.010
	Piacenza	0.015	1.480	0.003	0.017	0.096	0.228	0.127	0.084	0.042	0.030	0.011
	Porto	0.004	1.215	0.004	0.010	0.068	0.165	0.079	0.052	0.032	0.021	0.006
	Seville	0.000	1.165	0.000	0.000	0.025	0.116	0.096	0.064	0.018	0.009	0.007
	Thiva	0.000	1.565	0.001	0.002	0.040	0.160	0.167	0.112	0.020	0.013	0.013

Table 9.2.4- 151: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:2 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.053	2.076	0.004	0.021	0.104	0.328	0.212	0.142	0.055	0.034	0.015
	Hamburg	0.153	2.512	0.013	0.059	0.220	0.646	0.245	0.163	0.143	0.070	0.016
	Jokioinen	0.020	2.188	0.014	0.012	0.181	0.715	0.299	0.200	0.173	0.061	0.013
	Kremsmunster	0.112	1.923	0.007	0.037	0.124	0.342	0.151	0.100	0.066	0.039	0.012
	Okehampton	0.154	1.793	0.011	0.056	0.156	0.334	0.127	0.085	0.073	0.048	0.010
	Piacenza	0.109	1.529	0.007	0.038	0.106	0.234	0.126	0.084	0.044	0.032	0.011
	Porto	0.050	1.259	0.009	0.026	0.077	0.178	0.080	0.053	0.035	0.023	0.006
	Seville	0.001	1.210	0.001	0.001	0.029	0.121	0.096	0.064	0.019	0.010	0.007
	Thiva	0.015	1.633	0.002	0.007	0.049	0.172	0.167	0.111	0.022	0.016	0.013

Table 9.2.4- 152: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:2 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.002	1.900	0.000	0.080	0.028	0.207	0.138	0.048	0.300	0.014
	Hamburg	0.021	2.393	0.004	0.190	0.062	0.247	0.164	0.134	0.625	0.016
	Jokioinen	0.001	2.060	0.006	0.160	0.056	0.294	0.196	0.164	0.688	0.013
	Kremsmunster	0.012	1.801	0.001	0.103	0.034	0.148	0.099	0.060	0.327	0.012
	Okehampton	0.025	1.717	0.003	0.136	0.043	0.128	0.085	0.068	0.320	0.010
	Piacenza	0.015	1.405	0.002	0.087	0.028	0.123	0.082	0.039	0.220	0.011
	Porto	0.004	1.164	0.002	0.060	0.019	0.077	0.051	0.030	0.155	0.006
	Seville	0.000	1.101	0.000	0.023	0.008	0.094	0.062	0.016	0.109	0.007
	Thiva	0.000	1.471	0.000	0.035	0.012	0.165	0.110	0.018	0.150	0.013

Table 9.2.4- 153: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:2 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.053	1.998	0.003	0.094	0.316	0.210	0.140	0.051	0.031	0.015
	Hamburg	0.153	2.445	0.009	0.207	0.633	0.244	0.163	0.139	0.067	0.016
	Jokioinen	0.020	2.130	0.010	0.172	0.705	0.294	0.196	0.169	0.059	0.013
	Kremsmunster	0.112	1.857	0.005	0.115	0.334	0.148	0.099	0.064	0.036	0.012
	Okehampton	0.154	1.743	0.008	0.148	0.325	0.126	0.084	0.070	0.046	0.010
	Piacenza	0.109	1.458	0.005	0.097	0.226	0.123	0.082	0.041	0.030	0.011
	Porto	0.050	1.207	0.006	0.069	0.167	0.078	0.052	0.032	0.021	0.006
	Seville	0.001	1.145	0.000	0.026	0.113	0.094	0.062	0.017	0.009	0.007
	Thiva	0.015	1.532	0.001	0.043	0.160	0.165	0.110	0.020	0.014	0.013

Table 9.2.4- 154: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:2 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	2.441	0.001	0.002	0.069	0.242	0.162	0.108	0.008	0.023	0.012
	Hamburg	0.012	2.790	0.011	0.020	0.180	0.502	0.203	0.136	0.040	0.058	0.013
	Jokioinen	0.001	2.321	0.015	0.003	0.163	0.600	0.263	0.176	0.069	0.054	0.011
	Kremsmunster	0.007	2.241	0.003	0.010	0.113	0.333	0.149	0.099	0.019	0.036	0.011
	Okehampton	0.022	1.913	0.007	0.025	0.140	0.310	0.112	0.075	0.026	0.043	0.009
	Piacenza	0.013	1.869	0.006	0.017	0.095	0.207	0.106	0.071	0.014	0.029	0.009
	Porto	0.008	1.336	0.012	0.019	0.089	0.192	0.082	0.054	0.018	0.027	0.006
	Seville	0.000	1.492	0.001	0.000	0.025	0.120	0.093	0.062	0.006	0.009	0.007
	Thiva	0.000	2.094	0.001	0.001	0.032	0.129	0.127	0.084	0.005	0.010	0.010

Table 9.2.4- 155: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:2 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.027	2.425	0.002	0.012	0.079	0.246	0.159	0.106	0.010	0.026	0.012
	Hamburg	0.106	2.749	0.017	0.046	0.190	0.501	0.198	0.132	0.042	0.060	0.013
	Jokioinen	0.013	2.301	0.020	0.009	0.169	0.592	0.259	0.173	0.069	0.056	0.011
	Kremsmunster	0.082	2.215	0.007	0.031	0.121	0.332	0.145	0.097	0.021	0.038	0.011
	Okehampton	0.133	1.868	0.013	0.050	0.147	0.305	0.107	0.072	0.027	0.044	0.009
	Piacenza	0.096	1.857	0.009	0.038	0.101	0.211	0.103	0.069	0.016	0.030	0.009
	Porto	0.065	1.330	0.018	0.038	0.093	0.199	0.080	0.053	0.019	0.028	0.006
	Seville	0.000	1.478	0.001	0.001	0.027	0.122	0.091	0.061	0.006	0.010	0.007
	Thiva	0.007	2.069	0.002	0.005	0.037	0.132	0.124	0.082	0.005	0.012	0.010

Table 9.2.4- 156: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:2 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	2.364	0.000	0.061	0.235	0.161	0.107	0.007	0.021	0.012
	Hamburg	0.012	2.727	0.006	0.167	0.484	0.200	0.134	0.037	0.054	0.013
	Jokioinen	0.001	2.279	0.011	0.156	0.593	0.260	0.174	0.067	0.053	0.011
	Kremsmunster	0.007	2.189	0.001	0.104	0.322	0.147	0.098	0.018	0.034	0.011
	Okehampton	0.022	1.856	0.004	0.130	0.301	0.112	0.075	0.023	0.041	0.009
	Piacenza	0.013	1.805	0.004	0.086	0.198	0.103	0.069	0.013	0.027	0.009
	Porto	0.008	1.293	0.006	0.081	0.182	0.080	0.053	0.016	0.025	0.006
	Seville	0.000	1.433	0.000	0.023	0.115	0.092	0.061	0.005	0.008	0.007
	Thiva	0.000	2.023	0.000	0.028	0.121	0.125	0.084	0.004	0.009	0.010

Table 9.2.4- 157: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:2 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.027	2.352	0.002	0.071	0.240	0.158	0.105	0.009	0.024	0.012
	Hamburg	0.106	2.694	0.012	0.178	0.485	0.195	0.130	0.039	0.057	0.013
	Jokioinen	0.013	2.263	0.016	0.162	0.591	0.256	0.171	0.067	0.054	0.011
	Kremsmunster	0.082	2.171	0.005	0.113	0.323	0.144	0.096	0.019	0.036	0.011
	Okehampton	0.133	1.824	0.009	0.137	0.297	0.108	0.072	0.025	0.042	0.009
	Piacenza	0.096	1.796	0.007	0.094	0.201	0.100	0.067	0.014	0.028	0.009
	Porto	0.065	1.283	0.013	0.085	0.189	0.078	0.052	0.017	0.026	0.006
	Seville	0.000	1.415	0.001	0.025	0.116	0.089	0.059	0.006	0.009	0.007
	Thiva	0.007	1.999	0.001	0.032	0.124	0.121	0.081	0.005	0.010	0.010

Table 9.2.4- 158: FOCUS MACRO, PECgw results of fluopicolide – 2 x 100 g/ha 1:2 year, early application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0042

1:2 year rotation – Late window

Table 9.2.4- 159: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:2 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.693	0.000	0.001	0.032	0.116	0.077	0.051	0.020	0.011	0.005
	Hamburg	0.005	0.858	0.002	0.008	0.072	0.243	0.094	0.063	0.052	0.024	0.006
	Jokioinen	0.000	0.744	0.002	0.001	0.057	0.264	0.119	0.079	0.062	0.021	0.005
	Kremsmunster	0.002	0.662	0.001	0.004	0.041	0.129	0.058	0.039	0.024	0.013	0.004
	Okehampton	0.006	0.643	0.002	0.008	0.053	0.129	0.048	0.032	0.028	0.017	0.004
	Piacenza	0.004	0.534	0.001	0.005	0.038	0.094	0.055	0.037	0.018	0.012	0.004
	Porto	0.001	0.450	0.001	0.003	0.027	0.065	0.031	0.021	0.013	0.008	0.002
	Seville	0.000	0.432	0.000	0.000	0.009	0.049	0.037	0.025	0.007	0.003	0.003
	Thiva	0.000	0.594	0.000	0.000	0.018	0.067	0.064	0.042	0.009	0.006	0.005

Table 9.2.4- 160: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:2 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.011	0.722	0.001	0.005	0.037	0.121	0.078	0.052	0.021	0.012	0.005
	Hamburg	0.042	0.880	0.004	0.019	0.078	0.246	0.093	0.062	0.054	0.025	0.006
	Jokioinen	0.004	0.768	0.004	0.003	0.062	0.270	0.118	0.079	0.063	0.022	0.005
	Kremsmunster	0.027	0.690	0.002	0.011	0.045	0.132	0.058	0.039	0.025	0.014	0.004
	Okehampton	0.045	0.652	0.004	0.019	0.057	0.130	0.048	0.032	0.029	0.018	0.004
	Piacenza	0.034	0.553	0.002	0.013	0.040	0.095	0.055	0.037	0.018	0.012	0.004
	Porto	0.011	0.470	0.003	0.008	0.030	0.070	0.032	0.021	0.014	0.009	0.002
	Seville	0.000	0.445	0.000	0.000	0.011	0.051	0.038	0.025	0.008	0.004	0.003
	Thiva	0.002	0.626	0.000	0.002	0.021	0.071	0.064	0.043	0.010	0.007	0.005

Table 9.2.4- 161: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:2 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.663	0.000	0.029	0.010	0.077	0.051	0.019	0.113	0.005
	Hamburg	0.005	0.833	0.001	0.068	0.023	0.094	0.063	0.052	0.241	0.006
	Jokioinen	0.000	0.717	0.002	0.054	0.020	0.119	0.079	0.062	0.263	0.005
	Kremsmunster	0.002	0.641	0.000	0.037	0.012	0.058	0.039	0.024	0.126	0.004
	Okehampton	0.006	0.627	0.001	0.050	0.016	0.049	0.032	0.028	0.128	0.004
	Piacenza	0.004	0.512	0.001	0.035	0.011	0.054	0.036	0.018	0.093	0.004
	Porto	0.001	0.434	0.000	0.024	0.008	0.030	0.020	0.012	0.061	0.002
	Seville	0.000	0.414	0.000	0.008	0.003	0.037	0.025	0.007	0.046	0.003
	Thiva	0.000	0.576	0.000	0.016	0.005	0.063	0.042	0.009	0.064	0.005

Table 9.2.4- 162: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:2 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.011	0.691	0.001	0.033	0.118	0.077	0.052	0.020	0.011	0.005
	Hamburg	0.042	0.856	0.003	0.074	0.244	0.093	0.062	0.053	0.024	0.006
	Jokioinen	0.004	0.741	0.003	0.059	0.268	0.119	0.079	0.063	0.021	0.005
	Kremsmunster	0.027	0.669	0.001	0.042	0.129	0.058	0.039	0.025	0.013	0.004
	Okehampton	0.045	0.640	0.002	0.054	0.129	0.048	0.032	0.029	0.017	0.004
	Piacenza	0.034	0.532	0.002	0.039	0.094	0.054	0.036	0.018	0.012	0.004
	Porto	0.011	0.452	0.002	0.027	0.066	0.031	0.021	0.013	0.009	0.002
	Seville	0.000	0.428	0.000	0.009	0.048	0.037	0.025	0.007	0.003	0.003
	Thiva	0.002	0.601	0.000	0.019	0.067	0.064	0.042	0.009	0.006	0.005

Table 9.2.4- 163: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:2 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.875	0.000	0.001	0.023	0.093	0.058	0.038	0.003	0.008	0.004
	Hamburg	0.003	0.990	0.003	0.006	0.064	0.193	0.077	0.052	0.016	0.021	0.005
	Jokioinen	0.000	0.804	0.005	0.001	0.055	0.230	0.101	0.068	0.026	0.020	0.004
	Kremsmunster	0.001	0.792	0.001	0.003	0.041	0.126	0.058	0.039	0.007	0.013	0.004
	Okehampton	0.005	0.702	0.002	0.008	0.052	0.121	0.043	0.029	0.011	0.016	0.003
	Piacenza	0.003	0.663	0.002	0.005	0.036	0.088	0.046	0.031	0.007	0.011	0.003
	Porto	0.002	0.486	0.003	0.006	0.034	0.077	0.032	0.021	0.007	0.010	0.002
	Seville	0.000	0.553	0.000	0.000	0.009	0.050	0.036	0.024	0.003	0.003	0.003
	Thiva	0.000	0.798	0.000	0.000	0.014	0.057	0.051	0.034	0.002	0.005	0.004

Table 9.2.4- 164: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:2 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.005	0.867	0.001	0.003	0.026	0.094	0.056	0.038	0.004	0.009	0.004
	Hamburg	0.027	0.980	0.006	0.015	0.068	0.193	0.076	0.050	0.017	0.022	0.005
	Jokioinen	0.003	0.810	0.006	0.003	0.058	0.229	0.098	0.066	0.025	0.020	0.004
	Kremsmunster	0.019	0.787	0.002	0.008	0.044	0.125	0.056	0.038	0.008	0.014	0.004
	Okehampton	0.039	0.685	0.004	0.017	0.054	0.119	0.042	0.028	0.011	0.017	0.003
	Piacenza	0.029	0.662	0.003	0.012	0.038	0.088	0.045	0.030	0.007	0.011	0.003
	Porto	0.014	0.484	0.006	0.011	0.036	0.077	0.031	0.021	0.008	0.011	0.002
	Seville	0.000	0.542	0.000	0.000	0.010	0.050	0.035	0.024	0.003	0.004	0.003
	Thiva	0.001	0.778	0.000	0.001	0.016	0.058	0.049	0.033	0.002	0.005	0.004

Table 9.2.4- 165: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:2 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.846	0.000	0.021	0.090	0.058	0.039	0.003	0.007	0.004
	Hamburg	0.003	0.964	0.002	0.061	0.192	0.077	0.051	0.016	0.020	0.005
	Jokioinen	0.000	0.784	0.004	0.052	0.228	0.101	0.068	0.026	0.019	0.004
	Kremsmunster	0.001	0.769	0.000	0.037	0.125	0.057	0.038	0.007	0.012	0.004
	Okehampton	0.005	0.691	0.001	0.050	0.120	0.043	0.029	0.010	0.016	0.003
	Piacenza	0.003	0.644	0.001	0.035	0.088	0.046	0.030	0.007	0.011	0.003
	Porto	0.002	0.475	0.002	0.032	0.073	0.031	0.021	0.007	0.010	0.002
	Seville	0.000	0.530	0.000	0.009	0.048	0.035	0.024	0.002	0.003	0.003
	Thiva	0.000	0.765	0.000	0.012	0.054	0.049	0.033	0.002	0.004	0.004

Table 9.2.4- 166: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:2 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.005	0.839	0.000	0.024	0.091	0.056	0.038	0.003	0.008	0.004
	Hamburg	0.027	0.960	0.004	0.065	0.191	0.076	0.050	0.017	0.021	0.005
	Jokioinen	0.003	0.791	0.005	0.055	0.227	0.099	0.066	0.026	0.019	0.004
	Kremsmunster	0.019	0.766	0.001	0.040	0.124	0.056	0.037	0.007	0.013	0.004
	Okehampton	0.039	0.681	0.003	0.052	0.119	0.042	0.028	0.011	0.016	0.003
	Piacenza	0.029	0.647	0.002	0.037	0.087	0.044	0.030	0.007	0.011	0.003
	Porto	0.014	0.473	0.004	0.033	0.074	0.031	0.020	0.007	0.010	0.002
	Seville	0.000	0.518	0.000	0.009	0.048	0.035	0.023	0.002	0.003	0.003
	Thiva	0.001	0.747	0.000	0.014	0.056	0.048	0.032	0.002	0.005	0.004

Table 9.2.4- 167: FOCUS MACRO, PECgw results of fluopicolide – 2 x 100 g/ha 1:2 year, late application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0012

1:3 year rotation – Early window

Table 9.2.4- 168: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:3 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	1.295	0.001	0.003	0.058	0.203	0.132	0.088	0.035	0.020	0.009
	Hamburg	0.011	1.566	0.004	0.015	0.131	0.385	0.145	0.097	0.086	0.043	0.010
	Jokioinen	0.000	1.409	0.005	0.002	0.106	0.435	0.173	0.115	0.108	0.037	0.008
	Kremsmunster	0.006	1.238	0.001	0.008	0.073	0.230	0.104	0.070	0.043	0.024	0.008
	Okehampton	0.014	1.147	0.003	0.016	0.094	0.216	0.083	0.056	0.047	0.030	0.007
	Piacenza	0.009	0.967	0.002	0.011	0.065	0.148	0.086	0.057	0.028	0.020	0.007
	Porto	0.002	0.781	0.002	0.006	0.045	0.106	0.050	0.033	0.021	0.014	0.004
	Seville	0.000	0.694	0.000	0.000	0.016	0.079	0.064	0.043	0.012	0.006	0.004
	Thiva	0.000	1.062	0.000	0.001	0.027	0.116	0.113	0.075	0.015	0.009	0.009

Table 9.2.4- 169: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:3 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.030	1.349	0.002	0.012	0.068	0.212	0.133	0.088	0.037	0.022	0.010
	Hamburg	0.086	1.605	0.008	0.035	0.144	0.388	0.143	0.096	0.088	0.046	0.010
	Jokioinen	0.010	1.442	0.008	0.008	0.115	0.436	0.172	0.115	0.109	0.039	0.009
	Kremsmunster	0.061	1.289	0.004	0.023	0.080	0.234	0.104	0.069	0.045	0.026	0.008
	Okehampton	0.091	1.160	0.007	0.034	0.102	0.218	0.082	0.055	0.048	0.031	0.007
	Piacenza	0.064	0.986	0.005	0.025	0.072	0.155	0.086	0.057	0.030	0.022	0.007
	Porto	0.026	0.809	0.005	0.015	0.051	0.113	0.050	0.034	0.023	0.016	0.004
	Seville	0.000	0.716	0.000	0.001	0.018	0.083	0.064	0.043	0.013	0.006	0.004
	Thiva	0.008	1.116	0.001	0.004	0.032	0.122	0.112	0.075	0.016	0.010	0.010

Table 9.2.4- 170: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:3 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	1.241	0.000	0.052	0.018	0.131	0.087	0.033	0.197	0.009
	Hamburg	0.011	1.502	0.002	0.121	0.041	0.144	0.096	0.082	0.375	0.010
	Jokioinen	0.000	1.378	0.004	0.100	0.036	0.173	0.115	0.107	0.435	0.008
	Kremsmunster	0.006	1.182	0.001	0.067	0.022	0.104	0.069	0.041	0.226	0.008
	Okehampton	0.014	1.103	0.002	0.087	0.028	0.083	0.055	0.045	0.210	0.007
	Piacenza	0.009	0.918	0.001	0.059	0.019	0.084	0.056	0.027	0.142	0.007
	Porto	0.002	0.747	0.001	0.040	0.013	0.048	0.032	0.019	0.101	0.004
	Seville	0.000	0.655	0.000	0.014	0.005	0.062	0.041	0.011	0.075	0.004
	Thiva	0.000	0.989	0.000	0.024	0.008	0.110	0.074	0.014	0.110	0.009

Table 9.2.4- 171: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:3 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.030	1.298	0.002	0.061	0.206	0.131	0.088	0.035	0.020	0.010
	Hamburg	0.086	1.555	0.005	0.134	0.380	0.143	0.095	0.085	0.044	0.010
	Jokioinen	0.010	1.413	0.006	0.108	0.437	0.172	0.115	0.108	0.038	0.009
	Kremsmunster	0.061	1.233	0.003	0.074	0.231	0.103	0.069	0.043	0.024	0.008
	Okehampton	0.091	1.123	0.005	0.095	0.212	0.082	0.055	0.046	0.030	0.007
	Piacenza	0.064	0.946	0.003	0.066	0.146	0.084	0.056	0.028	0.020	0.007
	Porto	0.026	0.780	0.003	0.046	0.107	0.049	0.033	0.021	0.014	0.004
	Seville	0.000	0.677	0.000	0.016	0.078	0.062	0.041	0.012	0.006	0.004
	Thiva	0.008	1.050	0.001	0.029	0.115	0.110	0.073	0.015	0.009	0.010

Table 9.2.4- 172: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:3 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	1.613	0.000	0.001	0.042	0.164	0.104	0.069	0.005	0.014	0.008
	Hamburg	0.006	1.807	0.007	0.011	0.117	0.319	0.124	0.083	0.027	0.038	0.009
	Jokioinen	0.000	1.497	0.009	0.002	0.104	0.402	0.144	0.096	0.047	0.036	0.007
	Kremsmunster	0.004	1.494	0.002	0.007	0.074	0.219	0.098	0.066	0.012	0.024	0.007
	Okehampton	0.012	1.235	0.004	0.015	0.092	0.201	0.074	0.050	0.017	0.029	0.006
	Piacenza	0.007	1.193	0.004	0.011	0.064	0.143	0.071	0.048	0.010	0.019	0.006
	Porto	0.004	0.872	0.007	0.010	0.061	0.126	0.052	0.035	0.012	0.018	0.004
	Seville	0.000	0.910	0.000	0.000	0.020	0.085	0.061	0.040	0.004	0.007	0.004
	Thiva	0.000	1.519	0.000	0.001	0.023	0.098	0.083	0.055	0.003	0.008	0.007

Table 9.2.4- 173: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:3 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.015	1.621	0.001	0.007	0.049	0.166	0.102	0.068	0.006	0.016	0.008
	Hamburg	0.057	1.787	0.011	0.027	0.124	0.317	0.121	0.080	0.028	0.040	0.009
	Jokioinen	0.007	1.493	0.012	0.006	0.108	0.394	0.140	0.094	0.046	0.037	0.007
	Kremsmunster	0.047	1.474	0.004	0.019	0.079	0.220	0.096	0.064	0.013	0.025	0.007
	Okehampton	0.080	1.207	0.008	0.031	0.097	0.199	0.071	0.048	0.018	0.030	0.006
	Piacenza	0.056	1.179	0.006	0.024	0.069	0.143	0.070	0.046	0.011	0.020	0.006
	Porto	0.036	0.869	0.011	0.022	0.064	0.129	0.052	0.034	0.013	0.019	0.004
	Seville	0.000	0.891	0.001	0.000	0.021	0.086	0.059	0.039	0.004	0.007	0.004
	Thiva	0.004	1.497	0.001	0.003	0.025	0.100	0.081	0.054	0.004	0.008	0.007

Table 9.2.4- 174: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:3 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	1.567	0.000	0.038	0.158	0.102	0.068	0.005	0.013	0.008
	Hamburg	0.006	1.754	0.004	0.107	0.308	0.122	0.082	0.025	0.036	0.009
	Jokioinen	0.000	1.462	0.008	0.098	0.404	0.147	0.098	0.046	0.035	0.007
	Kremsmunster	0.004	1.437	0.001	0.067	0.210	0.097	0.065	0.011	0.022	0.007
	Okehampton	0.012	1.201	0.002	0.085	0.195	0.073	0.049	0.015	0.027	0.006
	Piacenza	0.007	1.150	0.002	0.058	0.138	0.070	0.047	0.009	0.018	0.006
	Porto	0.004	0.846	0.004	0.055	0.119	0.051	0.034	0.011	0.017	0.004
	Seville	0.000	0.881	0.000	0.018	0.081	0.059	0.039	0.004	0.006	0.004
	Thiva	0.000	1.467	0.000	0.020	0.092	0.082	0.054	0.003	0.007	0.007

Table 9.2.4- 175: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:3 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.015	1.574	0.001	0.044	0.160	0.100	0.067	0.005	0.015	0.008
	Hamburg	0.057	1.741	0.008	0.115	0.307	0.119	0.080	0.026	0.038	0.009
	Jokioinen	0.007	1.466	0.010	0.103	0.396	0.143	0.095	0.045	0.035	0.007
	Kremsmunster	0.047	1.443	0.003	0.073	0.212	0.095	0.064	0.012	0.023	0.007
	Okehampton	0.080	1.181	0.006	0.090	0.194	0.071	0.047	0.016	0.028	0.006
	Piacenza	0.056	1.138	0.004	0.063	0.138	0.068	0.046	0.010	0.019	0.006
	Porto	0.036	0.844	0.008	0.059	0.122	0.050	0.034	0.012	0.018	0.004
	Seville	0.000	0.862	0.000	0.019	0.081	0.057	0.038	0.004	0.007	0.004
	Thiva	0.004	1.451	0.001	0.023	0.095	0.080	0.053	0.003	0.008	0.007

Table 9.2.4- 176: FOCUS MACRO, PECgw results of fluopicolide – 2 x 100 g/ha 1:3 year, early application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0029

1:3 year rotation – Late window

Table 9.2.4- 177: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:3 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.449	0.000	0.001	0.020	0.077	0.049	0.033	0.013	0.007	0.003
	Hamburg	0.003	0.575	0.001	0.005	0.047	0.146	0.054	0.036	0.033	0.016	0.004
	Jokioinen	0.000	0.486	0.001	0.001	0.036	0.166	0.065	0.043	0.040	0.013	0.003
	Kremsmunster	0.001	0.454	0.000	0.002	0.026	0.084	0.038	0.025	0.016	0.008	0.003
	Okehampton	0.003	0.425	0.001	0.005	0.035	0.084	0.032	0.022	0.018	0.011	0.002
	Piacenza	0.002	0.354	0.001	0.004	0.024	0.061	0.035	0.023	0.012	0.008	0.003
	Porto	0.000	0.290	0.001	0.001	0.017	0.042	0.019	0.013	0.008	0.006	0.001
	Seville	0.000	0.258	0.000	0.000	0.006	0.033	0.025	0.017	0.005	0.002	0.002
	Thiva	0.000	0.377	0.000	0.000	0.012	0.052	0.045	0.030	0.007	0.004	0.003

Table 9.2.4- 178: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:3 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.005	0.471	0.001	0.003	0.024	0.079	0.049	0.033	0.014	0.008	0.003
	Hamburg	0.024	0.590	0.002	0.012	0.052	0.147	0.054	0.036	0.034	0.016	0.004
	Jokioinen	0.002	0.501	0.002	0.002	0.039	0.168	0.065	0.043	0.041	0.014	0.003
	Kremsmunster	0.015	0.469	0.001	0.007	0.028	0.085	0.038	0.025	0.017	0.009	0.003
	Okehampton	0.026	0.432	0.002	0.012	0.038	0.085	0.032	0.021	0.019	0.012	0.003
	Piacenza	0.018	0.373	0.002	0.008	0.026	0.062	0.035	0.023	0.012	0.008	0.003
	Porto	0.006	0.303	0.001	0.004	0.020	0.045	0.020	0.013	0.009	0.006	0.002
	Seville	0.000	0.266	0.000	0.000	0.006	0.034	0.026	0.017	0.005	0.002	0.002
	Thiva	0.001	0.398	0.000	0.001	0.014	0.053	0.046	0.031	0.008	0.004	0.003

Table 9.2.4- 179: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:3 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.431	0.000	0.018	0.006	0.048	0.032	0.012	0.075	0.003
	Hamburg	0.003	0.551	0.001	0.044	0.015	0.054	0.036	0.033	0.144	0.004
	Jokioinen	0.000	0.471	0.001	0.034	0.013	0.065	0.043	0.040	0.163	0.003
	Kremsmunster	0.001	0.434	0.000	0.024	0.008	0.038	0.025	0.016	0.083	0.003
	Okehampton	0.003	0.412	0.000	0.033	0.011	0.032	0.021	0.018	0.084	0.002
	Piacenza	0.002	0.341	0.000	0.023	0.007	0.035	0.023	0.012	0.061	0.003
	Porto	0.000	0.278	0.000	0.015	0.005	0.019	0.013	0.008	0.039	0.001
	Seville	0.000	0.243	0.000	0.005	0.002	0.025	0.017	0.005	0.031	0.002
	Thiva	0.000	0.362	0.000	0.010	0.004	0.044	0.029	0.007	0.050	0.003

Table 9.2.4- 180: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:3 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.005	0.452	0.000	0.022	0.078	0.049	0.033	0.013	0.007	0.003
	Hamburg	0.024	0.574	0.002	0.049	0.146	0.054	0.036	0.034	0.016	0.004
	Jokioinen	0.002	0.486	0.002	0.037	0.165	0.065	0.043	0.040	0.013	0.003
	Kremsmunster	0.015	0.454	0.001	0.026	0.085	0.038	0.025	0.017	0.009	0.003
	Okehampton	0.026	0.421	0.001	0.036	0.085	0.032	0.021	0.019	0.011	0.003
	Piacenza	0.018	0.358	0.001	0.025	0.062	0.035	0.023	0.012	0.008	0.003
	Porto	0.006	0.292	0.001	0.018	0.042	0.019	0.013	0.009	0.006	0.002
	Seville	0.000	0.251	0.000	0.006	0.032	0.025	0.017	0.005	0.002	0.002
	Thiva	0.001	0.381	0.000	0.012	0.053	0.045	0.030	0.007	0.004	0.003

Table 9.2.4- 181: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:3 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.557	0.000	0.000	0.015	0.063	0.038	0.026	0.002	0.005	0.003
	Hamburg	0.002	0.653	0.002	0.004	0.042	0.124	0.047	0.032	0.011	0.013	0.003
	Jokioinen	0.000	0.515	0.003	0.001	0.034	0.146	0.053	0.036	0.017	0.012	0.003
	Kremsmunster	0.001	0.530	0.001	0.002	0.026	0.082	0.037	0.024	0.005	0.008	0.003
	Okehampton	0.003	0.463	0.001	0.005	0.034	0.078	0.029	0.019	0.007	0.011	0.002
	Piacenza	0.002	0.437	0.001	0.004	0.024	0.060	0.029	0.019	0.005	0.007	0.002
	Porto	0.001	0.314	0.002	0.003	0.023	0.050	0.020	0.014	0.005	0.007	0.002
	Seville	0.000	0.337	0.000	0.000	0.007	0.035	0.025	0.016	0.002	0.003	0.002
	Thiva	0.000	0.515	0.000	0.000	0.009	0.043	0.034	0.023	0.002	0.003	0.003

Table 9.2.4- 182: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:3 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.003	0.553	0.000	0.002	0.017	0.063	0.038	0.025	0.002	0.006	0.003
	Hamburg	0.015	0.650	0.003	0.009	0.044	0.123	0.047	0.031	0.011	0.014	0.003
	Jokioinen	0.002	0.517	0.004	0.002	0.036	0.143	0.052	0.035	0.017	0.013	0.003
	Kremsmunster	0.010	0.527	0.001	0.005	0.027	0.081	0.036	0.024	0.005	0.009	0.003
	Okehampton	0.023	0.458	0.003	0.011	0.036	0.077	0.028	0.018	0.007	0.011	0.002
	Piacenza	0.015	0.435	0.002	0.008	0.025	0.059	0.028	0.019	0.005	0.008	0.002
	Porto	0.008	0.316	0.003	0.006	0.024	0.051	0.020	0.013	0.005	0.007	0.002
	Seville	0.000	0.330	0.000	0.000	0.008	0.035	0.023	0.016	0.002	0.003	0.002
	Thiva	0.001	0.498	0.000	0.000	0.010	0.043	0.032	0.022	0.002	0.003	0.003

Table 9.2.4- 183: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:3 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.539	0.000	0.014	0.061	0.037	0.025	0.002	0.005	0.003
	Hamburg	0.002	0.635	0.001	0.040	0.122	0.046	0.031	0.011	0.013	0.003
	Jokioinen	0.000	0.504	0.003	0.032	0.146	0.052	0.035	0.017	0.012	0.003
	Kremsmunster	0.001	0.516	0.000	0.024	0.081	0.035	0.024	0.005	0.008	0.003
	Okehampton	0.003	0.451	0.001	0.032	0.078	0.028	0.018	0.007	0.010	0.002
	Piacenza	0.002	0.424	0.001	0.023	0.059	0.028	0.018	0.005	0.007	0.002
	Porto	0.001	0.303	0.001	0.021	0.048	0.020	0.013	0.005	0.007	0.002
	Seville	0.000	0.326	0.000	0.007	0.034	0.023	0.015	0.002	0.003	0.002
	Thiva	0.000	0.508	0.000	0.008	0.041	0.032	0.021	0.002	0.003	0.003

Table 9.2.4- 184: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha 1:3 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.003	0.536	0.000	0.016	0.061	0.037	0.025	0.002	0.005	0.003
	Hamburg	0.015	0.634	0.002	0.043	0.122	0.046	0.031	0.011	0.014	0.003
	Jokioinen	0.002	0.504	0.003	0.034	0.143	0.052	0.035	0.017	0.012	0.003
	Kremsmunster	0.010	0.515	0.001	0.026	0.080	0.035	0.024	0.005	0.008	0.003
	Okehampton	0.023	0.449	0.002	0.034	0.077	0.028	0.018	0.007	0.011	0.002
	Piacenza	0.015	0.423	0.002	0.024	0.058	0.028	0.018	0.005	0.007	0.002
	Porto	0.008	0.306	0.002	0.023	0.049	0.020	0.013	0.005	0.007	0.002
	Seville	0.000	0.319	0.000	0.007	0.034	0.023	0.015	0.002	0.003	0.002
	Thiva	0.001	0.489	0.000	0.009	0.041	0.032	0.021	0.002	0.003	0.003

Table 9.2.4- 185: FOCUS MACRO, PECgw results of fluopicolide – 2 x 100 g/ha 1:3 year, late application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0008

Potatoes 1x100 g / ha

1:1 year rotation – Early window

Table 9.2.4- 186: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:1 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.002	1.986	0.001	0.004	0.091	0.313	0.203	0.135	0.053	0.031	0.014
	Hamburg	0.018	2.438	0.007	0.023	0.201	0.696	0.276	0.184	0.152	0.066	0.016
	Jokioinen	0.000	2.045	0.004	0.003	0.168	0.712	0.312	0.208	0.177	0.061	0.012
	Kremsmunster	0.011	1.890	0.002	0.012	0.116	0.336	0.156	0.104	0.064	0.037	0.012
	Okehampton	0.025	1.774	0.005	0.027	0.145	0.348	0.141	0.094	0.071	0.045	0.010
	Piacenza	0.015	1.466	0.003	0.017	0.094	0.230	0.135	0.090	0.042	0.029	0.010
	Porto	0.004	1.245	0.004	0.010	0.068	0.174	0.086	0.058	0.032	0.022	0.006
	Seville	0.000	1.272	0.000	0.000	0.027	0.120	0.097	0.065	0.019	0.010	0.007
	Thiva	0.000	1.514	0.000	0.001	0.036	0.186	0.160	0.106	0.023	0.013	0.014

Table 9.2.4- 187: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:1 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.052	2.063	0.004	0.019	0.106	0.323	0.203	0.135	0.057	0.035	0.015
	Hamburg	0.145	2.509	0.013	0.056	0.218	0.702	0.273	0.182	0.155	0.070	0.016
	Jokioinen	0.005	2.084	0.010	0.010	0.181	0.724	0.310	0.207	0.178	0.063	0.012
	Kremsmunster	0.106	1.925	0.006	0.036	0.128	0.342	0.155	0.103	0.066	0.040	0.012
	Okehampton	0.152	1.781	0.011	0.056	0.154	0.353	0.139	0.093	0.074	0.047	0.010
	Piacenza	0.106	1.486	0.007	0.037	0.104	0.238	0.135	0.090	0.044	0.031	0.011
	Porto	0.050	1.279	0.009	0.025	0.076	0.185	0.087	0.058	0.035	0.024	0.007
	Seville	0.001	1.309	0.000	0.001	0.031	0.124	0.097	0.065	0.020	0.011	0.007
	Thiva	0.016	1.587	0.001	0.007	0.044	0.197	0.159	0.106	0.026	0.015	0.014

Table 9.2.4- 188: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:1 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.002	1.905	0.000	0.081	0.028	0.201	0.134	0.049	0.299	0.014
	Hamburg	0.018	2.356	0.003	0.185	0.063	0.274	0.183	0.146	0.681	0.016
	Jokioinen	0.000	1.987	0.003	0.160	0.059	0.311	0.208	0.177	0.714	0.012
	Kremsmunster	0.011	1.826	0.001	0.107	0.035	0.155	0.104	0.061	0.327	0.012
	Okehampton	0.025	1.716	0.003	0.133	0.042	0.139	0.093	0.068	0.336	0.010
	Piacenza	0.015	1.391	0.002	0.085	0.027	0.132	0.088	0.039	0.219	0.010
	Porto	0.004	1.193	0.002	0.060	0.020	0.085	0.057	0.029	0.164	0.006
	Seville	0.000	1.202	0.000	0.024	0.009	0.095	0.063	0.017	0.113	0.007
	Thiva	0.000	1.425	0.000	0.032	0.011	0.156	0.104	0.021	0.176	0.014

Table 9.2.4- 189: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:1 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.052	1.985	0.003	0.096	0.310	0.201	0.134	0.053	0.032	0.015
	Hamburg	0.145	2.427	0.009	0.205	0.689	0.271	0.181	0.150	0.067	0.016
	Jokioinen	0.005	2.031	0.007	0.172	0.722	0.310	0.207	0.179	0.061	0.012
	Kremsmunster	0.106	1.865	0.005	0.119	0.333	0.154	0.103	0.063	0.038	0.012
	Okehampton	0.152	1.740	0.008	0.144	0.343	0.138	0.092	0.071	0.044	0.010
	Piacenza	0.106	1.418	0.004	0.095	0.228	0.132	0.088	0.041	0.029	0.011
	Porto	0.050	1.231	0.006	0.069	0.175	0.086	0.057	0.033	0.022	0.007
	Seville	0.001	1.238	0.000	0.028	0.117	0.095	0.063	0.018	0.010	0.007
	Thiva	0.016	1.493	0.001	0.039	0.187	0.156	0.104	0.024	0.013	0.014

Table 9.2.4- 190: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:1 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	2.550	0.001	0.002	0.071	0.259	0.158	0.105	0.009	0.024	0.012
	Hamburg	0.008	2.829	0.011	0.017	0.179	0.500	0.206	0.137	0.041	0.057	0.013
	Jokioinen	0.000	2.183	0.010	0.002	0.165	0.652	0.268	0.179	0.073	0.058	0.011
	Kremsmunster	0.006	2.265	0.002	0.011	0.116	0.339	0.151	0.100	0.020	0.038	0.011
	Okehampton	0.021	1.889	0.007	0.026	0.141	0.329	0.125	0.083	0.025	0.042	0.009
	Piacenza	0.014	1.791	0.005	0.017	0.092	0.217	0.114	0.076	0.015	0.028	0.009
	Porto	0.008	1.379	0.012	0.018	0.092	0.199	0.088	0.059	0.017	0.028	0.007
	Seville	0.000	1.536	0.001	0.000	0.029	0.126	0.095	0.064	0.006	0.010	0.007
	Thiva	0.000	2.241	0.000	0.001	0.034	0.159	0.124	0.082	0.006	0.012	0.011

Table 9.2.4- 191: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:1 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.027	2.542	0.002	0.010	0.080	0.264	0.154	0.103	0.010	0.026	0.012
	Hamburg	0.099	2.801	0.018	0.042	0.189	0.500	0.200	0.133	0.043	0.059	0.013
	Jokioinen	0.005	2.166	0.013	0.008	0.169	0.642	0.262	0.175	0.072	0.057	0.011
	Kremsmunster	0.081	2.240	0.007	0.027	0.126	0.338	0.147	0.098	0.021	0.039	0.011
	Okehampton	0.130	1.856	0.012	0.053	0.145	0.324	0.121	0.080	0.027	0.043	0.009
	Piacenza	0.098	1.781	0.009	0.037	0.097	0.218	0.112	0.074	0.015	0.029	0.009
	Porto	0.070	1.352	0.019	0.039	0.095	0.199	0.086	0.058	0.018	0.028	0.006
	Seville	0.000	1.525	0.001	0.001	0.032	0.127	0.094	0.062	0.006	0.011	0.007
	Thiva	0.008	2.217	0.001	0.004	0.039	0.161	0.120	0.080	0.006	0.013	0.011

Table 9.2.4- 192: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:1 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	2.477	0.000	0.064	0.249	0.223	0.148	0.008	0.022	0.012
	Hamburg	0.008	2.754	0.007	0.166	0.486	0.281	0.187	0.037	0.054	0.013
	Jokioinen	0.000	2.163	0.007	0.156	0.651	0.363	0.242	0.071	0.056	0.011
	Kremsmunster	0.006	2.207	0.001	0.107	0.329	0.205	0.137	0.018	0.036	0.011
	Okehampton	0.021	1.842	0.004	0.130	0.318	0.154	0.102	0.023	0.040	0.009
	Piacenza	0.014	1.738	0.004	0.083	0.207	0.146	0.097	0.013	0.026	0.009
	Porto	0.008	1.336	0.007	0.083	0.190	0.112	0.075	0.016	0.026	0.007
	Seville	0.000	1.480	0.000	0.026	0.119	0.128	0.085	0.006	0.009	0.007
	Thiva	0.000	2.165	0.000	0.030	0.150	0.174	0.116	0.005	0.011	0.011

Table 9.2.4- 193: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:1 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.027	2.464	0.001	0.072	0.254	0.152	0.101	0.009	0.024	0.012
	Hamburg	0.099	2.737	0.013	0.177	0.487	0.197	0.132	0.040	0.056	0.013
	Jokioinen	0.005	2.148	0.010	0.161	0.639	0.263	0.175	0.071	0.056	0.011
	Kremsmunster	0.081	2.188	0.005	0.117	0.329	0.145	0.097	0.019	0.037	0.011
	Okehampton	0.130	1.816	0.009	0.135	0.315	0.120	0.080	0.025	0.041	0.009
	Piacenza	0.098	1.732	0.006	0.089	0.209	0.110	0.074	0.014	0.027	0.009
	Porto	0.070	1.317	0.013	0.087	0.190	0.085	0.057	0.017	0.026	0.006
	Seville	0.000	1.469	0.001	0.029	0.120	0.091	0.061	0.006	0.010	0.007
	Thiva	0.008	2.143	0.001	0.035	0.153	0.117	0.078	0.006	0.012	0.011

Table 9.2.4- 194: FOCUS MACRO, PECgw results of fluopicolide – 1 x 100 g/ha 1:1 year, early application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - MACRO Fluopicolide
Potatoes	Chateaudun	0.0039

1:1 year rotation – Late window

Table 9.2.4- 195: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:1 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.702	0.000	0.001	0.033	0.118	0.076	0.051	0.020	0.011	0.005
	Hamburg	0.004	0.876	0.002	0.007	0.071	0.258	0.103	0.069	0.056	0.024	0.006
	Jokioinen	0.000	0.722	0.001	0.001	0.056	0.265	0.117	0.078	0.064	0.021	0.004
	Kremsmunster	0.002	0.667	0.001	0.003	0.040	0.127	0.059	0.039	0.024	0.013	0.004
	Okehampton	0.005	0.644	0.002	0.008	0.054	0.133	0.054	0.036	0.028	0.017	0.004
	Piacenza	0.004	0.532	0.001	0.006	0.037	0.095	0.053	0.035	0.018	0.012	0.004
	Porto	0.001	0.457	0.001	0.003	0.026	0.070	0.033	0.022	0.013	0.008	0.002
	Seville	0.000	0.468	0.000	0.000	0.010	0.054	0.039	0.026	0.008	0.004	0.003
	Thiva	0.000	0.559	0.000	0.000	0.014	0.078	0.064	0.043	0.011	0.005	0.005

Table 9.2.4- 196: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:1 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.010	0.738	0.001	0.005	0.038	0.121	0.077	0.051	0.021	0.013	0.005
	Hamburg	0.040	0.903	0.004	0.018	0.079	0.259	0.102	0.068	0.057	0.025	0.006
	Jokioinen	0.000	0.748	0.002	0.003	0.061	0.271	0.117	0.078	0.064	0.022	0.004
	Kremsmunster	0.027	0.694	0.002	0.010	0.045	0.129	0.059	0.039	0.025	0.014	0.004
	Okehampton	0.043	0.649	0.004	0.019	0.057	0.135	0.054	0.036	0.029	0.017	0.004
	Piacenza	0.032	0.548	0.002	0.013	0.040	0.096	0.053	0.035	0.018	0.012	0.004
	Porto	0.011	0.472	0.002	0.007	0.030	0.075	0.034	0.023	0.014	0.009	0.002
	Seville	0.000	0.482	0.000	0.000	0.011	0.055	0.039	0.026	0.009	0.004	0.003
	Thiva	0.003	0.586	0.000	0.002	0.017	0.080	0.064	0.043	0.011	0.006	0.005

Table 9.2.4- 197: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:1 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.672	0.000	0.030	0.010	0.075	0.050	0.020	0.115	0.005
	Hamburg	0.004	0.848	0.001	0.067	0.023	0.102	0.068	0.057	0.257	0.006
	Jokioinen	0.000	0.699	0.001	0.053	0.020	0.116	0.078	0.064	0.262	0.004
	Kremsmunster	0.002	0.645	0.000	0.037	0.012	0.058	0.039	0.023	0.125	0.004
	Okehampton	0.005	0.627	0.001	0.052	0.016	0.054	0.036	0.027	0.132	0.004
	Piacenza	0.004	0.516	0.001	0.035	0.011	0.053	0.036	0.018	0.094	0.004
	Porto	0.001	0.444	0.000	0.023	0.008	0.033	0.022	0.012	0.066	0.002
	Seville	0.000	0.451	0.000	0.009	0.003	0.038	0.026	0.008	0.051	0.003
	Thiva	0.000	0.538	0.000	0.013	0.005	0.063	0.042	0.010	0.075	0.005

Table 9.2.4- 198: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:1 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.010	0.707	0.001	0.034	0.119	0.076	0.051	0.021	0.012	0.005
	Hamburg	0.040	0.874	0.003	0.074	0.258	0.102	0.068	0.057	0.024	0.006
	Jokioinen	0.000	0.721	0.002	0.057	0.267	0.116	0.078	0.064	0.021	0.004
	Kremsmunster	0.027	0.673	0.001	0.042	0.127	0.058	0.039	0.024	0.013	0.004
	Okehampton	0.043	0.635	0.002	0.055	0.134	0.054	0.036	0.028	0.017	0.004
	Piacenza	0.032	0.531	0.002	0.038	0.096	0.053	0.035	0.018	0.012	0.004
	Porto	0.011	0.456	0.001	0.027	0.072	0.033	0.022	0.013	0.009	0.002
	Seville	0.000	0.464	0.000	0.010	0.053	0.039	0.026	0.008	0.004	0.003
	Thiva	0.003	0.556	0.000	0.015	0.078	0.063	0.042	0.011	0.005	0.005

Table 9.2.4- 199: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:1 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.901	0.000	0.000	0.026	0.097	0.058	0.039	0.004	0.009	0.004
	Hamburg	0.002	1.017	0.004	0.005	0.065	0.185	0.078	0.052	0.016	0.021	0.005
	Jokioinen	0.000	0.780	0.003	0.001	0.057	0.240	0.100	0.067	0.027	0.020	0.004
	Kremsmunster	0.001	0.810	0.001	0.003	0.040	0.127	0.056	0.038	0.008	0.013	0.004
	Okehampton	0.005	0.700	0.002	0.008	0.053	0.125	0.047	0.032	0.011	0.016	0.003
	Piacenza	0.003	0.647	0.002	0.006	0.036	0.091	0.046	0.030	0.007	0.011	0.003
	Porto	0.002	0.509	0.004	0.005	0.036	0.080	0.034	0.023	0.007	0.011	0.003
	Seville	0.000	0.575	0.000	0.000	0.010	0.052	0.039	0.026	0.003	0.004	0.003
	Thiva	0.000	0.830	0.000	0.000	0.014	0.070	0.050	0.034	0.003	0.005	0.004

Table 9.2.4- 200: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:1 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.004	0.889	0.000	0.002	0.028	0.096	0.057	0.038	0.004	0.009	0.004
	Hamburg	0.025	1.016	0.006	0.014	0.068	0.186	0.076	0.050	0.017	0.022	0.005
	Jokioinen	0.001	0.775	0.004	0.002	0.058	0.238	0.098	0.066	0.027	0.020	0.004
	Kremsmunster	0.019	0.804	0.002	0.008	0.043	0.126	0.055	0.037	0.008	0.014	0.004
	Okehampton	0.038	0.692	0.004	0.018	0.055	0.124	0.046	0.030	0.011	0.016	0.003
	Piacenza	0.027	0.647	0.003	0.013	0.038	0.091	0.044	0.029	0.007	0.011	0.003
	Porto	0.016	0.500	0.006	0.011	0.037	0.079	0.034	0.022	0.008	0.011	0.002
	Seville	0.000	0.566	0.000	0.000	0.011	0.052	0.038	0.025	0.003	0.004	0.003
	Thiva	0.001	0.808	0.000	0.001	0.015	0.069	0.049	0.032	0.003	0.005	0.004

Table 9.2.4- 201: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:1 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.872	0.000	0.023	0.095	0.058	0.038	0.003	0.008	0.004
	Hamburg	0.002	0.992	0.002	0.062	0.182	0.077	0.052	0.016	0.020	0.005
	Jokioinen	0.000	0.765	0.002	0.054	0.239	0.100	0.066	0.027	0.020	0.004
	Kremsmunster	0.001	0.788	0.000	0.037	0.127	0.056	0.038	0.008	0.012	0.004
	Okehampton	0.005	0.687	0.001	0.050	0.124	0.047	0.032	0.010	0.016	0.003
	Piacenza	0.003	0.626	0.001	0.035	0.090	0.046	0.030	0.007	0.011	0.003
	Porto	0.002	0.495	0.002	0.033	0.077	0.033	0.022	0.007	0.010	0.003
	Seville	0.000	0.555	0.000	0.009	0.049	0.038	0.025	0.002	0.003	0.003
	Thiva	0.000	0.802	0.000	0.012	0.067	0.050	0.033	0.003	0.004	0.004

Table 9.2.4- 202: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:1 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.004	0.862	0.000	0.026	0.094	0.056	0.038	0.004	0.009	0.004
	Hamburg	0.025	0.993	0.004	0.065	0.182	0.076	0.050	0.017	0.021	0.005
	Jokioinen	0.001	0.760	0.003	0.056	0.236	0.098	0.065	0.026	0.020	0.004
	Kremsmunster	0.019	0.783	0.001	0.040	0.125	0.055	0.036	0.008	0.013	0.004
	Okehampton	0.038	0.681	0.003	0.053	0.123	0.046	0.030	0.011	0.016	0.003
	Piacenza	0.027	0.627	0.002	0.037	0.090	0.044	0.029	0.007	0.011	0.003
	Porto	0.016	0.488	0.004	0.034	0.076	0.032	0.022	0.007	0.011	0.002
	Seville	0.000	0.545	0.000	0.010	0.050	0.037	0.025	0.002	0.004	0.003
	Thiva	0.001	0.779	0.000	0.013	0.067	0.048	0.032	0.003	0.005	0.004

Table 9.2.4- 203: FOCUS MACRO, PECgw results of fluopicolide – 1 x 100 g/ha 1:1 year, late application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0011

1:2 year rotation – Early window

Table 9.2.4- 204: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:2 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	0.944	0.000	0.002	0.042	0.155	0.105	0.070	0.025	0.014	0.007
	Hamburg	0.007	1.186	0.003	0.011	0.097	0.319	0.124	0.083	0.069	0.032	0.008
	Jokioinen	0.000	1.018	0.003	0.001	0.079	0.346	0.149	0.099	0.083	0.028	0.006
	Kremsmunster	0.003	0.903	0.001	0.005	0.054	0.167	0.075	0.050	0.031	0.017	0.006
	Okehampton	0.008	0.858	0.002	0.011	0.070	0.164	0.065	0.043	0.035	0.022	0.005
	Piacenza	0.005	0.715	0.001	0.007	0.046	0.113	0.063	0.042	0.021	0.014	0.005
	Porto	0.001	0.588	0.002	0.004	0.032	0.081	0.039	0.026	0.016	0.010	0.003
	Seville	0.000	0.552	0.000	0.000	0.012	0.058	0.048	0.032	0.009	0.004	0.003
	Thiva	0.000	0.756	0.000	0.001	0.019	0.079	0.084	0.056	0.010	0.006	0.006

Table 9.2.4- 205: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:2 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.017	0.993	0.002	0.008	0.049	0.162	0.106	0.071	0.027	0.016	0.007
	Hamburg	0.055	1.210	0.005	0.025	0.105	0.322	0.123	0.082	0.071	0.034	0.008
	Jokioinen	0.006	1.046	0.005	0.004	0.085	0.355	0.149	0.100	0.085	0.029	0.006
	Kremsmunster	0.039	0.935	0.003	0.015	0.059	0.170	0.075	0.050	0.033	0.019	0.006
	Okehampton	0.059	0.873	0.005	0.024	0.075	0.167	0.064	0.043	0.036	0.023	0.005
	Piacenza	0.040	0.738	0.003	0.016	0.051	0.116	0.063	0.042	0.022	0.015	0.005
	Porto	0.018	0.608	0.004	0.011	0.036	0.088	0.040	0.027	0.017	0.011	0.003
	Seville	0.000	0.573	0.000	0.000	0.013	0.060	0.048	0.032	0.009	0.005	0.003
	Thiva	0.004	0.788	0.001	0.003	0.023	0.084	0.083	0.056	0.011	0.007	0.006

Table 9.2.4- 206: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:2 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	0.904	0.000	0.037	0.013	0.103	0.069	0.023	0.149	0.007
	Hamburg	0.007	1.148	0.001	0.090	0.030	0.123	0.082	0.067	0.310	0.008
	Jokioinen	0.000	0.987	0.002	0.075	0.027	0.146	0.098	0.081	0.342	0.006
	Kremsmunster	0.003	0.873	0.000	0.049	0.016	0.074	0.049	0.030	0.162	0.006
	Okehampton	0.008	0.830	0.001	0.065	0.021	0.064	0.042	0.034	0.159	0.005
	Piacenza	0.005	0.675	0.001	0.041	0.013	0.062	0.041	0.019	0.109	0.005
	Porto	0.001	0.564	0.001	0.029	0.009	0.038	0.025	0.014	0.076	0.003
	Seville	0.000	0.522	0.000	0.011	0.004	0.047	0.031	0.008	0.054	0.003
	Thiva	0.000	0.710	0.000	0.016	0.006	0.082	0.055	0.009	0.074	0.006

Table 9.2.4- 207: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:2 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.017	0.951	0.001	0.044	0.156	0.105	0.070	0.025	0.015	0.007
	Hamburg	0.055	1.177	0.003	0.098	0.315	0.122	0.081	0.069	0.032	0.008
	Jokioinen	0.006	1.016	0.004	0.081	0.350	0.147	0.098	0.084	0.028	0.006
	Kremsmunster	0.039	0.901	0.002	0.055	0.166	0.074	0.049	0.031	0.017	0.006
	Okehampton	0.059	0.849	0.003	0.071	0.162	0.063	0.042	0.035	0.022	0.005
	Piacenza	0.040	0.703	0.002	0.046	0.112	0.061	0.041	0.020	0.014	0.005
	Porto	0.018	0.585	0.002	0.033	0.082	0.039	0.026	0.016	0.010	0.003
	Seville	0.000	0.542	0.000	0.012	0.056	0.047	0.031	0.009	0.004	0.003
	Thiva	0.004	0.741	0.000	0.020	0.079	0.082	0.055	0.010	0.007	0.006

Table 9.2.4- 208: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:2 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	1.188	0.000	0.001	0.032	0.121	0.081	0.054	0.004	0.011	0.006
	Hamburg	0.004	1.359	0.004	0.008	0.086	0.250	0.102	0.068	0.020	0.028	0.007
	Jokioinen	0.000	1.104	0.006	0.001	0.077	0.300	0.132	0.088	0.034	0.026	0.006
	Kremsmunster	0.002	1.077	0.001	0.004	0.054	0.166	0.075	0.050	0.009	0.017	0.005
	Okehampton	0.007	0.935	0.003	0.010	0.067	0.155	0.056	0.038	0.013	0.021	0.005
	Piacenza	0.004	0.907	0.002	0.007	0.045	0.103	0.053	0.035	0.007	0.014	0.004
	Porto	0.003	0.657	0.005	0.008	0.043	0.095	0.041	0.027	0.009	0.013	0.003
	Seville	0.000	0.714	0.000	0.000	0.012	0.060	0.047	0.031	0.003	0.004	0.004
	Thiva	0.000	0.997	0.000	0.000	0.015	0.064	0.064	0.042	0.002	0.005	0.005

Table 9.2.4- 209: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:2 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.008	1.179	0.001	0.004	0.037	0.122	0.080	0.053	0.005	0.012	0.006
	Hamburg	0.037	1.336	0.007	0.019	0.091	0.250	0.100	0.066	0.021	0.029	0.007
	Jokioinen	0.004	1.111	0.008	0.003	0.080	0.295	0.130	0.086	0.034	0.027	0.006
	Kremsmunster	0.029	1.070	0.003	0.012	0.058	0.166	0.073	0.049	0.010	0.018	0.005
	Okehampton	0.050	0.918	0.005	0.021	0.071	0.153	0.055	0.036	0.013	0.022	0.004
	Piacenza	0.035	0.908	0.004	0.016	0.049	0.105	0.052	0.034	0.008	0.015	0.004
	Porto	0.024	0.649	0.008	0.016	0.045	0.099	0.040	0.027	0.009	0.014	0.003
	Seville	0.000	0.712	0.000	0.000	0.013	0.060	0.046	0.030	0.003	0.005	0.003
	Thiva	0.002	0.986	0.001	0.002	0.017	0.065	0.062	0.042	0.002	0.006	0.005

Table 9.2.4- 210: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:2 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	1.146	0.000	0.029	0.117	0.080	0.054	0.004	0.010	0.006
	Hamburg	0.004	1.326	0.003	0.080	0.241	0.100	0.067	0.018	0.026	0.007
	Jokioinen	0.000	1.082	0.005	0.074	0.296	0.130	0.087	0.033	0.025	0.006
	Kremsmunster	0.002	1.052	0.001	0.049	0.161	0.074	0.049	0.009	0.016	0.005
	Okehampton	0.007	0.903	0.002	0.062	0.150	0.056	0.038	0.012	0.020	0.005
	Piacenza	0.004	0.874	0.002	0.041	0.098	0.052	0.034	0.006	0.013	0.004
	Porto	0.003	0.635	0.003	0.039	0.090	0.040	0.026	0.008	0.012	0.003
	Seville	0.000	0.691	0.000	0.011	0.057	0.046	0.031	0.003	0.004	0.004
	Thiva	0.000	0.962	0.000	0.013	0.060	0.063	0.042	0.002	0.004	0.005

Table 9.2.4- 211: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:2 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.008	1.142	0.001	0.033	0.119	0.079	0.053	0.004	0.011	0.006
	Hamburg	0.037	1.308	0.005	0.085	0.242	0.098	0.065	0.019	0.027	0.007
	Jokioinen	0.004	1.089	0.006	0.076	0.295	0.128	0.086	0.033	0.026	0.006
	Kremsmunster	0.029	1.046	0.002	0.053	0.161	0.072	0.048	0.009	0.017	0.005
	Okehampton	0.050	0.894	0.004	0.066	0.149	0.055	0.036	0.012	0.021	0.004
	Piacenza	0.035	0.876	0.003	0.045	0.100	0.050	0.034	0.007	0.014	0.004
	Porto	0.024	0.625	0.005	0.041	0.094	0.039	0.026	0.009	0.013	0.003
	Seville	0.000	0.684	0.000	0.012	0.058	0.044	0.030	0.003	0.004	0.003
	Thiva	0.002	0.952	0.000	0.015	0.061	0.061	0.040	0.002	0.005	0.005

Table 9.2.4- 212: FOCUS MACRO, PECgw results of fluopicolide – 1 x 100 g/ha 1:2 year, early application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - MACRO Fluopicolide
Potatoes	Chateaudun	0.0011

1:2 year rotation – Late window

Table 9.2.4- 213: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:2 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.333	0.000	0.000	0.015	0.058	0.038	0.026	0.010	0.005	0.003
	Hamburg	0.001	0.416	0.001	0.003	0.034	0.121	0.047	0.031	0.026	0.011	0.003
	Jokioinen	0.000	0.356	0.001	0.000	0.026	0.131	0.059	0.040	0.031	0.010	0.002
	Kremsmunster	0.000	0.317	0.000	0.001	0.019	0.064	0.029	0.019	0.012	0.006	0.002
	Okehampton	0.002	0.312	0.001	0.003	0.025	0.064	0.024	0.016	0.014	0.008	0.002
	Piacenza	0.001	0.260	0.000	0.002	0.018	0.047	0.028	0.018	0.009	0.006	0.002
	Porto	0.000	0.219	0.000	0.001	0.013	0.032	0.015	0.010	0.006	0.004	0.001
	Seville	0.000	0.203	0.000	0.000	0.004	0.024	0.019	0.012	0.004	0.002	0.001
	Thiva	0.000	0.283	0.000	0.000	0.008	0.033	0.032	0.021	0.005	0.003	0.003

Table 9.2.4- 214: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:2 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.003	0.348	0.000	0.002	0.017	0.060	0.039	0.026	0.010	0.006	0.003
	Hamburg	0.015	0.425	0.002	0.008	0.037	0.122	0.047	0.031	0.027	0.012	0.003
	Jokioinen	0.001	0.368	0.001	0.001	0.029	0.134	0.059	0.039	0.031	0.010	0.002
	Kremsmunster	0.009	0.329	0.001	0.004	0.022	0.065	0.029	0.019	0.012	0.007	0.002
	Okehampton	0.016	0.317	0.002	0.008	0.027	0.065	0.024	0.016	0.014	0.009	0.002
	Piacenza	0.012	0.270	0.001	0.005	0.019	0.047	0.028	0.018	0.009	0.006	0.002
	Porto	0.004	0.226	0.001	0.003	0.014	0.035	0.016	0.011	0.007	0.005	0.001
	Seville	0.000	0.208	0.000	0.000	0.005	0.026	0.019	0.013	0.004	0.002	0.001
	Thiva	0.001	0.298	0.000	0.001	0.010	0.035	0.032	0.021	0.005	0.003	0.003

Table 9.2.4- 215: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:2 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.319	0.000	0.013	0.005	0.038	0.025	0.009	0.056	0.003
	Hamburg	0.001	0.402	0.000	0.032	0.011	0.047	0.031	0.026	0.120	0.003
	Jokioinen	0.000	0.343	0.001	0.025	0.009	0.060	0.040	0.031	0.131	0.002
	Kremsmunster	0.000	0.305	0.000	0.018	0.006	0.029	0.019	0.012	0.063	0.002
	Okehampton	0.002	0.303	0.000	0.024	0.008	0.024	0.016	0.014	0.063	0.002
	Piacenza	0.001	0.249	0.000	0.017	0.005	0.027	0.018	0.009	0.046	0.002
	Porto	0.000	0.212	0.000	0.011	0.004	0.015	0.010	0.006	0.030	0.001
	Seville	0.000	0.196	0.000	0.004	0.001	0.018	0.012	0.003	0.023	0.001
	Thiva	0.000	0.274	0.000	0.007	0.003	0.032	0.021	0.004	0.032	0.003

Table 9.2.4- 216: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:2 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.003	0.334	0.000	0.016	0.058	0.039	0.026	0.010	0.005	0.003
	Hamburg	0.015	0.412	0.001	0.035	0.121	0.047	0.031	0.026	0.012	0.003
	Jokioinen	0.001	0.355	0.001	0.027	0.133	0.060	0.040	0.031	0.010	0.002
	Kremsmunster	0.009	0.318	0.001	0.020	0.064	0.029	0.019	0.012	0.006	0.002
	Okehampton	0.016	0.311	0.001	0.026	0.064	0.024	0.016	0.014	0.008	0.002
	Piacenza	0.012	0.259	0.001	0.018	0.047	0.027	0.018	0.009	0.006	0.002
	Porto	0.004	0.219	0.001	0.013	0.033	0.015	0.010	0.007	0.004	0.001
	Seville	0.000	0.201	0.000	0.004	0.024	0.019	0.012	0.004	0.002	0.001
	Thiva	0.001	0.286	0.000	0.009	0.033	0.032	0.021	0.005	0.003	0.003

Table 9.2.4- 217: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:2 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.422	0.000	0.000	0.011	0.047	0.029	0.019	0.002	0.004	0.002
	Hamburg	0.001	0.476	0.001	0.002	0.030	0.096	0.039	0.026	0.008	0.010	0.002
	Jokioinen	0.000	0.383	0.002	0.000	0.026	0.115	0.051	0.034	0.013	0.009	0.002
	Kremsmunster	0.001	0.383	0.000	0.001	0.019	0.063	0.029	0.020	0.004	0.006	0.002
	Okehampton	0.002	0.341	0.001	0.003	0.025	0.060	0.022	0.014	0.005	0.008	0.002
	Piacenza	0.001	0.316	0.001	0.002	0.017	0.044	0.023	0.016	0.003	0.005	0.002
	Porto	0.001	0.237	0.002	0.002	0.017	0.038	0.016	0.011	0.004	0.005	0.001
	Seville	0.000	0.268	0.000	0.000	0.004	0.025	0.019	0.012	0.001	0.002	0.001
	Thiva	0.000	0.392	0.000	0.000	0.007	0.029	0.026	0.017	0.001	0.002	0.002

Table 9.2.4- 218: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:2 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.002	0.419	0.000	0.001	0.012	0.047	0.028	0.019	0.002	0.004	0.002
	Hamburg	0.009	0.478	0.002	0.006	0.032	0.096	0.038	0.025	0.008	0.010	0.002
	Jokioinen	0.001	0.383	0.002	0.001	0.027	0.114	0.050	0.033	0.013	0.010	0.002
	Kremsmunster	0.006	0.382	0.001	0.003	0.021	0.062	0.029	0.019	0.004	0.007	0.002
	Okehampton	0.015	0.336	0.002	0.007	0.026	0.059	0.021	0.014	0.005	0.008	0.002
	Piacenza	0.010	0.318	0.001	0.005	0.018	0.044	0.023	0.015	0.003	0.006	0.002
	Porto	0.005	0.236	0.003	0.005	0.018	0.039	0.016	0.010	0.004	0.005	0.001
	Seville	0.000	0.263	0.000	0.000	0.005	0.025	0.018	0.012	0.001	0.002	0.001
	Thiva	0.000	0.381	0.000	0.000	0.007	0.029	0.025	0.016	0.001	0.002	0.002

Table 9.2.4- 219: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:2 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.408	0.000	0.010	0.044	0.029	0.019	0.001	0.003	0.002
	Hamburg	0.001	0.463	0.001	0.027	0.088	0.038	0.026	0.008	0.009	0.002
	Jokioinen	0.000	0.373	0.001	0.025	0.110	0.051	0.034	0.013	0.009	0.002
	Kremsmunster	0.001	0.371	0.000	0.017	0.059	0.029	0.019	0.004	0.006	0.002
	Okehampton	0.002	0.335	0.000	0.022	0.055	0.022	0.014	0.005	0.007	0.002
	Piacenza	0.001	0.307	0.000	0.014	0.036	0.023	0.015	0.003	0.005	0.002
	Porto	0.001	0.231	0.001	0.014	0.033	0.016	0.010	0.003	0.004	0.001
	Seville	0.000	0.256	0.000	0.004	0.021	0.018	0.012	0.001	0.001	0.001
	Thiva	0.000	0.375	0.000	0.004	0.022	0.025	0.017	0.001	0.002	0.002

Table 9.2.4- 220: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:2 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.002	0.405	0.000	0.011	0.044	0.112	0.075	0.008	0.004	0.002
	Hamburg	0.009	0.465	0.001	0.029	0.088	0.150	0.100	0.034	0.010	0.002
	Jokioinen	0.001	0.373	0.002	0.026	0.110	0.194	0.130	0.053	0.009	0.002
	Kremsmunster	0.006	0.372	0.000	0.018	0.059	0.109	0.072	0.016	0.006	0.002
	Okehampton	0.015	0.333	0.001	0.023	0.055	0.091	0.061	0.022	0.007	0.002
	Piacenza	0.010	0.309	0.001	0.015	0.037	0.087	0.058	0.015	0.005	0.002
	Porto	0.005	0.229	0.002	0.015	0.034	0.064	0.043	0.014	0.005	0.001
	Seville	0.000	0.251	0.000	0.004	0.021	0.073	0.049	0.005	0.001	0.001
	Thiva	0.000	0.365	0.000	0.005	0.022	0.095	0.064	0.005	0.002	0.002

Table 9.2.4- 221: FOCUS MACRO, PECgw results of fluopicolide – 1 x 100 g/ha 1:2 year, late application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0003

1:3 year rotation – Early window

Table 9.2.4- 222: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:3 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.623	0.000	0.001	0.027	0.101	0.066	0.044	0.017	0.009	0.005
	Hamburg	0.003	0.751	0.002	0.006	0.062	0.191	0.072	0.048	0.042	0.021	0.005
	Jokioinen	0.000	0.674	0.002	0.001	0.050	0.217	0.086	0.057	0.054	0.018	0.004
	Kremsmunster	0.002	0.592	0.001	0.003	0.035	0.114	0.052	0.035	0.021	0.011	0.004
	Okehampton	0.004	0.560	0.001	0.007	0.045	0.107	0.042	0.028	0.023	0.014	0.003
	Piacenza	0.003	0.467	0.001	0.004	0.031	0.074	0.043	0.029	0.014	0.010	0.003
	Porto	0.001	0.379	0.001	0.002	0.021	0.053	0.025	0.016	0.010	0.007	0.002
	Seville	0.000	0.325	0.000	0.000	0.007	0.040	0.032	0.021	0.006	0.003	0.002
	Thiva	0.000	0.507	0.000	0.000	0.013	0.058	0.056	0.037	0.007	0.004	0.005

Table 9.2.4- 223: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:3 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.009	0.649	0.001	0.005	0.032	0.105	0.066	0.044	0.018	0.011	0.005
	Hamburg	0.031	0.776	0.003	0.015	0.068	0.193	0.072	0.048	0.044	0.022	0.005
	Jokioinen	0.003	0.691	0.003	0.003	0.054	0.218	0.086	0.057	0.054	0.019	0.004
	Kremsmunster	0.022	0.617	0.002	0.010	0.038	0.116	0.052	0.035	0.022	0.012	0.004
	Okehampton	0.034	0.569	0.003	0.015	0.049	0.109	0.041	0.027	0.024	0.015	0.003
	Piacenza	0.023	0.480	0.002	0.011	0.034	0.076	0.043	0.029	0.015	0.010	0.003
	Porto	0.009	0.392	0.002	0.006	0.024	0.056	0.025	0.017	0.011	0.008	0.002
	Seville	0.000	0.335	0.000	0.000	0.008	0.041	0.032	0.021	0.006	0.003	0.002
	Thiva	0.002	0.531	0.000	0.001	0.015	0.060	0.056	0.037	0.008	0.005	0.005

Table 9.2.4- 224: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:3 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.596	0.000	0.024	0.008	0.065	0.044	0.016	0.098	0.005
	Hamburg	0.003	0.722	0.001	0.057	0.019	0.072	0.048	0.041	0.186	0.005
	Jokioinen	0.000	0.658	0.001	0.047	0.017	0.086	0.057	0.053	0.217	0.004
	Kremsmunster	0.002	0.564	0.000	0.032	0.011	0.052	0.035	0.020	0.112	0.004
	Okehampton	0.004	0.537	0.001	0.041	0.013	0.041	0.028	0.022	0.104	0.003
	Piacenza	0.003	0.442	0.000	0.028	0.009	0.042	0.028	0.013	0.070	0.003
	Porto	0.001	0.362	0.000	0.019	0.006	0.024	0.016	0.009	0.050	0.002
	Seville	0.000	0.307	0.000	0.007	0.002	0.031	0.021	0.006	0.038	0.002
	Thiva	0.000	0.473	0.000	0.011	0.004	0.055	0.037	0.007	0.054	0.005

Table 9.2.4- 225: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:3 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.009	0.623	0.001	0.028	0.102	0.066	0.044	0.017	0.010	0.005
	Hamburg	0.031	0.747	0.002	0.063	0.189	0.071	0.048	0.042	0.021	0.005
	Jokioinen	0.003	0.675	0.002	0.050	0.218	0.086	0.057	0.054	0.018	0.004
	Kremsmunster	0.022	0.590	0.001	0.035	0.115	0.052	0.035	0.021	0.011	0.004
	Okehampton	0.034	0.549	0.002	0.045	0.106	0.041	0.027	0.023	0.014	0.003
	Piacenza	0.023	0.459	0.001	0.031	0.072	0.042	0.028	0.014	0.010	0.003
	Porto	0.009	0.377	0.001	0.022	0.053	0.024	0.016	0.010	0.007	0.002
	Seville	0.000	0.317	0.000	0.008	0.039	0.031	0.021	0.006	0.003	0.002
	Thiva	0.002	0.502	0.000	0.013	0.057	0.055	0.037	0.007	0.004	0.005

Table 9.2.4- 226: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:3 year, early application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.772	0.000	0.001	0.020	0.082	0.052	0.035	0.002	0.007	0.004
	Hamburg	0.002	0.878	0.003	0.005	0.056	0.159	0.062	0.042	0.013	0.018	0.004
	Jokioinen	0.000	0.717	0.004	0.001	0.048	0.202	0.073	0.048	0.023	0.017	0.004
	Kremsmunster	0.001	0.717	0.001	0.003	0.035	0.109	0.049	0.033	0.006	0.011	0.004
	Okehampton	0.004	0.605	0.002	0.006	0.044	0.100	0.037	0.025	0.008	0.014	0.003
	Piacenza	0.002	0.578	0.002	0.004	0.031	0.071	0.035	0.024	0.005	0.009	0.003
	Porto	0.001	0.422	0.003	0.004	0.029	0.062	0.026	0.017	0.006	0.009	0.002
	Seville	0.000	0.438	0.000	0.000	0.010	0.043	0.031	0.020	0.002	0.003	0.002
	Thiva	0.000	0.730	0.000	0.000	0.011	0.048	0.041	0.028	0.002	0.004	0.004

Table 9.2.4- 227: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:3 year, early application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.004	0.776	0.001	0.003	0.023	0.082	0.051	0.034	0.003	0.008	0.004
	Hamburg	0.019	0.871	0.005	0.011	0.059	0.158	0.061	0.040	0.014	0.019	0.004
	Jokioinen	0.002	0.714	0.005	0.002	0.051	0.198	0.070	0.047	0.023	0.018	0.004
	Kremsmunster	0.016	0.719	0.002	0.007	0.038	0.110	0.048	0.032	0.006	0.012	0.004
	Okehampton	0.030	0.594	0.003	0.013	0.047	0.100	0.036	0.024	0.009	0.014	0.003
	Piacenza	0.020	0.575	0.003	0.010	0.033	0.071	0.035	0.023	0.005	0.010	0.003
	Porto	0.012	0.421	0.005	0.009	0.031	0.064	0.026	0.017	0.007	0.009	0.002
	Seville	0.000	0.430	0.000	0.000	0.010	0.043	0.029	0.020	0.002	0.004	0.002
	Thiva	0.001	0.720	0.000	0.001	0.012	0.050	0.040	0.027	0.002	0.004	0.004

Table 9.2.4- 228: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:3 year, early application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.748	0.000	0.018	0.079	0.080	0.054	0.004	0.006	0.004
	Hamburg	0.002	0.852	0.002	0.051	0.153	0.100	0.067	0.018	0.017	0.004
	Jokioinen	0.000	0.706	0.003	0.046	0.202	0.130	0.087	0.033	0.017	0.004
	Kremsmunster	0.001	0.694	0.000	0.032	0.105	0.074	0.049	0.009	0.011	0.004
	Okehampton	0.004	0.587	0.001	0.040	0.097	0.056	0.038	0.012	0.013	0.003
	Piacenza	0.002	0.557	0.001	0.028	0.069	0.052	0.034	0.006	0.009	0.003
	Porto	0.001	0.408	0.002	0.026	0.059	0.040	0.026	0.008	0.008	0.002
	Seville	0.000	0.423	0.000	0.009	0.041	0.046	0.031	0.003	0.003	0.002
	Thiva	0.000	0.707	0.000	0.009	0.046	0.063	0.042	0.002	0.003	0.004

Table 9.2.4- 229: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:3 year, early application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.004	0.752	0.000	0.020	0.079	0.050	0.034	0.003	0.007	0.004
	Hamburg	0.019	0.847	0.003	0.055	0.153	0.060	0.040	0.013	0.018	0.004
	Jokioinen	0.002	0.703	0.004	0.048	0.198	0.072	0.048	0.023	0.017	0.004
	Kremsmunster	0.016	0.694	0.001	0.035	0.106	0.048	0.032	0.006	0.011	0.004
	Okehampton	0.030	0.589	0.002	0.043	0.097	0.035	0.024	0.008	0.014	0.003
	Piacenza	0.020	0.555	0.002	0.030	0.069	0.034	0.023	0.005	0.009	0.003
	Porto	0.012	0.407	0.003	0.028	0.061	0.025	0.017	0.006	0.009	0.002
	Seville	0.000	0.415	0.000	0.009	0.041	0.029	0.019	0.002	0.003	0.002
	Thiva	0.001	0.698	0.000	0.011	0.047	0.040	0.027	0.002	0.004	0.004

Table 9.2.4- 230: FOCUS MACRO, PECgw results of fluopicolide – 1 x 100 g/ha 1:3 year, early application

	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0009

1:3 year rotation – Late window

Table 9.2.4- 231: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:3 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.215	0.000	0.000	0.010	0.038	0.024	0.016	0.006	0.003	0.002
	Hamburg	0.001	0.276	0.000	0.002	0.022	0.072	0.027	0.018	0.016	0.007	0.002
	Jokioinen	0.000	0.233	0.001	0.000	0.017	0.083	0.033	0.022	0.020	0.006	0.001
	Kremsmunster	0.000	0.218	0.000	0.001	0.012	0.042	0.019	0.013	0.008	0.004	0.001
	Okehampton	0.001	0.207	0.000	0.002	0.017	0.042	0.016	0.011	0.009	0.005	0.001
	Piacenza	0.001	0.171	0.000	0.001	0.011	0.030	0.018	0.012	0.006	0.004	0.001
	Porto	0.000	0.140	0.000	0.001	0.008	0.021	0.010	0.006	0.004	0.003	0.001
	Seville	0.000	0.123	0.000	0.000	0.003	0.016	0.013	0.009	0.003	0.001	0.001
	Thiva	0.000	0.181	0.000	0.000	0.005	0.026	0.023	0.015	0.004	0.002	0.002

Table 9.2.4- 232: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:3 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.002	0.226	0.000	0.001	0.011	0.039	0.025	0.016	0.007	0.004	0.002
	Hamburg	0.008	0.286	0.001	0.005	0.025	0.073	0.027	0.018	0.017	0.008	0.002
	Jokioinen	0.001	0.241	0.001	0.001	0.018	0.083	0.032	0.022	0.020	0.007	0.001
	Kremsmunster	0.005	0.225	0.000	0.003	0.013	0.043	0.019	0.013	0.008	0.004	0.001
	Okehampton	0.009	0.211	0.001	0.005	0.018	0.042	0.016	0.011	0.009	0.006	0.001
	Piacenza	0.006	0.179	0.001	0.003	0.012	0.031	0.018	0.012	0.006	0.004	0.001
	Porto	0.002	0.146	0.001	0.002	0.009	0.022	0.010	0.007	0.005	0.003	0.001
	Seville	0.000	0.127	0.000	0.000	0.003	0.017	0.013	0.009	0.003	0.001	0.001
	Thiva	0.000	0.190	0.000	0.000	0.006	0.026	0.023	0.015	0.004	0.002	0.002

Table 9.2.4- 233: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:3 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.207	0.000	0.009	0.003	0.024	0.016	0.006	0.037	0.002
	Hamburg	0.001	0.266	0.000	0.021	0.007	0.027	0.018	0.016	0.072	0.002
	Jokioinen	0.000	0.225	0.000	0.016	0.006	0.033	0.022	0.020	0.081	0.001
	Kremsmunster	0.000	0.210	0.000	0.011	0.004	0.019	0.013	0.008	0.041	0.001
	Okehampton	0.001	0.200	0.000	0.016	0.005	0.016	0.011	0.009	0.042	0.001
	Piacenza	0.001	0.164	0.000	0.011	0.004	0.017	0.012	0.006	0.030	0.001
	Porto	0.000	0.134	0.000	0.007	0.002	0.009	0.006	0.004	0.020	0.001
	Seville	0.000	0.116	0.000	0.002	0.001	0.013	0.008	0.002	0.015	0.001
	Thiva	0.000	0.173	0.000	0.005	0.002	0.022	0.015	0.003	0.025	0.002

Table 9.2.4- 234: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:3 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.002	0.216	0.000	0.010	0.039	0.024	0.016	0.007	0.003	0.002
	Hamburg	0.008	0.275	0.001	0.023	0.072	0.027	0.018	0.017	0.008	0.002
	Jokioinen	0.001	0.232	0.001	0.017	0.082	0.032	0.022	0.020	0.006	0.001
	Kremsmunster	0.005	0.218	0.000	0.012	0.042	0.019	0.013	0.008	0.004	0.001
	Okehampton	0.009	0.205	0.001	0.017	0.042	0.016	0.011	0.009	0.005	0.001
	Piacenza	0.006	0.171	0.000	0.012	0.031	0.017	0.012	0.006	0.004	0.001
	Porto	0.002	0.141	0.000	0.008	0.021	0.010	0.006	0.004	0.003	0.001
	Seville	0.000	0.120	0.000	0.003	0.016	0.013	0.008	0.002	0.001	0.001
	Thiva	0.000	0.182	0.000	0.006	0.026	0.022	0.015	0.004	0.002	0.002

Table 9.2.4- 235: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:3 year, late application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.266	0.000	0.000	0.007	0.031	0.019	0.013	0.001	0.003	0.001
	Hamburg	0.001	0.316	0.001	0.002	0.020	0.062	0.024	0.016	0.005	0.007	0.002
	Jokioinen	0.000	0.247	0.001	0.000	0.016	0.073	0.027	0.018	0.009	0.006	0.001
	Kremsmunster	0.000	0.255	0.000	0.001	0.012	0.041	0.019	0.012	0.002	0.004	0.001
	Okehampton	0.001	0.227	0.001	0.002	0.016	0.039	0.014	0.010	0.003	0.005	0.001
	Piacenza	0.001	0.211	0.001	0.001	0.011	0.030	0.014	0.010	0.002	0.004	0.001
	Porto	0.000	0.151	0.001	0.001	0.011	0.025	0.010	0.007	0.003	0.004	0.001
	Seville	0.000	0.157	0.000	0.000	0.004	0.018	0.012	0.008	0.001	0.001	0.001
	Thiva	0.000	0.247	0.000	0.000	0.004	0.022	0.017	0.011	0.001	0.002	0.001

Table 9.2.4- 236: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:3 year, late application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	0.267	0.000	0.001	0.008	0.031	0.019	0.012	0.001	0.003	0.001
	Hamburg	0.005	0.315	0.001	0.004	0.021	0.062	0.023	0.016	0.006	0.007	0.002
	Jokioinen	0.001	0.247	0.002	0.001	0.017	0.071	0.026	0.018	0.009	0.006	0.001
	Kremsmunster	0.004	0.253	0.001	0.002	0.013	0.041	0.018	0.012	0.003	0.004	0.001
	Okehampton	0.008	0.225	0.001	0.005	0.017	0.038	0.014	0.009	0.004	0.005	0.001
	Piacenza	0.006	0.211	0.001	0.003	0.012	0.029	0.014	0.009	0.002	0.004	0.001
	Porto	0.003	0.152	0.002	0.003	0.012	0.026	0.010	0.007	0.003	0.004	0.001
	Seville	0.000	0.156	0.000	0.000	0.004	0.018	0.012	0.008	0.001	0.001	0.001
	Thiva	0.000	0.238	0.000	0.000	0.005	0.022	0.016	0.011	0.001	0.002	0.001

Table 9.2.4- 237: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:3 year, late application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.000	0.259	0.000	0.006	0.029	0.019	0.013	0.001	0.002	0.001
	Hamburg	0.001	0.307	0.000	0.017	0.057	0.024	0.016	0.005	0.006	0.002
	Jokioinen	0.000	0.242	0.001	0.016	0.076	0.027	0.018	0.009	0.006	0.001
	Kremsmunster	0.000	0.249	0.000	0.011	0.039	0.019	0.012	0.002	0.004	0.001
	Okehampton	0.001	0.221	0.000	0.014	0.036	0.014	0.010	0.003	0.005	0.001
	Piacenza	0.001	0.205	0.000	0.010	0.025	0.014	0.010	0.002	0.003	0.001
	Porto	0.000	0.146	0.000	0.009	0.022	0.010	0.007	0.002	0.003	0.001
	Seville	0.000	0.154	0.000	0.003	0.015	0.012	0.008	0.001	0.001	0.001
	Thiva	0.000	0.244	0.000	0.003	0.017	0.017	0.011	0.001	0.001	0.001

Table 9.2.4- 238: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha 1:3 year, late application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Potatoes	Chateaudun	0.001	0.259	0.000	0.007	0.029	0.019	0.012	0.001	0.002	0.001
	Hamburg	0.005	0.307	0.001	0.019	0.056	0.023	0.016	0.005	0.006	0.002
	Jokioinen	0.001	0.242	0.001	0.016	0.074	0.026	0.018	0.008	0.006	0.001
	Kremsmunster	0.004	0.247	0.000	0.012	0.039	0.018	0.012	0.002	0.004	0.001
	Okehampton	0.008	0.221	0.001	0.015	0.036	0.014	0.009	0.004	0.005	0.001
	Piacenza	0.006	0.205	0.001	0.010	0.025	0.014	0.009	0.002	0.003	0.001
	Porto	0.003	0.147	0.001	0.010	0.022	0.010	0.007	0.002	0.003	0.001
	Seville	0.000	0.153	0.000	0.003	0.015	0.011	0.008	0.001	0.001	0.001
	Thiva	0.000	0.234	0.000	0.004	0.017	0.016	0.011	0.001	0.001	0.001

Table 9.2.4- 239: FOCUS MACRO, PECgw results of fluopicolide – 1 x 100 g/ha 1:3 year, late application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – MACRO Fluopicolide
Potatoes	Chateaudun	0.0002

III. Conclusion

The predicted environmental concentrations in groundwater (PEC_{gw}) of the active substance fluopicolide and its metabolites M-01, M-02, M-03, M-05, M-10, M-11/M-12, M-13, M-14, and M-15 were calculated for use in potatoes.

The overall maximum predicted PEC_{gw} value for fluopicolide was 0.500 µg/L in Okehampton scenario for 3 early applications of 100 g a.s./ha to potatoes every year without considering time dependent sorption parameters of fluopicolide. After refinement of the PEC_{gw} by considering aged sorption the predicted PEC_{gw} value for parent was 0.096 µg/L.

The metabolites M-02 and M-15 were predicted to reach groundwater at concentrations below 0.1 µg/L for all uses on potatoes. The metabolites M-01, M-03, M-05, M-10, M-11, M-12, M-13, M-14 were predicted to reach groundwater at concentrations in excess of 0.1 µg/L. The overall maximum concentrations were 6.980 µg/L for M-01, 0.163 µg/L for M-03, 0.548 µg/L for M-05, 1.737 µg/L for

M-10, 0.740 µg/L for M-11, 0.493 µg/L for M-12, 0.427 µg/L for M-13 and 0.175 µg/L for M-14. The non-relevance of these metabolites has been addressed in Document N4 using the assessment scheme described in the 'Guidance Document On The Assessment Of The Relevance Of Metabolites In Groundwater Of Substances Regulated Under Council Directive 91/414/EEC (Sanco/221/2000 – Revision 10 – Final; 25 February 2003).

<u>Assessment and conclusion by applicant:</u>

The risk assessment report was conducted according to FOCUS (2014) and is considered valid to assess predicted environmental concentrations in groundwater (PEC_{GW}) for fluopicolide and its metabolites in potatoes.

Data Point:	KCP 9.2.4.1/08
Report Author:	[redacted]
Report Year:	2020
Report Title:	Fluopicolide (FLC) and metabolites: PECgw FOCUS PEARL, PELMO and MACRO - Use as foliar application in lettuce in Europe
Report No:	VC/19/041O
Document No:	M-688511-01-1
Guideline(s) followed in study:	not applicable
Deviations from current test guideline:	Not applicable
Previous evaluation:	No, not previously submitted
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

Executive Summary

Predicted environmental concentrations of the active substance fluopicolide in groundwater recharge (PECgw) were calculated for the use in lettuce in Europe, using the simulation models FOCUS PEARL 4.4.4 (Leistra *et al.* 2001), FOCUS PELMO 5.5.3 (Jene 1998; Klein 1995, 1999, 2011), and FOCUS MACRO 5.5.4 (Jarvis 1994; Jarvis and Larsbo 2012). PECgw were evaluated as the 80[th] percentile of the mean annual leachate concentration at 1 m soil depth. Model parameters and scenarios consisting of weather, soil, and crop data were used as proposed by FOCUS (2014b).

I. Materials and Methods

Detailed application parameters are presented in Table 9.2.4- 240.

Table 9.2.4- 240: Application data of fluopicolide according to the use pattern in Europe

Individual crop	FOCUS crop	Rate g/ha	Interval (days)	Plant interception (%)	BBCH stage (-)	Amount reaching soil g/ha
Lettuce	Cabbage	1 x 100	-	25	13-49	75
Lettuce	Cabbage	2 x 100	7	70	41-49	30

The calculations were based on the maximum intended application rate together with the maximum intended number of applications per season and the minimum interval between applications (where applicable).

The application dates for this assessment were set with the help of the tool AppDate (Klein 2018), which proposes dates for specific crop stages (given as BBCH code) based on the crop development as defined in the FOCUS model scenarios for groundwater and surface water. For cabbages, a number of the scenarios have 2 crops per season - these were evaluated separately (Table 9.2.4- 241).

For cabbage, BBCH 13 is on average reached 19 days after crop emergence for the 1st crop and 13 days after emergence for the 2nd crop according to AppDate. Therefore, applications for the Early window were timed to start 19 or 13 days after emergence.

BBCH 49 is on average reached 4 days before harvest for the 1st crop and 5 days before harvest for the 2nd crop according to AppDate. Therefore, applications for the Late window were timed to end 4 or 5 days before harvest i.e. timed at 11 and 4 days before harvest for the 1st crop and 12 and 5 days before harvest for the 2nd crop.

Table 9.2.4- 241: Application timing and plant intercept data of fluopicolide

Individual crop	Window	Application timing	Rate g/ha	Interval (days)	Plant interception (%)	Amount reaching soil g/ha
Lettuce - early	1st crop	19 days after emergence	1 x 100	-	25	75
Lettuce - early	2nd crop	13 days after emergence	1 x 100	-	25	75
Lettuce - late	1st crop	4 days before harvest	1 x 100	-	70	30
Lettuce - late	2nd crop	5 days before harvest	1 x 100	-	70	30
Lettuce - late	1st crop	4 days before harvest	2 x 100	7	70/70	30/30
Lettuce - late	2nd crop	5 days before harvest	2 x 100	7	70/70	30/30

Input parameters for PEC groundwater modelling are fully evaluated and derived in the Core Modelling Information document (KCP 9.2.4/06) and are summarised in Table 9.2.4- 242 and Table 9.2.4- 243.

Table 9.2.4- 242: Input parameters related to active substance fluopicolide and metabolites for PEC_{gw} calculations – with aged-sorption

Parameter	Unit	Fluopicolide	M-01 (AE C653711)	M-02 (AE C657188)	M-03* (AE 0608000)	M-05 (AE 1344122)
Molar mass	(g/mol)	383.59	190.03	225.56	399.58	253.2
Solubility	(mg/L)	2.8	2220	115000	10	120000
at temp.	(°C)	20	20	20	20	20
Vapour pressure	(Pa)	0 (default)	0 (default)	0 (default)	0 (default)	0 (default)
at temp.	(°C)	20	20	20	20	20
Freundlich exponent	(-)	0.888	0.914	0.889	0.971	0.942
Plant uptake factor	(-)	0.5	0.5	0	0	0
Walker exponent	(-)	0.7	0.7	0.7	0.7	0.7
PEARL parameters						
Substance code	(-)	FLC	M01	M02	M03	M05
DT50	(days)	121.0	146.0	1.6	17.9	25.2
Molar activ. energy	(kJ/mol)	65.4	65.4	65.4	65.4	65.4
Kom	(mL/g)	155.3	14.0	3.3	62.0	8.1
k_{des}	(1/day)	0.0356	0	0	0	0
F_{ne}	(-)	0.508	0	0	0	0
PELMO parameters						
Substance code	(-)	Fluopicolide	M-01	M-02	M-03	M-05
Rate constant	(1/day)	0.005728	0.004748	0.433217	0.038723	0.027506
Q10	(-)	2.58	2.58	2.58	2.58	2.58
Koc	(mL/g)	267.7	24.1	5.7	106.9	14.0
MACRO parameters						
Substance code	(-)	Fluopicolide	-	-	-	-
Exponent moisture	(-)	0.49	0.49	0.49	0.49	0.49
Exponent temp	(1/K)	0.0948	0.0948	0.0948	0.0948	0.0948
Parameter	**Unit**	**M-10 (AE 1344123)**	**M-11/12 (AE 1344119/ AE 1344120)**	**M-13 (Fluopicolide-P3)**	**M-14 (AE 1388273)**	**M-15 (AE 1413903)**
Molar mass	(g/mol)	271.17	287.17	241.55	241.19	463.64
Solubility	(mg/L)	100000	1000	1000	15800	160000
at temp.	(°C)	20	20	20	20	20
Vapour pressure	(Pa)	0 (default)	0 (default)	0 (default)	0 (default)	0 (default)
at temp.	(°C)	20	20	20	20	20
Freundlich exponent	(-)	1.0	1.0	1.0	0.942	0.937
Plant uptake factor	(-)	0	0	0	0	0
Walker exponent	(-)	0.7	0.7	0.7	0.7	0.7
PEARL parameters						
Substance code	(-)	M10	M11-2	M13	M14	M15
DT50	(days)	35.4	87.6	20.7	9.4	145.0
Molar activ. energy	(kJ/mol)	65.4	65.4	65.4	65.4	65.4
Kom	(mL/g)	1.1	0	0	5.7	10.9
k_{des}	(1/day)	0	0	0	0	0
F_{ne}	(-)	0	0	0	0	0
PELMO parameters						
Substance code	(-)	M-10	M-11/12	M-13	M-14	M-15
Rate constant	(1/day)	0.019580	0.007913	0.033485	0.073739	0.004780
Q10	(-)	2.58	2.58	2.58	2.58	2.58
Koc	(mL/g)	1.8	0	0	9.9	18.8
MACRO parameters						
Substance code	(-)	-	-	-	-	-
Exponent moisture	(-)	0.49	0.49	0.49	0.49	0.49
Exponent temp	(1/K)	0.0948	0.0948	0.0948	0.0948	0.0948

* Metabolite M-03 not simulated in alkaline soils

Table 9.2.4- 243: Input parameters related to active substance fluopicolide and metabolites for PECgw calculations – without aged-sorption

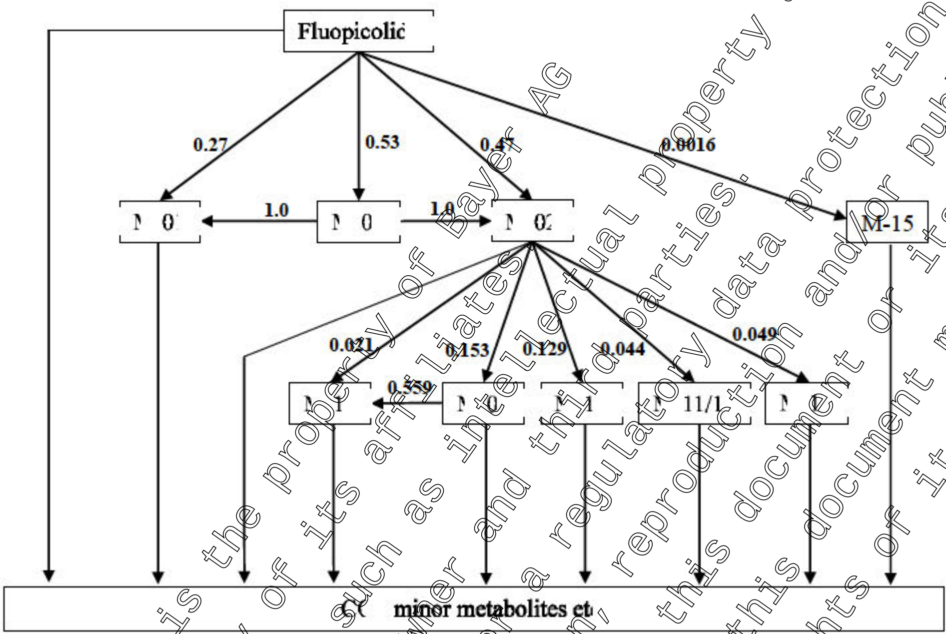
Parameter	Unit	Fluopicolide	M-01 (AE C653711)	M-02 (AE C657188)	M-03* (AE 0608000)	M-05 (AE 1344122)
Molar mass	(g/mol)	383.59	190.03	225.56	399.58	253.2
Solubility	(mg/L)	2.8	2220	115000	10	120000
at temp.	(°C)	20	20	20	20	20
Vapour pressure	(Pa)	0 (default)	0 (default)	0 (default)	0 (default)	0 (default)
at temp.	(°C)	20	20	20	20	20
Freundlich exponent	(-)	0.888	0.914	0.889	0.971	0.942
Plant uptake factor	(-)	0.5	0.5	0	0	0
Walker exponent	(-)	0.7	0.7	0.7	0.7	0.7
PEARL parameters						
Substance code	(-)	FLC	M01	M02	M03	M05
DT50	(days)	182.0	146.0	1.6	17.9	25.2
Molar activ. energy	(kJ/mol)	65.4	65.4	65.4	65.4	65.4
Kom	(mL/g)	155.3	14.0	3.3	62.0	8.1
PELMO parameters						
Substance code	(-)	Fluopicolide	M-01	M-02	M-03	M-05
Rate constant	(1/day)	0.003809	0.004748	0.433217	0.038723	0.027506
Q10	(-)	2.58	2.58	2.58	2.58	2.58
Koc	(mL/g)	267.7	24.4	5.7	106.9	14.0
MACRO parameters						
Substance code	(-)	Fluopicolide	-	-	-	-
Exponent moisture	(-)	0.49	0.49	0.49	0.49	0.49
Exponent temperature	(1/K)	0.0948	0.0948	0.0948	0.0948	0.0948

Parameter	Unit	M-10 (AE 1344123)	M-11/12 (AE 1344119/ AE 1344120)	M-13 (Fluopicolide-P3)	M-14 (AE 1388273)	M-15 (AE 1413903)
Molar mass	(g/mol)	271.17	287.17	241.55	241.19	463.64
Solubility	(mg/L)	100000	1000	1000	15800	160000
at temp.	(°C)	20	20	20	20	20
Vapour pressure	(Pa)	0 (default)	0 (default)	0 (default)	0 (default)	0 (default)
at temp.	(°C)	20	20	20	20	20
Freundlich exponent	(-)	1.0	1.0	1.0	0.942	0.937
Plant uptake factor	(-)	0	0	0	0	0
Walker exponent	(-)	0.7	0.7	0.7	0.7	0.7
PEARL parameters						
Substance code	(-)	M10	M11-2	M13	M14	M15
DT50	(days)	35.4	87.6	20.7	9.4	145.0
Molar activ. energy	(kJ/mol)	65.4	65.4	65.4	65.4	65.4
Kom	(mL/g)	1.1	0	0	5.7	10.9
PELMO parameters						
Substance code	(-)	M-10	M-11/12	M-13	M-14	M-15
Rate constant	(1/day)	0.019580	0.007913	0.033485	0.073739	0.004780
Q10	(-)	2.58	2.58	2.58	2.58	2.58
Koc	(mL/g)	1.8	0	0	9.9	18.8
MACRO parameters						
Substance code	(-)	-	-	-	-	-
Exponent moisture	(-)	0.49	0.49	0.49	0.49	0.49
Exponent temperature	(1/K)	0.0948	0.0948	0.0948	0.0948	0.0948

* Metabolite M-03 not simulated in alkaline soils

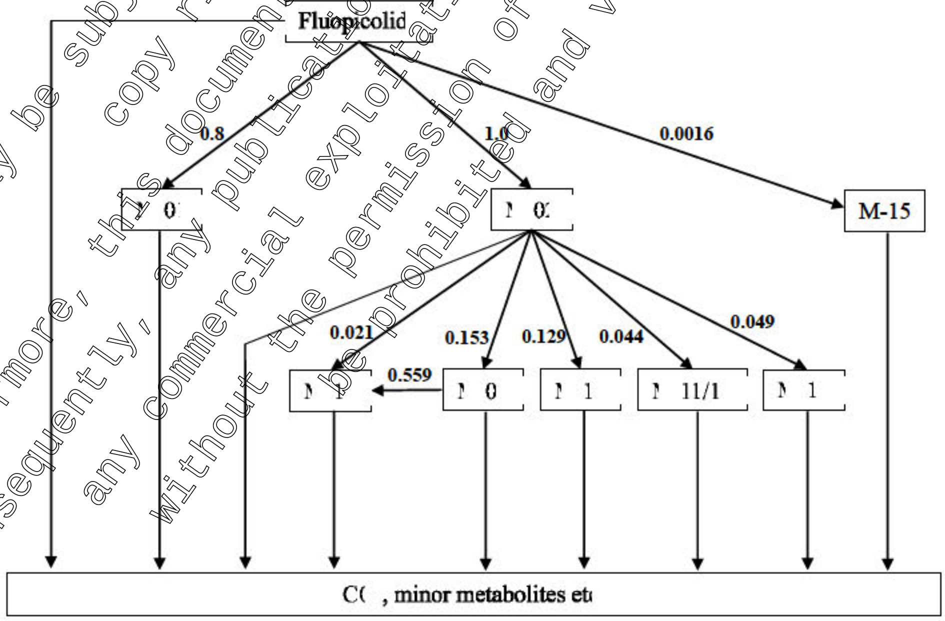
In acidic soils, the principle breakdown of fluopicolide in soil proceeds via formation of the M-03 metabolite, which splits to form the M-01 and M-02 metabolites, with M-01 and M-02 additionally being formed direct from fluopicolide [Figure 9.2.4- 7].

Figure 9.2.4- 7: Degradation pathway for fluopicolide in acidic soils



In alkaline soils, degradation of M-03 is very rapid (DT_{50} < 1day) and no kinetic formation information can be derived. Therefore, simulations for alkaline soil conditions are made assuming only direct formation of M-01 and M-02 from fluopicolide [Figure 9.2.4- 8].

Figure 9.2.4- 8: Degradation pathway for fluopicolide in alkaline soils



These two pathways can be fully parameterised directly in FOCUS PEAR 4.4.4. However, due to the pathway limitations in FOCUS PELMO 5.5.3, three separate evaluations are required for each. Aged-sorption is significant for fluopicolide, and thus two sets of evaluations are conducted – with/without the use of aged-sorption. Thus, for PEARL four sets of model evaluations are conducted per GAP, whereas twelve sets of model evaluations are required for PELMO.

Table 9.2.4- 244: Degradation pathway related parameters for fluopicolide and its metabolites

Degradation fraction from → to (-) (FOCUS PEARL): **acidic soils**	FLC → M01: 0.27 FLC → M02: 0.47 FLC → M03: 0.53 FLC → M15: 0.0016 M03 → M01: 1.0 M03 → M02: 1.0 M02 → M05: 0.153 M02 → M10: 0.129 M02 → M11-2: 0.044 M02 → M13: 0.049 M02 → M14: 0.021 M05 → M14: 0.559
Degradation fraction from → to (-) (FOCUS PEARL): **alkaline soils**	FLC → M01: 0.8 FLC → M02: 1.0 FLC → M15: 0.0016 M02 → M05: 0.153 M02 → M10: 0.129 M02 → M11-2: 0.044 M02 → M13: 0.049 M02 → M14: 0.021 M05 → M14: 0.559
Partial DT_{50}/Degradation rate from → to (day or 1/day) (FOCUS PELMO)[a]: **acidic soils**	Pathway 1: Active Substance → M-02: 387.234 / 0.0017900 Active Substance → M-03: 343.396 / 0.0020190 Active Substance (TDS) → M-02: 257.447 / 0.0026920 Active Substance (TDS) → M-03: 228.302 / 0.0030360 Active Substance → BR/CO2: 0 M-03 → M-02: 17.9 / 0.0387230 M-02 → M-05: 10.458 / 0.0662790 M-02 → M-10: 12.403 / 0.0558850 M-02 → M-14: 76.190 / 0.0090980 M-02 → BR/CO2: 2.296 / 0.3018930 M-05 → M-14: 45.081 / 0.0153760 M-05 → BR/CO2: 57.143 / 0.0121300 M-10 → BR/CO2: 35.4 / 0.0195800 M-14 → BR/CO2: 9.4 / 0.0737390 Pathway 2: Active Substance → M-02: 387.234 / 0.0017900 Active Substance → M-03: 343.396 / 0.0020190 Active Substance (TDS) → M-02: 257.447 / 0.0026920 Active Substance (TDS) → M-03: 228.302 / 0.0030360 Active Substance → BR/CO2: 0 M-03 → M-02: 17.9 / 0.0387230 M-02 → M-11/12: 36.364 / 0.0190610 M-02 → M-13: 32.653 / 0.0212280 M-02 → BR/CO2: 1.764 / 0.3929410 M-11/12 → BR/CO2: 87.6 / 0.0079130 M-13 → BR/CO2: 20.7 / 0.0737390

	Pathway 3: Active Substance → M-01: 674.074 / 0.0010280 Active Substance → M-03: 343.396 / 0.0020190 Active Substance → M-15: 113750 / 6.09E-06 Active Substance → BR/CO2: 917.339 / 0.000756 Active Substance (TDS) → M-01: 448.148 / 0.0015470 Active Substance (TDS) → M-03: 228.302 / 0.0030360 Active Substance (TDS) → M-15: 75625 / 9.17E-06 Active Substance (TDS) → BR/CO2: 609.879 / 0.0011370 M-03 → M-01: 17.9 / 0.0387230 M-01 → BR/CO2: 146 / 0.0047480 M-15 → BR/CO2: 145 / 0.0047800
Partial DT_{50}/Degradation rate from → to (day or 1/day) (FOCUS PELMO)[a]: **alkaline soils**	Pathway 1: Active Substance → M-02: 182 / 0.0038090 Active Substance (TDS) → M-02: 121 / 0.0057280 Active Substance → BR/CO2: 0 M-02 → M-05: 10.458 / 0.0662790 M-02 → M-10: 12.403 / 0.0558850 M-02 → M-14: 76.190 / 0.0090980 M-02 → BR/CO2: 2.296 / 0.3018930 M-05 → M-14: 45.081 / 0.0153760 M-05 → BR/CO2: 57.143 / 0.0121300 M-10 → BR/CO2: 35.4 / 0.0195800 M-14 → BR/CO2: 9.4 / 0.0737390 Pathway 2: Active Substance → M-02: 182 / 0.0038090 Active Substance (TDS) → M-02: 121 / 0.0057280 Active Substance → BR/CO2: 0 M-02 → M-11/12: 36.364 / 0.0190610 M-02 → M-13: 32.653 / 0.0212280 M-02 → BR/CO2: 1.764 / 0.3929410 M-11/12 → BR/CO2: 87.6 / 0.0079130 M-13 → BR/CO2: 20.7 / 0.0737390 Pathway 3: Active Substance → M-01: 227.500 / 0.0030470 Active Substance → M-15: 113750 / 6.09E-06 Active Substance → BR/CO2: 917.339 / 0.000756 Active Substance (TDS) → M-01: 151.250 / 0.0045830 Active Substance (TDS) → M-15: 75625 / 9.17E-06 Active Substance (TDS) → BR/CO2: 609.879 / 0.0011370 M-01 → BR/CO2: 146 / 0.0047480 M-15 → BR/CO2: 145 / 0.0047800
Conversion factor from → to (-) (FOCUS MACRO)[b]: **acidic soils**	-
Conversion factor from → to (-) (FOCUS MACRO)[b]: **alkaline soils**	-

[a] Calculated as *ln(2) / DT50 × formation fraction*
[b] Calculated as *molar mass / molar mass predecessor × formation fraction*

Plant uptake parameters, in different leaching models, define the ability of plant roots to transport a solute into the plant, in comparison to the water uptake (that is, the ratio between pesticide mass uptake flux and water volume uptake flux, normalised to the aqueous concentration of the pesticide outside the root). For fluopicolide and M-01 the plant uptake factor was set to the value of 0.5; for all the other metabolites the plant uptake factors were set at 0.

M-11/12 is a mixture of two isomers M-11 and M-12 in the ratio M-11:M-12 ≈ 60:40. PECgw calculations are conducted for M-11/12 and the results then split in the ratio 60:40 to derive PECgw values for M-11 and M-12. Groundwater simulations using MACRO 5.5.4 was carried out for fluopicolide only.

Following the proposal of the FOCUS working group on groundwater scenarios (FOCUS 2014b), the concentrations in the percolate at 1 m depth were evaluated. This shallow depth reflects a worst case with respect to the assessment of a potential groundwater contamination. The effective long-term groundwater concentrations will be even lower due to dilution in the upper groundwater layer.

II. Results and Discussion

Overview of the PECgw values obtained with individual FOCUS models is given in Table 9.2.4- 245 to Table 9.2.4- 248 (PEARL), Table 9.2.4- 249 to Table 9.2.4- 252 (PELMO).

Table 9.2.4- 245: Maximum FOCUS PEARL PECgw results of fluopicolide and its metabolites in µg/L for the uses assessed – acidic soils, with aged-sorption

Use pattern	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
	FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Lettuce Early 1x 1st Crop	0.056	4.667	0.015	0.055	0.385	1.578	0.641	0.427	0.388	0.127	0.032
Lettuce Early 1x 2nd Crop	0.064	4.727	0.017	0.062	0.403	1.269	0.498	0.332	0.281	0.131	0.032
Lettuce Late 1x 1st Crop	0.013	1.801	0.005	0.017	0.149	0.622	0.258	0.172	0.152	0.049	0.012
Lettuce Late 1x 2nd Crop	0.014	1.805	0.005	0.019	0.146	0.486	0.197	0.131	0.105	0.048	0.012
Lettuce Late 2x 1st Crop	0.041	3.716	0.012	0.043	0.311	1.250	0.516	0.344	0.307	0.102	0.025
Lettuce Late 2x 2nd Crop	0.046	3.754	0.013	0.047	0.308	0.979	0.394	0.263	0.212	0.101	0.025

Table 9.2.4- 246: Maximum FOCUS PEARL PECgw results of fluopicolide and its metabolites in µg/L for the uses assessed – acidic soils, without aged-sorption

Use pattern	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
	FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Lettuce Early 1x 1st Crop	0.367	4.773	0.028	0.121	0.413	1.604	0.638	0.426	0.397	0.134	0.032
Lettuce Early 1x 2nd Crop	0.411	4.850	0.031	0.134	0.434	1.269	0.490	0.327	0.284	0.138	0.032
Lettuce Late 1x 1st Crop	0.104	1.845	0.010	0.041	0.161	0.632	0.257	0.172	0.156	0.052	0.013
Lettuce Late 1x 2nd Crop	0.117	1.864	0.010	0.044	0.159	0.489	0.195	0.130	0.107	0.051	0.012
Lettuce Late 2x 1st Crop	0.282	3.815	0.023	0.097	0.337	1.272	0.515	0.343	0.314	0.108	0.026
Lettuce Late 2x 2nd Crop	0.313	3.851	0.024	0.105	0.335	0.982	0.389	0.259	0.215	0.107	0.026

Table 9.2.4- 247: Maximum FOCUS PEARL PECgw results of fluopicolide and its metabolites in µg/L for the uses assessed – alkaline soils, with aged-sorption

Use pattern	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
	FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Lettuce Early 1x 1st Crop	0.056	4.488	0.008	0.355	1.558	0.640	0.427	0.381	0.120	0.032
Lettuce Early 1x 2nd Crop	0.064	4.575	0.009	0.379	1.267	0.498	0.332	0.281	0.126	0.032
Lettuce Late 1x 1st Crop	0.013	1.746	0.002	0.139	0.615	0.257	0.171	0.151	0.047	0.012
Lettuce Late 1x 2nd Crop	0.014	1.734	0.003	0.136	0.479	0.195	0.130	0.103	0.046	0.012
Lettuce Late 2x 1st Crop	0.041	3.591	0.006	0.290	1.238	0.513	0.342	0.304	0.097	0.025
Lettuce Late 2x 2nd Crop	0.046	3.615	0.007	0.290	0.966	0.391	0.261	0.209	0.096	0.025

Table 9.2.4- 248: Maximum FOCUS PEARL PECgw results of fluopicolide and its metabolites in µg/L for the uses assessed – alkaline soils, without aged-sorption

Use pattern	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
	FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Lettuce Early 1x 1st Crop	0.367	4.613	0.019	0.387	1.585	0.638	0.425	0.391	0.127	0.032
Lettuce Early 1x 2nd Crop	0.411	4.711	0.022	0.416	1.269	0.490	0.327	0.285	0.133	0.032
Lettuce Late 1x 1st Crop	0.104	1.787	0.006	0.152	0.624	0.256	0.171	0.153	0.050	0.013
Lettuce Late 1x 2nd Crop	0.117	1.801	0.007	0.150	0.482	0.194	0.129	0.105	0.049	0.012
Lettuce Late 2x 1st Crop	0.282	3.701	0.016	0.318	1.257	0.512	0.342	0.310	0.104	0.026
Lettuce Late 2x 2nd Crop	0.313	3.734	0.017	0.318	0.969	0.386	0.258	0.212	0.102	0.026

Table 9.2.4- 249: Maximum FOCUS PELMO PECgw results of fluopicolide and its metabolites in µg/L for the uses assessed – acidic soils, with aged-sorption

Use pattern	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
	FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Lettuce Early 1x 1st Crop	0.030	5.791	0.027	0.047	0.364	1.364	0.569	0.380	0.335	0.117	0.027
Lettuce Early 1x 2nd Crop	0.038	5.895	0.034	0.057	0.393	1.029	0.404	0.270	0.220	0.124	0.028
Lettuce Late 1x 1st Crop	0.007	2.254	0.010	0.015	0.142	0.545	0.227	0.152	0.132	0.046	0.011
Lettuce Late 1x 2nd Crop	0.009	2.242	0.011	0.018	0.140	0.398	0.158	0.106	0.083	0.045	0.011
Lettuce Late 2x 1st Crop	0.022	4.635	0.022	0.037	0.297	1.092	0.454	0.302	0.264	0.095	0.022
Lettuce Late 2x 2nd Crop	0.028	4.625	0.026	0.044	0.299	0.800	0.316	0.211	0.168	0.094	0.022

Table 9.2.4- 250: Maximum FOCUS PELMO PECgw results of fluopicolide and its metabolites in µg/L for the uses assessed – acidic soils, without aged-sorption

Use pattern	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
	FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Lettuce Early 1x 1st Crop	0.268	5.657	0.041	0.101	0.382	1.364	0.557	0.371	0.331	0.120	0.027
Lettuce Early 1x 2nd Crop	0.312	5.792	0.051	0.116	0.416	1.031	0.393	0.262	0.222	0.127	0.028
Lettuce Late 1x 1st Crop	0.074	2.219	0.015	0.034	0.152	0.544	0.223	0.148	0.130	0.047	0.011
Lettuce Late 1x 2nd Crop	0.083	2.212	0.017	0.038	0.151	0.395	0.153	0.102	0.084	0.047	0.011
Lettuce Late 2x 1st Crop	0.204	4.534	0.034	0.080	0.315	1.093	0.443	0.296	0.260	0.098	0.022
Lettuce Late 2x 2nd Crop	0.233	4.538	0.039	0.091	0.316	0.794	0.305	0.203	0.170	0.097	0.022

Table 9.2.4- 251: Maximum FOCUS PELMO PECgw results of fluopicolide and its metabolites in µg/L for the uses assessed – alkaline soils, with aged-sorption

Use pattern	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
	FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Lettuce Early 1x 1st Crop	0.030	5.641	0.020	0.333	1.346	0.568	0.378	0.329	0.110	0.027
Lettuce Early 1x 2nd Crop	0.038	5.780	0.018	0.368	1.013	0.403	0.269	0.217	0.120	0.028
Lettuce Late 1x 1st Crop	0.007	2.201	0.007	0.131	0.545	0.226	0.150	0.132	0.044	0.011
Lettuce Late 1x 2nd Crop	0.009	2.188	0.006	0.131	0.389	0.157	0.104	0.081	0.043	0.011
Lettuce Late 2x 1st Crop	0.022	4.529	0.018	0.276	1.088	0.450	0.300	0.264	0.090	0.022
Lettuce Late 2x 2nd Crop	0.028	4.524	0.016	0.280	0.781	0.314	0.209	0.165	0.090	0.022

Table 9.2.4- 252: Maximum FOCUS PELMO PECgw results of fluopicolide and its metabolites in µg/L for the uses assessed – alkaline soils, without aged-sorption

Use pattern	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
	FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
Lettuce Early 1x 1st Crop	0.268	5.536	0.030	0.353	1.345	0.556	0.370	0.326	0.113	0.027
Lettuce Early 1x 2nd Crop	0.312	5.705	0.038	0.395	1.019	0.392	0.262	0.220	0.123	0.028
Lettuce Late 1x 1st Crop	0.074	2.175	0.010	0.142	0.538	0.221	0.148	0.129	0.045	0.011
Lettuce Late 1x 2nd Crop	0.083	2.165	0.012	0.143	0.389	0.152	0.102	0.082	0.045	0.011
Lettuce Late 2x 1st Crop	0.204	4.453	0.024	0.295	1.081	0.440	0.294	0.259	0.093	0.022
Lettuce Late 2x 2nd Crop	0.233	4.455	0.030	0.300	0.783	0.304	0.203	0.166	0.093	0.022

Detailed results for all scenarios for FOCUS PEARL, FOCUS PELMO and FOCUS MACRO are listed in the following subsections Table 9.2.4- 253 to Table 9.2.4- 279.

Lettuce Early 1 x 100 g/ha BBCH 13-49

Annual application, 1st Crop & 2nd Crop

Table 9.2.4- 253: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha annual application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.056	4.667	0.015	0.055	0.385	1.240	0.494	0.330	0.269	0.127	0.032
	Hamburg	<0.001	4.058	0.012	0.009	0.360	1.578	0.641	0.427	0.388	0.123	0.025
	Jokioinen	0.031	3.503	0.005	0.027	0.215	0.584	0.277	0.185	0.112	0.069	0.021
	Kremsmünster	0.019	2.076	0.012	0.031	0.151	0.349	0.164	0.110	0.069	0.047	0.013
	Porto	<0.001	2.015	0.001	0.001	0.060	0.266	0.212	0.142	0.041	0.021	0.017
	Sevilla	0.002	2.785	0.001	0.005	0.103	0.325	0.213	0.142	0.056	0.033	0.018
	Thiva	0.056	4.667	0.015	0.055	0.385	1.240	0.494	0.330	0.269	0.127	0.032
2nd Crop	Châteaudun	0.009	3.861	0.002	0.011	0.197	0.576	0.341	0.227	0.106	0.066	0.025
	Hamburg	0.064	4.727	0.017	0.062	0.403	1.269	0.498	0.332	0.281	0.131	0.032
	Kremsmünster	0.034	3.588	0.005	0.029	0.223	0.608	0.279	0.186	0.119	0.072	0.022
	Porto	0.025	2.209	0.016	0.040	0.186	0.401	0.176	0.117	0.085	0.057	0.014
	Sevilla	<0.001	2.254	0.001	0.001	0.073	0.318	0.230	0.153	0.051	0.026	0.017

Table 9.2.4- 254: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha annual application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.141	3.937	0.009	0.045	0.216	0.572	0.344	0.230	0.103	0.070	0.026
	Hamburg	0.367	4.773	0.028	0.121	0.413	1.249	0.488	0.325	0.275	0.134	0.032
	Jokioinen	0.030	4.133	0.026	0.029	0.387	1.604	0.638	0.426	0.397	0.125	0.026
	Kremsmünster	0.249	3.542	0.014	0.075	0.236	0.594	0.274	0.183	0.116	0.074	0.021
	Porto	0.155	2.155	0.024	0.069	0.165	0.363	0.165	0.110	0.072	0.050	0.013
	Sevilla	0.003	2.060	0.001	0.003	0.067	0.271	0.209	0.139	0.042	0.023	0.016
	Thiva	0.062	2.912	0.004	0.023	0.117	0.334	0.215	0.143	0.059	0.037	0.018
2nd Crop	Châteaudun	0.163	3.982	0.010	0.051	0.229	0.596	0.346	0.230	0.111	0.074	0.026
	Hamburg	0.411	4.850	0.031	0.134	0.434	1.269	0.490	0.327	0.284	0.138	0.032
	Kremsmünster	0.273	3.633	0.015	0.082	0.243	0.616	0.276	0.184	0.122	0.076	0.022
	Porto	0.206	2.308	0.031	0.086	0.201	0.416	0.177	0.118	0.089	0.059	0.014
	Sevilla	0.003	2.312	0.001	0.003	0.082	0.325	0.227	0.151	0.054	0.028	0.017

Table 9.2.4- 255: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha annual application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.008	3.676	0.001	0.163	0.525	0.334	0.223	0.090	0.056	0.025
	Hamburg	0.056	4.488	0.008	0.355	1.206	0.490	0.326	0.258	0.120	0.032
	Jokioinen	0.000	3.983	0.008	0.340	1.558	0.640	0.427	0.381	0.119	0.025
	Kremsmünster	0.031	3.392	0.002	0.197	0.566	0.275	0.184	0.106	0.065	0.021
	Porto	0.019	1.960	0.006	0.135	0.330	0.161	0.107	0.063	0.042	0.013
	Sevilla	0.000	1.867	0.000	0.054	0.250	0.206	0.138	0.038	0.019	0.017
	Thiva	0.002	2.719	0.000	0.100	0.324	0.215	0.143	0.055	0.033	0.018
2nd Crop	Châteaudun	0.009	3.733	0.001	0.180	0.561	0.338	0.225	0.102	0.061	0.025
	Hamburg	0.064	4.575	0.009	0.379	1.267	0.498	0.332	0.281	0.126	0.032
	Kremsmünster	0.034	3.472	0.003	0.207	0.599	0.277	0.185	0.118	0.068	0.022
	Porto	0.025	2.123	0.007	0.173	0.396	0.173	0.116	0.084	0.055	0.014
	Sevilla	0.000	2.131	0.000	0.067	0.305	0.227	0.151	0.048	0.024	0.017

Table 9.2.4- 256: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha annual application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.141	3.802	0.007	0.194	0.550	0.339	0.226	0.097	0.064	0.026
	Hamburg	0.367	4.613	0.019	0.387	1.220	0.484	0.323	0.265	0.127	0.032
	Jokioinen	0.030	4.064	0.019	0.367	1.585	0.638	0.426	0.391	0.122	0.026
	Kremsmünster	0.249	3.441	0.010	0.220	0.576	0.273	0.182	0.111	0.069	0.021
	Porto	0.155	2.046	0.017	0.150	0.345	0.162	0.108	0.067	0.046	0.013
	Sevilla	0.003	1.911	0.001	0.060	0.255	0.202	0.135	0.039	0.021	0.016
	Thiva	0.062	2.832	0.003	0.112	0.333	0.216	0.144	0.058	0.036	0.018
2nd Crop	Châteaudun	0.163	3.874	0.008	0.210	0.581	0.342	0.228	0.108	0.069	0.026
	Hamburg	0.411	4.711	0.021	0.416	1.269	0.490	0.327	0.285	0.133	0.032
	Kremsmünster	0.273	3.531	0.011	0.230	0.607	0.275	0.183	0.120	0.073	0.022
	Porto	0.206	2.229	0.022	0.190	0.409	0.175	0.117	0.087	0.058	0.014
	Sevilla	0.003	2.197	0.001	0.075	0.313	0.224	0.149	0.051	0.026	0.017

Table 9.2.4- 257: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha annual application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.004	4.734	0.001	0.006	0.146	0.471	0.283	0.189	0.078	0.049	0.022
	Hamburg	0.030	5.791	0.025	0.041	0.364	0.984	0.395	0.263	0.207	0 117	0.027
	Jokioinen	0.000	4.602	0.026	0.007	0.349	1.364	0.569	0.380	0.335	0 115	0.022
	Kremsmünster	0.020	4.408	0.006	0.023	0.218	0.612	0.275	0.184	0.117	0.071	0.021
	Porto	0.029	2.393	0.027	0.047	0.162	0.330	0.137	0.091	0.068	0.048	0.011
	Sevilla	<0.001	2.959	0.001	0.001	0.049	0.206	0.173	0.115	0.031	0.017	0.014
	Thiva	0.002	3.368	0.002	0.004	0.109	0.312	0.199	0.132	0.054	0.035	0.016
2nd Crop	Châteaudun	0.004	4.700	0.002	0.007	0.159	0.488	0 284	0.190	0.086	0.053	0.022
	Hamburg	0.036	5.895	0.028	0.048	0.393	1.029	0.404	0.270	0.220	0 124	0.028
	Kremsmünster	0.023	4.446	0.006	0.025	0.225	0.641	0 280	0.187	0.123	0.072	0.021
	Porto	0.038	2.507	0.034	0.057	0.196	0.382	0 149	0.099	0.087	0.059	0.012
	Sevilla	<0.001	3.095	0.001	0.000	0.057	0.245	0 183	0.122	0.038	0.020	0.015

Table 9.2.4- 258: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha annual application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.085	4.670	0.006	0.028	0.163	0.473	0.280	0.186	0.082	0.053	0.022
	Hamburg	0.268	5.657	0.041	0.101	0.382	0.980	0.380	0.253	0.209	0.120	0.027
	Jokioinen	0.022	4.551	0.036	0.024	0.360	1.364	0.557	0.371	0.331	0.117	0.022
	Kremsmünster	0.200	4.359	0.015	0.061	0.235	0.611	0.266	0.177	0.118	0.073	0.021
	Porto	0.203	2.364	0.041	0.088	0.166	0.335	0.134	0.089	0.071	0.049	0.011
	Sevilla	0.001	2.831	0.001	0.001	0.052	0.205	0.166	0.111	0.032	0.018	0.013
	Thiva	0.042	3.349	0.005	0.018	0.112	0.311	0.194	0.129	0.056	0.036	0.016
2nd Crop	Châteaudun	0.100	4.628	0.006	0.032	0.177	0.494	0.280	0.186	0.089	0.057	0.022
	Hamburg	0.312	5.792	0.047	0.116	0.416	1.031	0.393	0.262	0.222	0.127	0.028
	Kremsmünster	0.223	4.404	0.016	0.067	0.241	0.637	0.271	0.181	0.125	0.075	0.021
	Porto	0.260	2.518	0.051	0.115	0.202	0.389	0.148	0.099	0.090	0.059	0.012
	Sevilla	0.001	2.992	0.002	0.001	0.063	0.246	0.177	0.118	0.040	0.021	0.014

Table 9.2.4- 259: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha annual application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.004	4.587	0.001	0.130	0.448	0.279	0.186	0.073	0.044	0.022
	Hamburg	0.030	5.641	0.015	0.333	0.948	0.389	0.259	0.196	0.108	0.027
	Jokioinen	<0.001	4.541	0.020	0.328	1.346	0.568	0.378	0.329	0.110	0.022
	Kremsmünster	0.020	4.277	0.003	0.200	0.592	0.273	0.182	0.112	0.066	0.021
	Porto	0.029	2.311	0.015	0.147	0.315	0.135	0.090	0.064	0.045	0.011
	Sevilla	<0.001	2.853	0.001	0.044	0.192	0.169	0.112	0.028	0.015	0.014
	Thiva	0.002	3.316	0.001	0.107	0.313	0.199	0.133	0.053	0.035	0.016
2nd Crop	Châteaudun	0.004	4.587	0.001	0.146	0.480	0.283	0.189	0.083	0.049	0.022
	Hamburg	0.036	5.780	0.018	0.368	1.013	0.403	0.269	0.217	0.120	0.028
	Kremsmünster	0.023	4.338	0.004	0.210	0.633	0.279	0.186	0.120	0.069	0.021
	Porto	0.038	2.440	0.018	0.188	0.370	0.145	0.097	0.083	0.058	0.012
	Sevilla	<0.001	2.999	0.001	0.051	0.230	0.181	0.121	0.035	0.018	0.015

Table 9.2.4- 260: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha annual application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.085	4.536	0.004	0.146	0.453	0.275	0.184	0.076	0.048	0.022
	Hamburg	0.268	5.536	0.029	0.353	0.947	0.375	0.250	0.199	0.113	0.027
	Jokioinen	0.022	4.493	0.028	0.341	1.345	0.556	0.370	0.326	0.113	0.022
	Kremsmünster	0.200	4.237	0.011	0.218	0.592	0.264	0.176	0.114	0.069	0.021
	Porto	0.203	2.302	0.030	0.154	0.322	0.132	0.088	0.067	0.045	0.011
	Sevilla	0.001	2.729	0.001	0.046	0.191	0.163	0.108	0.029	0.016	0.013
	Thiva	0.042	3.300	0.003	0.110	0.312	0.194	0.130	0.055	0.036	0.016
2nd Crop	Châteaudun	0.100	4.522	0.005	0.163	0.483	0.278	0.185	0.086	0.054	0.022
	Hamburg	0.312	5.705	0.034	0.395	1.019	0.392	0.262	0.220	0.123	0.028
	Kremsmünster	0.223	4.296	0.012	0.227	0.632	0.271	0.180	0.122	0.073	0.021
	Porto	0.260	2.465	0.038	0.197	0.376	0.146	0.097	0.086	0.058	0.012
	Sevilla	0.001	2.901	0.001	0.056	0.232	0.175	0.117	0.036	0.019	0.014

Table 9.2.4- 261: FOCUS MACRO, PECgw results of fluopicolide – 1 x 100 g/ha annual application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - MACRO Fluopicolide
1st Crop	Chateaudun	0.0283
2nd Crop	Chateaudun	0.0617

Lettuce Late 1 x 100 g/ha BBCH 41-49

Annual application, 1st Crop & 2nd Crop

Table 9.2.4- 262: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha annual application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.001	1.454	<0.001	0.003	0.071	0.226	0.136	0.091	0.041	0.024	0.010
	Hamburg	0.013	1.801	0.005	0.017	0.149	0.508	0.201	0.134	0.112	0.049	0.012
	Jokioinen	<0.001	1.529	0.003	0.002	0.129	0.622	0.258	0.172	0.152	0.046	0.010
	Kremsmünster	0.007	1.358	0.001	0.008	0.083	0.240	0.112	0.075	0.047	0.027	0.008
	Porto	0.004	0.823	0.004	0.010	0.066	0.157	0.069	0.046	0.032	0.021	0.005
	Sevilla	<0.001	0.812	<0.001	<0.001	0.024	0.118	0.090	0.060	0.019	0.009	0.007
	Thiva	<0.001	0.945	<0.001	<0.001	0.025	0.088	0.076	0.050	0.013	0.008	0.006
2nd Crop	Châteaudun	0.001	1.439	0.001	0.003	0.070	0.219	0.135	0.090	0.039	0.023	0.009
	Hamburg	0.014	1.805	0.005	0.019	0.146	0.486	0.197	0.131	0.105	0.048	0.012
	Kremsmünster	0.007	1.361	0.002	0.009	0.081	0.237	0.111	0.074	0.045	0.026	0.008
	Porto	0.005	0.791	0.005	0.012	0.062	0.139	0.067	0.044	0.028	0.019	0.005
	Sevilla	<0.001	0.818	<0.001	<0.001	0.029	0.128	0.091	0.061	0.023	0.010	0.007

Table 9.2.4- 263: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha annual application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.035	1.521	0.003	0.013	0.082	0.234	0.138	0.092	0.043	0.027	0.010
	Hamburg	0.104	1.845	0.010	0.041	0.161	0.511	0.198	0.132	0.114	0.052	0.013
	Jokioinen	0.004	1.567	0.008	0.009	0.140	0.632	0.257	0.172	0.156	0.048	0.010
	Kremsmünster	0.071	1.399	0.004	0.024	0.091	0.244	0.111	0.074	0.049	0.029	0.009
	Porto	0.045	0.851	0.008	0.024	0.072	0.160	0.069	0.046	0.034	0.022	0.005
	Sevilla	<0.001	0.832	<0.001	0.001	0.027	0.121	0.089	0.059	0.019	0.009	0.006
	Thiva	0.008	0.987	0.001	0.004	0.030	0.094	0.077	0.052	0.015	0.010	0.006
2nd Crop	Châteaudun	0.038	1.513	0.003	0.014	0.081	0.225	0.137	0.091	0.041	0.026	0.010
	Hamburg	0.117	1.864	0.010	0.044	0.159	0.489	0.195	0.130	0.107	0.051	0.012
	Kremsmünster	0.078	1.409	0.005	0.026	0.090	0.243	0.110	0.074	0.046	0.028	0.009
	Porto	0.052	0.829	0.009	0.027	0.069	0.145	0.067	0.045	0.030	0.020	0.005
	Sevilla	0.001	0.836	<0.001	0.001	0.031	0.128	0.089	0.060	0.023	0.011	0.007

Table 9.2.4- 264: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha annual application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.001	1.400	0.000	0.064	0.217	0.134	0.090	0.038	0.022	0.010
	Hamburg	0.013	1.746	0.002	0.139	0.503	0.200	0.133	0.110	0.047	0.012
	Jokioinen	0.000	1.488	0.002	0.122	0.615	0.257	0.171	0.151	0.044	0.010
	Kremsmünster	0.007	1.317	0.001	0.076	0.234	0.111	0.074	0.046	0.025	0.008
	Porto	0.004	0.783	0.002	0.060	0.151	0.067	0.045	0.030	0.019	0.005
	Sevilla	0.000	0.758	0.000	0.022	0.112	0.088	0.059	0.017	0.008	0.007
	Thiva	0.000	0.904	0.000	0.023	0.084	0.073	0.049	0.012	0.008	0.006
2nd Crop	Châteaudun	0.001	1.381	0.000	0.064	0.213	0.132	0.088	0.037	0.022	0.009
	Hamburg	0.014	1.734	0.003	0.136	0.479	0.195	0.130	0.103	0.046	0.012
	Kremsmünster	0.007	1.317	0.001	0.074	0.233	0.110	0.073	0.043	0.025	0.008
	Porto	0.005	0.757	0.002	0.058	0.136	0.066	0.044	0.028	0.019	0.005
	Sevilla	0.000	0.803	0.000	0.028	0.131	0.091	0.061	0.023	0.010	0.007

Table 9.2.4- 265: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha annual application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.035	1.467	0.002	0.074	0.226	0.136	0.091	0.041	0.025	0.010
	Hamburg	0.104	1.787	0.006	0.152	0.508	0.198	0.132	0.112	0.050	0.013
	Jokioinen	0.004	1.528	0.005	0.133	0.624	0.256	0.171	0.153	0.046	0.010
	Kremsmünster	0.071	1.353	0.003	0.085	0.239	0.111	0.074	0.047	0.028	0.009
	Porto	0.045	0.813	0.005	0.067	0.155	0.068	0.045	0.032	0.021	0.005
	Sevilla	<0.001	0.779	<0.001	0.025	0.115	0.087	0.058	0.018	0.009	0.006
	Thiva	0.008	0.945	<0.001	0.027	0.089	0.075	0.050	0.014	0.009	0.006
2nd Crop	Châteaudun	0.038	1.452	0.002	0.073	0.220	0.135	0.090	0.040	0.024	0.010
	Hamburg	0.117	1.801	0.007	0.150	0.482	0.194	0.129	0.105	0.049	0.012
	Kremsmünster	0.078	1.367	0.003	0.084	0.239	0.110	0.073	0.045	0.027	0.009
	Porto	0.052	0.790	0.006	0.065	0.141	0.066	0.044	0.029	0.019	0.005
	Sevilla	0.001	0.817	0.000	0.031	0.131	0.089	0.059	0.023	0.011	0.007

Table 9.2.4- 266: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha annual application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.001	1.813	0.000	0.002	0.057	0.194	0.115	0.076	0.033	0.019	0.009
	Hamburg	0.007	2.254	0.008	0.013	0.142	0.406	0.161	0.107	0.087	0.046	0.011
	Jokioinen	<0.001	1.696	0.008	0.002	0.129	0.545	0.227	0.152	0.132	0.045	0.008
	Kremsmünster	0.004	1.682	0.002	0.007	0.084	0.251	0.112	0.074	0.048	0.027	0.008
	Porto	0.007	0.923	0.010	0.015	0.072	0.146	0.056	0.038	0.032	0.022	0.005
	Sevilla	<0.001	1.166	<0.001	<0.001	0.020	0.093	0.073	0.049	0.014	0.007	0.006
	Thiva	<0.001	1.189	<0.001	0.001	0.028	0.093	0.069	0.046	0.014	0.009	0.006
2nd Crop	Châteaudun	0.001	1.778	<0.001	0.002	0.055	0.181	0.110	0.074	0.032	0.019	0.008
	Hamburg	0.008	2.242	0.009	0.014	0.140	0.398	0.158	0.106	0.083	0.045	0.011
	Kremsmünster	0.004	1.683	0.002	0.008	0.081	0.244	0.111	0.074	0.047	0.027	0.008
	Porto	0.009	0.931	0.011	0.018	0.064	0.139	0.058	0.038	0.030	0.019	0.005
	Sevilla	<0.001	1.156	<0.001	<0.001	0.024	0.106	0.070	0.047	0.018	0.009	0.006

Table 9.2.4- 267: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha annual application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.020	1.787	0.002	0.008	0.063	0.196	0.112	0.075	0.034	0.021	0.009
	Hamburg	0.074	2.219	0.014	0.034	0.152	0.406	0.156	0.104	0.088	0.047	0.011
	Jokioinen	0.003	1.687	0.011	0.007	0.134	0.544	0.223	0.148	0.130	0.045	0.008
	Kremsmünster	0.053	1.673	0.005	0.019	0.090	0.251	0.109	0.072	0.048	0.029	0.008
	Porto	0.062	0.933	0.015	0.033	0.076	0.148	0.056	0.038	0.034	0.022	0.005
	Sevilla	<0.001	1.130	<0.001	<0.001	0.021	0.093	0.071	0.047	0.014	0.008	0.006
	Thiva	0.005	1.164	0.001	0.003	0.030	0.093	0.067	0.045	0.015	0.010	0.006
2nd Crop	Châteaudun	0.022	1.754	0.002	0.008	0.061	0.182	0.109	0.072	0.032	0.020	0.008
	Hamburg	0.083	2.212	0.015	0.038	0.151	0.395	0.153	0.102	0.084	0.047	0.011
	Kremsmünster	0.059	1.680	0.005	0.021	0.089	0.243	0.108	0.072	0.047	0.028	0.008
	Porto	0.072	0.946	0.017	0.035	0.067	0.139	0.056	0.038	0.031	0.019	0.005
	Sevilla	<0.001	1.112	0.001	<0.001	0.025	0.103	0.067	0.044	0.018	0.009	0.005

Table 9.2.4- 268: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha annual application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.001	1.764	0.000	0.052	0.187	0.113	0.076	0.031	0.018	0.009
	Hamburg	0.007	2.201	0.005	0.131	0.396	0.160	0.106	0.084	0.044	0.011
	Jokioinen	0.000	1.679	0.007	0.124	0.545	0.226	0.150	0.132	0.044	0.008
	Kremsmünster	0.004	1.633	0.001	0.077	0.245	0.111	0.074	0.046	0.026	0.008
	Porto	0.007	0.891	0.005	0.067	0.139	0.055	0.037	0.030	0.021	0.005
	Sevilla	0.000	1.129	0.000	0.018	0.087	0.072	0.048	0.013	0.006	0.006
	Thiva	0.000	1.144	0.000	0.026	0.089	0.067	0.045	0.013	0.009	0.006
2nd Crop	Châteaudun	0.001	1.723	0.000	0.051	0.176	0.109	0.072	0.031	0.017	0.008
	Hamburg	0.008	2.188	0.006	0.131	0.389	0.157	0.104	0.081	0.043	0.011
	Kremsmünster	0.004	1.640	0.001	0.075	0.241	0.110	0.074	0.046	0.025	0.008
	Porto	0.009	0.902	0.006	0.063	0.137	0.057	0.038	0.030	0.018	0.005
	Sevilla	0.000	1.121	0.000	0.023	0.107	0.071	0.047	0.019	0.008	0.006

Table 9.2.4- 269: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 1 x 100 g/ha annual application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.019	1.742	0.001	0.057	0.190	0.112	0.074	0.033	0.019	0.009
	Hamburg	0.074	2.175	0.010	0.142	0.399	0.155	0.103	0.085	0.045	0.011
	Jokioinen	0.003	1.666	0.009	0.128	0.538	0.221	0.148	0.129	0.044	0.008
	Kremsmünster	0.053	1.630	0.003	0.084	0.245	0.108	0.072	0.047	0.027	0.008
	Porto	0.061	0.907	0.010	0.071	0.142	0.055	0.037	0.032	0.021	0.005
	Sevilla	<0.001	1.095	<0.001	0.019	0.087	0.070	0.046	0.013	0.007	0.006
	Thiva	0.005	1.120	0.001	0.027	0.088	0.065	0.044	0.014	0.009	0.006
2nd Crop	Châteaudun	0.022	1.704	0.001	0.056	0.176	0.107	0.071	0.031	0.019	0.008
	Hamburg	0.083	2.165	0.011	0.143	0.389	0.152	0.102	0.082	0.045	0.011
	Kremsmünster	0.059	1.639	0.003	0.082	0.240	0.107	0.072	0.046	0.026	0.008
	Porto	0.072	0.922	0.012	0.066	0.138	0.056	0.038	0.031	0.019	0.005
	Sevilla	<0.001	1.081	<0.001	0.024	0.105	0.067	0.044	0.018	0.009	0.005

Table 9.2.4- 270: FOCUS MACRO, PECgw results of fluopicolide – 100 g/ha annual application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - MACRO Fluopicolide
1st Crop	Chateaudun	0.0108
2nd Crop	Chateaudun	0.0109

Lettuce Late 2 x 100 g/ha BBCH 41-49

Annual application, 1st Crop & 2nd Crop

Table 9.2.4- 271: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.005	3.028	0.001	0.007	0.150	0.453	0.273	0.182	0.082	0.050	0.020
	Hamburg	0.041	3.716	0.012	0.043	0.311	1.019	0.401	0.268	0.225	0.102	0.025
	Jokioinen	<0.001	3.186	0.010	0.007	0.277	1.250	0.516	0.344	0.307	0.096	0.020
	Kremsmünster	0.022	2.821	0.004	0.020	0.174	0.480	0.224	0.150	0.095	0.057	0.017
	Porto	0.014	1.689	0.010	0.025	0.137	0.313	0.137	0.091	0.065	0.043	0.010
	Sevilla	<0.001	1.685	<0.001	0.001	0.051	0.235	0.179	0.119	0.037	0.018	0.013
	Thiva	0.001	1.961	0.001	0.003	0.054	0.179	0.152	0.101	0.027	0.018	0.013
2nd Crop	Châteaudun	0.006	3.000	0.001	0.008	0.149	0.442	0.270	0.180	0.079	0.050	0.020
	Hamburg	0.046	3.754	0.013	0.047	0.308	0.979	0.394	0.263	0.212	0.101	0.025
	Kremsmünster	0.024	2.847	0.004	0.022	0.171	0.478	0.222	0.148	0.091	0.055	0.017
	Porto	0.019	1.655	0.012	0.030	0.131	0.282	0.134	0.089	0.058	0.040	0.010
	Sevilla	<0.001	1.725	<0.001	0.001	0.062	0.260	0.182	0.121	0.046	0.021	0.014

Table 9.2.4- 272: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.102	3.147	0.007	0.034	0.175	0.471	0.277	0.184	0.087	0.057	0.020
	Hamburg	0.282	3.815	0.023	0.097	0.337	1.023	0.396	0.264	0.228	0.108	0.026
	Jokioinen	0.019	3.256	0.021	0.023	0.301	1.272	0.515	0.343	0.314	0.098	0.020
	Kremsmünster	0.191	2.863	0.011	0.059	0.192	0.487	0.222	0.148	0.097	0.060	0.017
	Porto	0.122	1.763	0.020	0.057	0.149	0.320	0.137	0.092	0.068	0.045	0.011
	Sevilla	0.002	1.724	0.001	0.002	0.058	0.240	0.176	0.118	0.038	0.020	0.013
	Thiva	0.028	2.062	0.002	0.011	0.066	0.193	0.155	0.104	0.031	0.021	0.013
2nd Crop	Châteaudun	0.113	3.132	0.007	0.037	0.173	0.454	0.275	0.183	0.084	0.056	0.020
	Hamburg	0.313	3.851	0.024	0.105	0.335	0.982	0.389	0.259	0.215	0.107	0.026
	Kremsmünster	0.207	2.900	0.012	0.063	0.189	0.488	0.220	0.147	0.094	0.058	0.017
	Porto	0.148	1.736	0.022	0.064	0.144	0.295	0.135	0.090	0.062	0.041	0.011
	Sevilla	0.002	1.757	0.001	0.002	0.067	0.259	0.179	0.119	0.046	0.023	0.014

Table 9.2.4- 273: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.005	2.917	0.001	0.135	0.435	0.269	0.179	0.077	0.046	0.020
	Hamburg	0.041	3.591	0.006	0.290	1.006	0.400	0.267	0.220	0.097	0.025
	Jokioinen	0.000	3.125	0.006	0.262	1.238	0.513	0.342	0.304	0.093	0.020
	Kremsmünster	0.022	2.718	0.002	0.161	0.468	0.223	0.148	0.091	0.053	0.017
	Porto	0.014	1.606	0.004	0.123	0.301	0.134	0.090	0.061	0.039	0.010
	Sevilla	0.000	1.571	0.000	0.046	0.223	0.175	0.117	0.034	0.017	0.013
	Thiva	0.001	1.883	0.000	0.049	0.171	0.147	0.098	0.026	0.016	0.013
2nd Crop	Châteaudun	0.006	2.882	0.001	0.136	0.431	0.266	0.177	0.075	0.046	0.020
	Hamburg	0.046	3.615	0.007	0.290	0.966	0.391	0.261	0.209	0.096	0.025
	Kremsmünster	0.024	2.761	0.002	0.158	0.469	0.219	0.146	0.087	0.052	0.017
	Porto	0.019	1.578	0.005	0.123	0.276	0.133	0.088	0.057	0.038	0.010
	Sevilla	0.000	1.694	0.000	0.060	0.265	0.183	0.122	0.047	0.021	0.014

Table 9.2.4- 274: FOCUS PEARL, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PEARL									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.102	3.052	0.005	0.159	0.454	0.273	0.182	0.083	0.053	0.020
	Hamburg	0.282	3.701	0.015	0.318	1.015	0.395	0.263	0.225	0.104	0.026
	Jokioinen	0.019	3.197	0.016	0.285	1.257	0.512	0.342	0.310	0.095	0.020
	Kremsmünster	0.191	2.772	0.008	0.179	0.477	0.221	0.147	0.095	0.057	0.017
	Porto	0.122	1.686	0.014	0.138	0.309	0.135	0.090	0.064	0.042	0.011
	Sevilla	0.002	1.614	0.000	0.052	0.228	0.172	0.115	0.036	0.018	0.013
	Thiva	0.028	1.974	0.001	0.059	0.183	0.151	0.101	0.029	0.019	0.013
2nd Crop	Châteaudun	0.113	3.020	0.005	0.158	0.446	0.270	0.180	0.081	0.052	0.020
	Hamburg	0.313	3.734	0.017	0.318	0.969	0.386	0.258	0.212	0.102	0.026
	Kremsmünster	0.207	2.826	0.008	0.177	0.481	0.219	0.146	0.092	0.056	0.017
	Porto	0.148	1.661	0.016	0.136	0.286	0.134	0.089	0.060	0.040	0.011
	Sevilla	0.002	1.720	0.001	0.066	0.264	0.179	0.109	0.047	0.022	0.014

Table 9.2.4- 275: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha application – acidic soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.002	3.738	0.001	0.004	0.120	0.388	0.229	0.152	0.066	0.040	0.018
	Hamburg	0.022	4.635	0.020	0.032	0.297	0.812	0.321	0.214	0.178	0.095	0.022
	Jokioinen	0.000	3.524	0.021	0.005	0.274	1.092	0.454	0.302	0.264	0.092	0.017
	Kremsmünster	0.014	3.493	0.004	0.018	0.176	0.503	0.222	0.148	0.096	0.058	0.016
	Porto	0.022	1.923	0.022	0.037	0.149	0.291	0.112	0.075	0.065	0.044	0.009
	Sevilla	<0.001	2.432	0.001	<0.001	0.042	0.185	0.146	0.097	0.028	0.015	0.011
	Thiva	0.001	2.450	0.001	0.002	0.060	0.186	0.138	0.092	0.029	0.020	0.011
2nd Crop	Châteaudun	0.003	3.655	0.001	0.004	0.117	0.363	0.221	0.147	0.064	0.039	0.017
	Hamburg	0.026	4.625	0.022	0.036	0.299	0.800	0.316	0.211	0.168	0.094	0.022
	Kremsmünster	0.016	3.507	0.005	0.019	0.172	0.490	0.221	0.148	0.095	0.055	0.017
	Porto	0.028	1.971	0.026	0.044	0.134	0.281	0.115	0.077	0.061	0.039	0.009
	Sevilla	<0.001	2.429	0.001	0.000	0.051	0.215	0.140	0.093	0.037	0.018	0.012

Table 9.2.4- 276: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha application – acidic soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) – PELMO										
		FLC	M-01	M-02	M-03	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.060	3.673	0.004	0.020	0.133	0.392	0.224	0.150	0.069	0.044	0.017
	Hamburg	0.204	4.534	0.033	0.080	0.315	0.811	0.309	0.206	0.175	0.098	0.022
	Jokioinen	0.015	3.495	0.029	0.019	0.283	1.093	0.443	0.296	0.260	0.093	0.017
	Kremsmünster	0.151	3.461	0.011	0.047	0.190	0.502	0.215	0.143	0.096	0.060	0.016
	Porto	0.159	1.911	0.034	0.076	0.155	0.294	0.112	0.074	0.067	0.044	0.009
	Sevilla	<0.001	2.341	0.001	0.001	0.045	0.184	0.140	0.094	0.029	0.015	0.011
	Thiva	0.019	2.400	0.002	0.009	0.063	0.188	0.134	0.090	0.030	0.021	0.011
2nd Crop	Châteaudun	0.069	3.590	0.005	0.023	0.130	0.368	0.217	0.144	0.066	0.042	0.017
	Hamburg	0.233	4.538	0.036	0.091	0.316	0.794	0.305	0.203	0.170	0.097	0.022
	Kremsmünster	0.166	3.474	0.012	0.051	0.186	0.487	0.215	0.143	0.095	0.057	0.016
	Porto	0.197	1.974	0.039	0.082	0.140	0.281	0.113	0.076	0.062	0.040	0.009
	Sevilla	<0.001	2.299	0.001	0.001	0.053	0.209	0.133	0.089	0.037	0.018	0.011

Table 9.2.4- 277: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha application – alkaline soils, with aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.002	3.638	0.000	0.108	0.374	0.226	0.150	0.062	0.037	0.018
	Hamburg	0.022	4.529	0.012	0.276	0.792	0.318	0.212	0.167	0.090	0.022
	Jokioinen	0.000	3.495	0.018	0.262	1.088	0.450	0.300	0.264	0.090	0.017
	Kremsmünster	0.014	3.391	0.003	0.163	0.490	0.220	0.147	0.093	0.054	0.016
	Porto	0.022	1.860	0.011	0.138	0.277	0.110	0.073	0.060	0.042	0.009
	Sevilla	0.000	2.351	0.000	0.037	0.173	0.143	0.095	0.026	0.013	0.011
	Thiva	0.001	2.363	0.000	0.054	0.178	0.134	0.090	0.027	0.018	0.011
2nd Crop	Châteaudun	0.003	3.546	0.000	0.108	0.355	0.217	0.145	0.062	0.036	0.017
	Hamburg	0.026	4.524	0.014	0.280	0.781	0.314	0.209	0.165	0.090	0.022
	Kremsmünster	0.016	3.409	0.003	0.159	0.485	0.220	0.147	0.092	0.052	0.017
	Porto	0.028	1.904	0.016	0.130	0.279	0.115	0.076	0.062	0.038	0.009
	Sevilla	0.000	2.356	0.001	0.049	0.215	0.140	0.094	0.037	0.017	0.012

Table 9.2.4- 278: FOCUS PELMO, PECgw results of fluopicolide and its metabolites – 2 x 100 g/ha application – alkaline soils, without aged-sorption

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - PELMO									
		FLC	M-01	M-02	M-05	M-10	M-11	M-12	M-13	M-14	M-15
1st Crop	Châteaudun	0.060	3.584	0.003	0.121	0.380	0.222	0.148	0.065	0.040	0.017
	Hamburg	0.204	4.453	0.024	0.295	0.796	0.307	0.205	0.170	0.093	0.022
	Jokioinen	0.015	3.454	0.024	0.271	1.081	0.440	0.294	0.259	0.090	0.017
	Kremsmünster	0.151	3.363	0.008	0.178	0.489	0.214	0.142	0.094	0.057	0.016
	Porto	0.159	1.872	0.024	0.145	0.282	0.109	0.073	0.063	0.042	0.009
	Sevilla	0.000	2.262	0.001	0.040	0.172	0.138	0.092	0.026	0.014	0.011
	Thiva	0.019	2.313	0.001	0.057	0.178	0.131	0.087	0.028	0.019	0.011
2nd Crop	Châteaudun	0.069	3.493	0.003	0.119	0.355	0.213	0.142	0.064	0.039	0.017
	Hamburg	0.233	4.455	0.027	0.300	0.783	0.304	0.203	0.166	0.093	0.022
	Kremsmünster	0.166	3.383	0.009	0.174	0.481	0.214	0.143	0.093	0.054	0.016
	Porto	0.197	1.928	0.030	0.134	0.279	0.113	0.075	0.062	0.039	0.009
	Sevilla	0.000	2.257	0.001	0.051	0.211	0.134	0.089	0.037	0.018	0.011

Table 9.2.4- 279: FOCUS MACRO, PECgw results of fluopicolide – 2 x 100 g/ha application

Crop	Scenario	80th percentile PECgw at 1 m soil depth (µg/L) - MACRO Fluopicolide
1st Crop	Chateaudun	0.0314
2nd Crop	Chateaudun	0.0359

III. Conclusion

The predicted environmental concentrations in groundwater (PEC_{gw}) of the active substance fluopicolide and its metabolites M-01, M-02, M-03, M-05, M-10, M-11, M-12, M-13, M-14, and M-15 were calculated for use in lettuce.

The overall maximum predicted PEC_{gw} value for fluopicolide was 0.411 µg/L in the Hamburg scenario for an early application of 100 g a.s./ha in the second crop of lettuce per season each year without considering time dependent sorption parameters of fluopicolide. After refinement of the PEC_{gw} by considering aged sorption the predicted PEC_{gw} value for parent was 0.064 µg/L.

The metabolites M-02 and M-15 were predicted to reach groundwater at concentrations below 0.1 µg/L. The metabolites M-01, M-03, M-05, M-10, M-11, M-12, M-13, M-14 were predicted to reach groundwater at concentrations in excess of 0.1 µg/L. The overall maximum concentrations were 5.895 µg/L for M-01, 0.134 µg/L for M-03, 0.434 µg/L for M-05, 1.604 µg/L for M-10, 0.641 µg/L for M-11, 0.427 µg/L for M-12, 0.397 µg/L for M-13 and 0.138 µg/L for M-14. The non-relevance of these metabolites has been addressed in Document N4 using the assessment scheme described in the 'Guidance Document On The Assessment Of The Relevance Of Metabolites In Groundwater Of Substances Regulated Under Council Directive 91/414/EEC (Sanco/221/2000 – Revision 10 – Final; 25 February 2003).

Assessment and conclusion by applicant:

The risk assessment report was conducted according to FOCUS (2014) and is considered valid to assess predicted environmental concentrations in groundwater (PEC_{GW}) for fluopicolide and its metabolites in lettuce.

PEC_{gw} for propamocarb-hydrochloride

No groundwater assessment was required for propamocarb-hydrochloride.

CP 9.2.4.2 Additional field tests

A comprehensive range of field dissipation/degradation studies, in total 17 studies, have been conducted with fluopicolide and are summarized in MCA 7.1.2.2.1. In addition, a number of field degradation studies have been conducted with the metabolite M-01 see also section MCA 7.1.2.2.1. Also, a lysimeter study and field leaching study were conducted and are summarized in MCA 7.1.4.2 and MCA 7.1.4.2.3 both of which additionally characterized the leaching behavior of fluopicolide and its metabolites. Given the results of these field studies and the calculations for predicted environmental concentrations in groundwater no additional field tests are needed or required for this formulation.

CP 9.2.5 Estimation of concentrations in surface water and sediment

Predicted environmental concentrations fluopicolide and its metabolites M-01 (AE C653711), M-02 (AE C657188) and M-03 (AE 0608000) in surface water (PECsw) and sediment (PECsed) were calculated for the use in Europe using the tiered FOCUS Surface Water approach. All relevant entry routes of a compound into surface water (principally a combination of spray drift and runoff/erosion or drain flow) were considered in these calculations. FOCUS Steps 1-4 calculations were performed for fluopicolide and M-03 (AE 0608000) and FOCUS Step 1-2 calculations for the metabolites M-01 (AE C653711) and M-02 (AE C657188).

Metabolites M-01, M-02 and M-03 are relevant for the aquatic risk assessment. No metabolite is relevant for sediment risk assessment.

M-01 was the only major metabolite detected in water sediment systems reaching a maximum of 20.3% in the total system (sediment compartment maximum 3.9%, water compartment maximum 18.2%). M-02 (AE C657188) was also detected as a significant minor metabolite, >5% at 3 consecutive timepoints and increasing at final timepoint, reaching a maximum of 8.2% in the total system (sediment compartment maximum 0.8%, water compartment maximum 7.4%). The metabolite M-03 (AE 0608000) was not detected as an aquatic metabolite. All three metabolites have been included in FOCUS surface water and sediment modelling, as exposure from formation of a metabolite in soil, with subsequent exposure of surface water and sediment from drainage or runoff from soil, has to be considered in addition to the formation of a metabolite in aquatic systems. However, M-03 is unstable in aquatic systems making aquatic ecotoxicological testing unfeasible (see KCA 7.2.1.1/03 and KCA 8.2.6.2/11 for further details).

Predicted environmental concentrations in surface water (PEC_{SW})

Data Point:	KCP 9.2.5/01
Report Author:	[redacted]
Report Year:	2005
Report Title:	Predicted environmental concentrations of AE C638206 and metabolites in surface water and sediment (PECsw, PECsed) calculated according to FOCUS for use in vine and potatoes in Europe Codes: AE C638206, AE C653711, AE C657188
Report No:	C048302
Document No:	M-221316-02-1
Guideline(s) followed in study:	--
Deviations from current test guideline:	--
Previous evaluation:	yes, evaluated and accepted DAR (2005)
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

In the previous submission (DAR, 2005), this modelling report was evaluated and accepted as valid. However the modelling endpoints have been superseded by new studies and new kinetic evaluations. Additionally calculations were performed for crop use on vines which is not one of the current representative uses. Consequently the report is now invalid and a summary of the results is not presented in this dossier. For procedural reasons it has to be included in the current dossier however it is now superseded by KCP 9.2.5/05, [redacted] 2020, M-687153-01-1.

Data Point:	KCP 9.2.5/02
Report Author:	[redacted]
Report Year:	2004
Report Title:	Predicted environmental concentrations of propamocarb-HCl in surface water and sediment (PECsw, PECsed) calculated according to FOCUS for use in potatoes in Europe Code: AE B066752
Report No:	C039640
Document No:	M-227077-01-1
Guideline(s) followed in study:	--
Deviations from current test guideline:	--
Previous evaluation:	yes, evaluated and accepted DAR (2005)
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

In the previous submission (DAR, 2005), this modelling report was evaluated and accepted as valid. However the modelling endpoints have been superseded by new studies and new kinetic evaluations. Consequently the report is now invalid and a summary of the results is not presented in this dossier. For procedural reasons it has to be included in the current dossier however it is now superseded by KCP 9.2.5/08, [redacted] 2020, M-687163-01-1.

Data Point:	KCP 9.2.5/03
Report Author:	[redacted]
Report Year:	2005
Report Title:	Predicted environmental concentrations in surface water and assessment of risk to aquatic organisms for the metabolite AE 0608000 folloing Use of Fluopicolide on vines and potatoes
Report No:	CX/05/011A
Document No:	M-253959-01-1
Guideline(s) followed in study:	not applicable
Deviations from current test guideline:	none
Previous evaluation:	yes, evaluated and accepted DAR (2005)
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

In the previous submission (DAR, 2005), this modelling report was evaluated and accepted as valid. However the modelling endpoints have been superseded by new studies and new kinetic evaluations. Additionally calculations were performed for crop use on vines which is not one of the current representative uses. Consequently the report is now invalid and a summary of the results is not presented in this dossier. For procedural reasons it has to be included in the current dossier however it is now superseded by KCP 9.2.5/05, [redacted] 2020, M-687153-01-1.

PEC$_{sw}$ for fluopicolide

Data Point:	KCP 9.2.5/04
Report Author:	[redacted]
Report Year:	2020
Report Title:	Fluopicolide (FLC): Core PECsw EUR - Modelling core info document for surface water risk assessment in Europe
Report No:	VC/19/041K
Document No:	M-686283-01-1
Guideline(s) followed in study:	FOCUS 2014 Generic guidance for FOCUS Surface Water Scenarios Version 1.4 May 2015
Deviations from current test guideline:	None
Previous evaluation:	No, not previously submitted
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

Executive Summary

This summary summarises the substance data for fluopicolide and its metabolites as used for the purpose of surface water risk assessment employing the following deterministic pesticide fate models:

- STEP 1 in FOCUS
- STEP 2 in FOCUS
- STEP 3 in FOCUS
- STEP 4 in FOCUS

The parameters correspond to standard EU requirements.

Modelling reports utilising the core info document should have the substance data presented as shown in the following tables.

Table 9.2.5- 1: Substance parameters used at FOCUS Steps 1-2 level

Parameter	Unit	Fluopicolide	M-01 (AE C653711)	M-02 (AE C657188)	M-03 (AE 0608000)
Molar mass	(g/mol)	383.59	190.03	225.56	399.58
Water solubility	(mg/L)	2.8	1830	9721	10
Koc	(mL/g)	267.7	24.1	5.7	106.9
Degradation					
Soil	(days)	182	146	1.6	17.9
Total system	(days)	1000	1000	1000	1.9
Water	(days)	1000	1000	1000	1.9
Sediment	(days)	1000	1000	1000	1000
Max occurrence					
Water / sediment	(%)	100	20.3	8.2	0.001
Soil	(%)	100	48	16.4	10.6

Table 9.2.5- 2: Substance parameters used for fluopicolide and its metabolite M-03 (AE 0608000) at Step 3/4 level

Parameter	Unit	Parent	Metabolite
Substance SWASH code		Fluopicolide FLC	M-03 (AE 0608000) M03
General Molar mass	(g/mol)	383.59	399.58

Parameter	Unit	Parent	Metabolite
Water solubility (temp.)	(mg/L)	2.8 (20 °C)	10 (20 °C)
Vapour pressure (temp.)	(Pa)	3.03E-07 (20 °C)	0 (20 °C)
Crop processes			
Coefficient for uptake by plant (TSCF)	(-)	0.5	0
Wash-off factor	(1/m)	50	50
Sorption			
K_{OC}	(mL/g)	267.74	106.89
K_{OM}	(mL/g)	155.3	62
Freundlich exponent ($^1/_n$)	(-)	0.888	0.971
Transformation			
DT_{50} in soil	(days)	182	17.9
temperature	(°C)	20	20
moisture content (pF)	(log(cm))	2	2
formation fraction in soil	(-)	-	0.53
DT_{50} in water	(days)	1000	1.9
temperature	(°C)	20	20
formation fraction in water	(-)	-	-
DT_{50} in sediment	(days)	1000	1000
temperature	(°C)	20	20
formation fraction in sediment	(-)	-	-
DT_{50} on canopy	(days)	10	10
Exponent for the effect of moisture			
PRZM and TOXSWA (Walker exp)	(-)	0.7	0.7
MACRO (calibrated value)	(-)	0.49	0.49
Effect of temperature			
TOXSWA (molar activation energy)	(kJ/mol)	65.4	65.4
MACRO (effect of temperature)	(1/K)	0.0948	0.0948
PRZM (Q_{10})	(-)	2.58	2.58

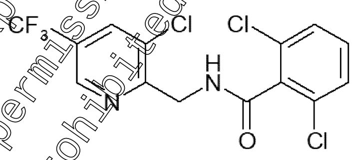
I. Materials and Methods

Calculation of the substance parameters for fluopicolide and its metabolites M-01, M-02 and M-03 is detailed as follows: -

Fluopicolide (AE C638206)

Physico-Chemical Properties

Structural formula



Common name Fluopicolide (AE C638206)

Chemical name (IUPAC) 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]-benzamide

Molar mass 383.59 g mol^{-1}

Water solubility 2.8 mg L^{-1} at 20°C (M-234496-01-1, [redacted] 2003a)

Vapour pressure 3.03×10^{-7} Pa at 20°C (M-197457-01-1, [redacted] 2000)

Degradation in Aerobic Soil

Laboratory studies

The aerobic degradation and metabolism of fluopicolide in soil was investigated in the laboratory by M-201230-02-1, [redacted] (2003); M-241049-01-1, [redacted] (2003a); M-241052-01-1, [redacted] (2003b); M-241051-01-1, [redacted] (2003c); M-550687-01-1, [redacted] (2016a); M-555570-01-1, [redacted] (2016b) and M-655056-01-1, [redacted] (2019). A summary of the modelling endpoint $DegT_{50}$ values derived for fluopicolide (KCA 7.1.2.1.1/10, M-685680-01-1, [redacted]), normalised to 20°C and pF2, is given in Table 9.2.5- 3.

Table 9.2.5- 3: Summary of $DegT_{50}$ values derived for fluopicolide under laboratory conditions (after M-685680-01-1, Carnall *et al.*, 2020)

Applied compound	Study	Soil	Model selected	$DegT_{50}$ un-normalised (d)	$DegT_{50}$ normalised to 20°C and pF2 (d)
Fluopicolide	M-201230-02-1, [redacted] 2003	Münster	SFO	212.0	212.0
		Sarotti	SFO	191.2	191.2
	M-241049-01-1, [redacted] 2003a	Abington (non-sterile)	SFO	348.0	340.2
	M-241051-01-1, [redacted] 2003b	Lamberton	SFO	1290.0	1037.9
	M-241052-01-1, [redacted] 2003c	Lamberton	SFO	358.0	395.8
		Pikeville	DFOP	612.9[a] / 30.1[b]	616.0[a] / 30.3[b]
	M-550687-01-1, [redacted] 2016a	Albaro/Marcomcini	DFOP	146.2[a] / 2.8[b]	146.2[a] / 2.8[b]
		Great Chishill	DFOP	312.4[a] / 2.7[b]	312.4[a] / 2.7[b]
		[redacted]	DFOP	155.5[a] / 7.2[b]	155.5[a] / 7.2[b]
		Mas du Coq	DFOP	216.7[a] / 10.5[b]	193.7[a] / 9.4[b]
		Parcey Meslay	DFOP	202.5[a] / 8.1[b]	202.5[a] / 8.1[b]
		Vilobi d'Onyar	DFOP	93.5[a] / 7.8[b]	93.5[a] / 7.8[b]
	M-555570-01-1, [redacted] 2016b	Dollendorf II	DFOP	111.4[a] / 0.6[b]	111.4[a] / 0.6[b]
		[redacted]	DFOP	137.7[a] / 4.2[b]	137.7[a] / 4.2[b]
		[redacted]	DFOP	141.3[a] / 6.3[b]	141.3[a] / 6.3[b]
		[redacted]	DFOP	133.5[a] / 9.4[b]	133.5[a] / 9.4[b]
	M-655056-01-1, [redacted] 2019	Abington 2	DFOP	142.1[a] / 1.9[b]	142.1[a] / 1.9[b]
		Lamberton	DFOP	176.1[a] / 2.8[b]	145.1[a] / 2.3[b]
		Lignieres	DFOP	141.4[a] / 1.4[b]	141.4[a] / 1.4[b]
		Münster	DFOP	170.1[a] / 5.3[b]	124.5[a] / 3.9[b]
		Pikeville	DFOP	155.2[a] / 4.1[b]	129.4[a] / 3.5[b]
		Sarotti 2	DFOP	161.2[a] / 1.6[b]	143.6[a] / 1.4[b]
Geometric mean (SFO and DFOP slow phase)					**181.6[c]**

a – Pseudo-SFO value based on slow phase of decline (calculated as $\ln(2)/k_2$ and normalised if applicable)
b – Pseudo-SFO value based on fast phase of decline (calculated $\ln(2)/k_1$ and normalised if applicable)
c – Geometric mean calculated of $DegT_{50}$ values from Lamberton soils prior to calculation of overall geometric mean.

Field Dissipation Studies

$DegT_{50}$ values for fluopicolide, normalised to 20°C and pF2, have been derived by M-685675-01-1, [redacted] (2020a) and M-685676-01-1, [redacted]. (2020b) from 12 terrestrial field dissipation studies (M-651636-01-1, [redacted], 2019a; M-218667-01-1, [redacted] 2003; M-220477-02-1, [redacted] 2003; M-234424-01-1, [redacted] 2004; M-247945-01-1, [redacted] 2005a; M-251338-01-1, [redacted] 2005b; M-218672-01-1, [redacted], 2003). A summary of the modelling endpoint $DegT_{50}$ values derived for fluopicolide is given in Table 9.2.5- 4: **Summary of $DegT_{50}$ values (normalised to 20°C and pF2) derived for fluopicolide from terrestrial field dissipation studies (after M-685675-01-1, [redacted]., 2020a and M-685676-01-1, [redacted] 2020b)**

.

Table 9.2.5- 4: Summary of $DegT_{50}$ values (normalised to 20°C and pF2) derived for fluopicolide from terrestrial field dissipation studies (after M-685675-01-1, [redacted] 2020a and M-685676-01-1, [redacted] 2020b)

Soil type	Aerobic field conditions					
	Location (country)	**pH ($CaCl_2$)**	**Depth (cm)**	**St. (χ^2err) (%)**	**Method of calculation**	**$DegT_{50}$ (d) norm**
Silt loam	Burscheid (Germany)	5.9	0-120	9.80	SFO	111.9
Clay	Great Chishill (UK)	7.8	0-120	11.64	SFO	216.9
Sandy loam	Lignieres de Touraine (France)	6.9	0-120	4.82	SFO	158.6
Clay loam	St.Etienne du Grès (France)	8.1	0-120	4.90	SFO	303.2
Clay loam	Albaro di Ronco all'Adige (Italy)	7.7	0-120	9.99	SFO	237.3
Sandy clay loam	Vilobi d'Onyar (Spain)	6.9	0-120	6.20	SFO	166.8
Loamy sand	Philippsburg (Germany)	6.4	0-50	9.477	SFO	199.6
Sandy clay loam	Rödelsee (Germany)	7.4	0-30	21.59	SFO	146.4
Sand	Huntlosen (Germany)	4.9	0-50	15.46	SFO	168.4
Loamy sand	Valencia (Spain)	7.3	0-30	13.95	SFO	317.4
Sandy silt	Appilly (France)	7.1	0-30	11.16	SFO	144.2
Sandy silt loam	Senas (France)	7.6	0-45	9.864	SFO	136.5
					Geometric mean	**183**

Degradation in Aerobic Soil: Overall $DegT_{50}$ value

Degradation half-lives for fluopicolide derived from laboratory and field dissipation studies were compared using the EFSA $DegT_{50}$ Endpoint Selector (EFSA, 2014). This comparison indicated that the laboratory and field DegT50 values for fluopicolide should be combined.

An overall geometric mean $DegT_{50}$ value of **182 days** in soil was derived for fluopicolide for use in surface water calculations, including both laboratory and field data.

Degradation in Water-Sediment Systems

The degradation of fluopicolide in water-sediment systems was investigated in the laboratory by M-241425-01-1, [redacted] (2003a). Limited degradation of fluopicolide was observed, and a default $DegT_{50}$ value of **1000 days** was used in the modelling to describe the degradation of fluopicolide in the water compartment, sediment compartment and total water sediment system.

Plant Uptake

The plant uptake factor for fluopicolide was set to 0.5. Residues of fluopicolide and metabolites have been found in different plants in a rotational crop study (M-240707-03-1, [redacted] 2003). Fluopicolide is redistributed via the xylem (acropetal systemic activity) but is not phloem mobile. TSCF calculated according to Briggs is 0.47.

The uptake of fluopicolide into potato plants has been investigated in a new study (M-688372-01-1, [redacted], 2020) and the transpiration stream concentration factor (TSCF) determined. The mean TSCF was determined as 0.71 (DAT2), 0.75 (DAT4) and 0.82 (DAT6), thus fully supporting the use of the default value of 0.5 in the PECsw evaluations.

Foliar Wash-off and Canopy Degradation

Plant wash-off was set to the default value of **50 m^{-1}**, and the canopy degradation DT_{50} value was set to the default value of **10 days** (FOCUS, 2014).

Adsorption

The adsorption and desorption of fluopicolide has been investigated in five studies (M-241425-01-1, [redacted] 2003b; M-233840-01-1, [redacted] 2003b; M-544194-02-1, [redacted], 2015; M-572869-01-1, [redacted], 2016; M-595721-01-1, [redacted] 2017). A summary of K_{OC} and 1/n values derived for fluopicolide from these studies is given in Table 9.2.5- 5.

A geometric mean K_{OC} value of **267.7 mL/g**, corresponding to a K_{OM} value of 155.3 mL/g ($K_{OM} = K_{OC} \div 1.724$), was used for fluopicolide in the modelling, with an arithmetic mean 1/n value of **0.888**.

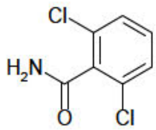
Table 9.2.5- 5: Summary of sorption parameters derived for fluopicolide

Study reference	Soil	Soil Code	Texture	pH	OC [%]	K_f (mL/g)	K_{OC} (mL/g)	1/n
M-241425-01-1, [redacted] (2003b)	Pikeville Sediment	EFS-54	loam	4.5	2.07	7.72	373*	0.926*
	Pikeville, North Carolina	EFS-65	sand	4.7	0.5	1.42	283	0.924
	Abington	EFS-86	sandy loam	7.5	2.21	7.53 (**3.36)	341 (**151.6)	0.929 (**0.882)
	Sarotti	EFS-88	silty clay loam	7.4	0.9	3.2	356	0.905
	Münster	EFS-93	loamy sand	5.7	1.3	4.54	349	0.929
	Münster	EFS-94	loamy sand	6.2	0.2	0.21	106*	0.931*
	Münster	EFS-95	loamy sand	6.2	0.2	0.17	83*	0.951*
M-233840-01-1, [redacted] (2003b)	Philippsburg	03/02	sandy loam	6.3	0.6	1.49	248	0.841
	Senas	03/03	clay loam	7.6	1.5	3.59	239	0.882
	Huntlosen	03/04	loamy sand	5.3	1.6	9.27	580	0.953
	Rodelsee	03/05	clay	7	1.5	2.59	172	0.859
M-544194-02-1, [redacted] (2015)	[redacted]	WuW	loam	5	1.8	4.65	258.6	0.9258
	[redacted]	HaH	silt loam	6.1	1.9	6.22	327.5	0.8741
	Dollendorf II,	DoII	clay loam	7.3	4.8	11.71	244.1	0.8596
	[redacted]	AXXa	sandy loam	6.5	1.5	4.04	269.3	0.8723
M-572869-01-1, [redacted] (2016)	Burscheid	VG08	silt loam	6.1	0.7	2.12	303.3	0.8868
	Great Chishill	ENG2	clay	7.3	2.1	5.40	257.0	0.9076
	Parçay Meslay	FR09B	loam	6.7	1.3	3.35	257.4	0.8992
	Tarascon Le Cayades	FR08	clay loam	7.6	0.9	1.84	204.9	0.8668
	Valerio Tomelini	IT09	silty clay	7.2	2.1	3.93	187.0	0.9110
	Vilobi D'Onyar	SPA01	sandy loam	6.3	0.8	2.34	292.0	0.8818
M-595721-01-1, [redacted] (2017)	Abington	AB	sandy loam	7.3	2.6	5.6	214.7	0.868
	Lamberton	LB	loam	5.6	2.6	8.6	331.9	0.844
	Lignieres	LN	sandy loam	5.7	0.8	2.9	363.1	0.888
	Muenster	MS	loamy sand	5.6	1.2	3.4	282.6	0.916
	Pikeville	PV	loamy sand	4.5	1.8	6.2	342.6	0.873
	Sarotti	SR	silty clay loam	6.9	1.4	2.6	185.6	0.851
						Arithmetic mean	-	**0.888**
						Geometric mean	**267.7**	-

*excluded from calculations, **checklist value used for geomean and average

M-01 (BAM; AE C653711)

Physico-Chemical Properties
Structural formula



Common name	M-01 (BAM; AE C653711)
Chemical name (IUPAC)	2,6-dichlorobenzamide
Molar mass	190.03 g mol^{-1}
Water solubility	2220 mg L^{-1} at 20°C ([redacted] 2014, M-505637-01-1)

Laboratory studies

The aerobic degradation of M-01 (BAM) in soil was investigated in the laboratory by M-234320-01-1, [redacted] (2002). In addition, M-01 was observed to form from fluopicolide in six studies (M-241049-01-1, [redacted] 2003a; M-241052-01-1, [redacted] 2003b; M-241051-01-1, [redacted] 2003c; M-550687-01-1, [redacted], 2016a; M-555570-01-1, [redacted], 2016b and M-685056-01-1, [redacted] 2019) and from M-03 in one study (M-241188-01-1, [redacted], 2003). A summary of the modelling endpoints derived for M-01 b (KCA 7.1.2.1.1/10, M-685680-01-1, [redacted]., 2020) is given in Table 9.2.5- 6.

The maximum observed occurrence in soil of M-01 in laboratory studies, expressed as a molar fraction of applied fluopicolide, was **48%** (M-555570-01-1, [redacted], 2016b).

Table 9.2.5- 6: Summary of modelling endpoints derived for M-01 (BAM) under laboratory conditions (after M-685680-01-1, [redacted] 2020)

Applied compound	Study	Soil	Model selected	DegT$_{50}$ un-normalised (d)	DegT$_{50}$ normalised to 20°C and pF2 (d)
Fluopicolide	M-201239-02-1 [redacted] 2003	Münster	SFO	1000[a]	1000[a]
		Sarotti	SFO	1000[a]	1000[a]
	M-241049-01-1 [redacted] 2003a	Abington (non-sterile)	SFO	1000[a]	1000[a]
	M-241052-01-1 [redacted] 2003b	Lamberton	SFO	1000[a]	1000[a]
	M-241051-01-1 [redacted] 2003c	Lamberton	SFO	1000[a]	1000[a]
		Pikeville	SFO	173.1	174.0
	M-550687-01-1 [redacted] 2016a	Albaro Marcomcini	SFO	417.3	417.3
		Great Chishill	SFO	1000[a]	1000[a]
		[redacted]	SFO	571.7	571.7
		Mas du Coq	SFO	472.2	422.2
		Parcey Meslay	SFO	908.4	908.4
		Vilobi d'Ònyar	SFO	323.9	323.9
	M-555570-01-1 [redacted] 2016b	Dollendorf II	SFO	159.7	159.7
		[redacted]	SFO	869.3	869.3
		[redacted]	SFO	556.2	556.2
		[redacted]	SFO	1000[a]	1000[a]
		Abington 2	SFO	175.6	175.6

Applied compound	Study	Soil	Model selected	$DegT_{50}$ un-normalised (d)	$DegT_{50}$ normalised to 20°C and pF2 (d)
	M-655056-01-1 [redacted] 2019	Lamberton	SFO	1000[a]	1000[a]
		Lignieres	SFO	1000[a]	1000[a]
		Münster	SFO	294.7	215.6
		Pikeville	SFO	135.9	113.3
		Sarotti 2	SFO	267.1	237.9
M-01	M-234320-01-1, [redacted] 2002	Bethany	SFO	1858.0	2077.6
		North Dakota	SFO	568.8	913.6
M-03	M-241188-01-1, [redacted] 2003	Münster	SFO	1000[a]	1000[a]
		Pikeville	SFO	1000[a]	1000[a]
				Geometric mean	569.5[d]

a – Conservative default value
b – Pseudo-SFO value based on slow phase of decline (calculated as ln(2)/k_2 and normalised if applicable)
c – Pseudo-SFO value based on fast phase of decline (calculated ln(2)/k_1 and normalised if applicable)
d – Geometric mean calculated of DT_{50} values from Lamberton soil prior to calculation of overall geometric mean.

Field Dissipation Studies

$DegT_{50}$ values for M-01 (BAM), normalised to 20°C and pF2, have been derived by M-685675-01-1, [redacted] (2020a) from five terrestrial field dissipation studies (M-650733-02-1, [redacted] 2019b). A summary of the modelling endpoint $DegT_{50}$ values derived for M-01 is given in Table 9.2.5- 7.

Table 9.2.5- 7: Summary of $DegT_{50}$ values (normalised to 20°C and pF2) derived for M-01 (BAM) from terrestrial field dissipation studies (after M-685675-01-1, [redacted] 2020a)

	Aerobic field conditions					
Soil type	**Location (country)**	**pH ($CaCl_2$)**	**Depth (cm)**	**St. (χ^2err) (%)**	**Method of calculation**	**$DegT_{50}$ (d) norm**
Silt loam	Burscheid (Germany)	5.9	0-120	14.68	SFO	94.0
Sandy loam	Lignieres de Touraine (France)	6.9	0-120	7.82	SFO	191.1
Clay loam	St.Etienne du Grès (France)	8.1	0-120	5.87	SFO	179.9
Clay loam	Albarodi Ronco all'Adige (Italy)	7.7	0-120	13.93	SFO	151.8
Sandy clay loam	Vilobi d'Onyar (Spain)	6.9	0-120	10.94	SFO	136.3
					Geometric mean	**146**

Degradation in Aerobic Soil: Overall $DegT_{50}$ value

Degradation half-lives for M-01 (BAM) derived from laboratory and field dissipation studies were compared using the EFSA $DegT_{50}$ Endpoint Selector (EFSA, 2014). This comparison indicated that the field $DegT_{50}$ values for M-01 were significantly shorter than the laboratory studies, therefore the geometric mean field $DegT_{50}$ value of **146 days** was used in the modelling for M-01 (BAM).

Degradation in Water-Sediment Systems

The degradation of fluopicolide in water sediment systems was investigated in the laboratory by M-241425-01-1, [redacted] (2003a). In this study, metabolite M-01 (BAM) was observed to form up to a maximum of **20.3%** of applied radioactivity.

Limited degradation was observed in the study by M-241425-01-1, [redacted] (2003a), and no reliable $DegT_{50}$ values were derived for M-01. A default $DegT_{50}$ value of **1000 days** was therefore used in the modelling to describe the degradation of M-01 in the water compartment, sediment compartment and total water sediment system.

Adsorption

The adsorption and desorption of M-01 (BAM) has been investigated in ten soils (M-235837-01-1, [redacted] 2001; M-224926-01-2, [redacted] 2003; M-686388-01-1, [redacted] 2020a). A summary of the sorption parameters derived for M-01 from these studies is given in Table 9.2.5- 8. A geometric mean K_{OC} value of **24.1 mL/g** was used for M-01 in the modelling.

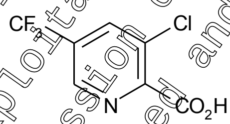
Table 9.2.5- 8: Summary of sorption parameters derived for M-01 (BAM)

Report reference	Soil	Soil Code	Texture	pH	OC [%]	K_f (mL/g)	K_{OC} (mL/g)
M-235837-01-1 [redacted] (2001)	Connecticut	RL-51	Sandy loam	4.8	0.9	0.241	26*
	North Dakota	RL-81	Sandy loam	7.7	5.7	1.761	31
	Florida	RM-014	Sand	6.3	1.4	0.529	38
	Washington	RM-019	Sand	4.9	4.2	1.890	45
	California	RM-022	Sandy clay loam	6.6	0.4	0.208	51
M-224926-01-2 [redacted] (2003)	Connecticut	RL-51	Sandy loam	4.8	0.9	0.359	39.9**
M-686388-01-1 [redacted] (2020a)	LUFA 2.1	2.1	sand	5.2	0.59	0.103	17.5
	LUFA 2.3	2.3	sandy loam	6.2	0.61	0.056	9.2
	LUFA 5M	5M	sandy loam	7.0	1.10	0.162	14.8
	LUFA 6S	6S	clay loam	7.3	1.78	0.265	14.9
	Frankenforst	FF	silt loam	6.9	2.4	0.418	17.4
						Geometric mean	**24.1**

*excluded from calculations, **recalculated and used for calculations

M-02 (PCA; AE C657188)

Physico-Chemical Properties
Structural formula



Common name M-02 (PCA; AE C657188)

Chemical name (IUPAC) 3-chloro-5-(trifluoromethyl)pyridine-2-carboxylic acid

Molar mass 225.56 g mol^{-1}

Degradation in Aerobic Soil

The aerobic degradation and metabolism of M-02 (PCA) in soil was investigated in the laboratory by M-219824-01-1, [redacted] (2003) and M-581364-01-1, [redacted] (2017). A summary of the modelling endpoints derived for M-02 (KCA 7.1.2.1.1/10, M-685680-01-1, [redacted] 2020) is given in Table 9.2.5- 9. A geometric mean $DegT_{50}$ value of **1.6 days** was used in the modelling for M-02 (PCA).

The maximum formation of metabolite M-02 in terrestrial field dissipation studies was **16.4%** (M-220477-02-1, [redacted] 2003).

Table 9.2.5- 9: Summary of modelling endpoints derived for M-02 (PCA) under laboratory conditions (after M-685680-01-1, [redacted]., 2020)

Applied compound	Study	Soil	Model selected	$DegT_{50}$ un-normalised (d)	$DegT_{50}$ normalised to 20°C and pF2 (d)
M-02 (PCA)	M-219824-01-1 [redacted] 2003	Abington	SFO	4.4	4.4
		Münster	SFO	3.5	3.5
		Sarotti	SFO	4.4	4.1
	M-581364-01-1 [redacted] 2017	Dollendorf	SFO	1.1	1.1
		[redacted]	SFO	1.1	0.9
		[redacted]	SFO	0.7	0.7
		[redacted]	SFO	0.7	0.7
				Geometric mean	**1.6**

Degradation in Water-Sediment Systems

The degradation of fluopicolide in water sediment systems was investigated in the laboratory by M-241425-01-1, [redacted] (2003a). In this study, metabolite M-02 (PCA) was observed to form up to a maximum of **8.2%** of applied radioactivity.

Limited degradation was observed in the study by M-241425-01-1, [redacted] (2003a), and no reliable $DegT_{50}$ values were derived for M-02. A default $DegT_{50}$ value of **1000 days** was used in the modelling to describe the degradation of M-02 in the water compartment, sediment compartment and total water sediment system.

Adsorption

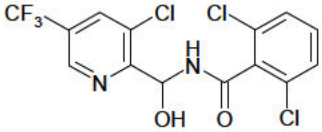
The adsorption and desorption of M-02 (PCA) has been investigated in eight soils (M-219828-01-1, [redacted], 2003; M-686387-01-1, [redacted] 2020b). A summary of the sorption parameters derived for M-02 from these studies is given in Table 9.2.5- 10. A geometric mean K_{OC} value of **5.7 mL/g** was used for M-02 in the modelling.

Table 9.2.5- 10: Summary of sorption parameters derived for M-02 (PCA)

Report reference	Soil	Soil Code	Texture	pH ($CaCl_2$)	OC [%]	K_f (mL/g)	K_{OC} (mL/g)
M-219828-01-1 [redacted] (2003)	Abington	03/06	Sandy loam	7.2	2.6	0.029	1.1
	Münster	03/07	Loamy sand	5.4	1.1	0.116	10.5
	Sarotti	03/10	Silt loam	7.5	1.3	0.082	6.3
M-686387-01-1 [redacted] (2020b)	LUFA 2.1	2.1	Sand	5.2	0.59	0.047	8.0
	LUFA 2.3	2.3	Sandy loam	6.2	0.61	0.038	6.2
	LUFA 5M	5M	Sandy loam	7.1	1.1	0.154	14.0
	LUFA 6S	6S	Clay loam	7.3	1.78	0.145	8.2
	Frankenforst	FF	Silt loam	6.9	2.4	0.059	2.5
						Geometric mean	**5.7**

M-03 (AE 0608000)

Physico-Chemical Properties
Structural formula



Common name	M-03 (AE 0608000)
Chemical name (IUPAC)	2,6-dichloro-N-{[3-chloro-5-(trifluoromethyl)yridine-2-yl](hydroxy)methyl}benzamide
Molar mass	399.58 g mol^{-1}

Degradation in Aerobic Soil

The aerobic degradation and metabolism of M-03 in soil was investigated in the laboratory by M-241188-01-1, [redacted] (2003) and M-565219-01-1, [redacted] (2016a). In addition, M-03 was observed to form from fluopicolide in three studies (M-201230-02-1, [redacted] 2003; M-241052-01-1, [redacted] 2003; M-655056-01-1, [redacted] 2019). A summary of the modelling endpoints for M-03 (KCA 7.1.2.1.1/10, M-685680-01-1, [redacted]., 2020b) is given in Table 9.2.5- 11.

A geometric mean $DegT_{50}$ value of **17.9 days** was used in the modelling for M-03, with an arithmetic mean molar formation fraction from fluopicolide of **0.53**. These values were derived from acidic soils (pH<6), where the degradation of M-03 occurs more slowly and provide a conservative assessment for M-03.

The maximum observed occurrence in soil of M-03 in laboratory studies was **10.6%** (M-201230-02-1, [redacted] 2003).

Table 9.2.5- 11: Summary of un-normalised $DegT_{50}$ values derived for M-03 under laboratory conditions (after [redacted] 2020b)

Applied compound	Study	Soil	Soil pH	Model selected	$DegT_{50}$ un-normalised (d)	$DegT_{50}$ normalised (d)	ffm from FLC
Fluopicolide	M-201230-02-1, [redacted] 2003	Münster	4.9	SFO	62.6	62.6	0.6086
	M-241052-01-1, [redacted] 2003	Lamberton	5.9	SFO	49.3	54.5	0.5933
	M-655056-01-1, [redacted] 2019	Pikeville	4.5	SFO	29.3	24.4	0.4009
M-03	M-241188-01-1, [redacted] 2003	Abington	7.2	SFO	0.1	0.1	-
		Münster	4.9	DFOP	1000[a]	1000[a]	-
		Pikeville	5.4	DFOP	2.7[b]	2.2[b]	-
		Sarotti	7.1	SFO	0.1	0.08	-
	M-565219-01-1, [redacted] 2016	Brierlow (BL)	5.3	SFO	2.5	2.5	-
		[redacted]	6.0	SFO	0.9	0.9	-

Applied compound	Study	Soil	Soil pH	Model selected	$DegT_{50}$ un-normalised (d)	$DegT_{50}$ normalised (d)	ffm from FLC
Geometric mean (pH <6)						17.9[c]	-
Arithmetic mean (pH <6)						-	0.53
Geomtric mean (soil pH ≥6)						0.19	-
Arithmetic mean (pH ≥6)						-	

a – DFOP k_2 parameter fixed to conservative default value
b – Pseudo-SFO DT_{50} value derived as $DT_{90}/3.32$ (and normalised if applicable)
c – Geometric mean calculated for Münster soils prior to calculation of overall value

Degradation in Water-Sediment Systems

Metabolite M-03 has not been observed to form in water sediment systems; however, an aqueous hydrolysis study has been performed for this compound (M-236241-01-2, [redacted] 2004). The half-life of M-03 in sterile, aqueous buffered solutions ranged from 8.4 minutes at pH 8.1 to 45.5 hours at pH 5.1. A DT_{50} value of **1.9 days** (i.e. 45.5 hours) was used in the modelling to describe the degradation of M-03 in the water compartment and the total water sediment system. The DT_{50} value for M-03 in the sediment compartment was set to a default value of **1000 days**.

The maximum occurrence of M-03 in water sediment systems was set to **0.001%**, as the STEP1-2 calculator requires an input greater than zero for this parameter.

Plant uptake

The plant uptake factor for M-03 was set to a conservative default value of 0. As the metabolite M-03 (AE 0608000) has not been detected in the plants from rotational crop studies, the uptake factor was set to 0.

Foliar Wash-off and Canopy Degradation

Plant wash-off was set to the default value of **50 m^{-1}**, and the canopy degradation DT_{50} value was set to the default value of **10 days** (FOCUS, 2014).

Adsorption

The adsorption and desorption of M-03 has been investigated in three soils by M-221107-01-2, [redacted] (2003). A summary of the sorption parameters derived for M-03 is given in Table 9.2.5- 12. A geometric mean K_{OC} value of **106.9 mL/g**, corresponding to a K_{OM} value of 62.0 mL/g ($K_{OM} = K_{OC} \div 1.724$), was used for M-03 in the modelling, with an arithmetic mean 1/n value of **0.971**.

Table 9.2.5- 12: Summary of sorption parameters derived for M-03

Report reference	Soil	Soil Code	Texture	pH (CaCl₂)	OC [%]	K_f (mL/g)	K_{OC} (mL/g)	1/n
M-221107-01-2 [redacted] (2003)	Ingleby	02/03	Sandy loam	4.1	3.5	2.86	82	0.961
	Huntlosen	03/04	Loamy sand	4.7	1.7	2.26	133	1.012
	Munster	03/07	Loamy sand	5.4	1.1	1.23	112	0.939
Geometric mean							106.9	-
Arithmetic mean							-	0.971

II. Results and Discussion

Modelling reports utilising the core info document should have the substance data presented as shown in the following tables.

Table 9.2.5- 13: Substance parameters used at FOCUS Steps 1-2 level

Parameter	Unit	Fluopicolide	M-01 (AE C653711)	M-02 (AE C657188)	M-03 (AE 0608000)
Molar mass	(g/mol)	383.59	190.03	225.56	399.58
Water solubility	(mg/L)	2.8	1830	9721	10
Koc	(mL/g)	267.7	24.1	5.7	106.9
Degradation					
Soil	(days)	182	146	1.6	17.9
Total system	(days)	1000	1000	1000	1.9
Water	(days)	1000	1000	1000	1.9
Sediment	(days)	1000	1000	1000	1000
Max occurrence					
Water / sediment	(%)	100	20.3	8.2	0.001
Soil	(%)	100	48	16.4	40.6

Table 9.2.5- 14: Substance parameters used for fluopicolide and its metabolite M-03 (AE 0608000) at Step 3/4 level

Parameter	Unit	Parent	Metabolite
Substance		Fluopicolide	M-03 (AE 0608000)
SWASH code		FLC	M03
General			
Molar mass	(g/mol)	383.59	399.58
Water solubility (temp.)	(mg/L)	2.8 (20 °C)	10 (20 °C)
Vapour pressure (temp.)	(Pa)	3.03E-07 (20 °C)	0 (20 °C)
Crop processes			
Coefficient for uptake by plant (TSCF)	(-)	0.5	0
Wash-off factor	(1/m)	50	50
Sorption			
K_{OC}	(mL/g)	267.74	106.89
K_{OM}	(mL/g)	155.3	62
Freundlich exponent (1/n)	(-)	0.888	0.971
Transformation			
DT_{50} in soil	(days)	182	17.9
temperature	(°C)	20	20
moisture content (pF)	(log(cm))	2	2
formation fraction in soil	(-)	-	0.53
DT_{50} in water	(days)	1000	1.9
temperature	(°C)	20	20
formation fraction in water	(-)	-	-
DT_{50} in sediment	(days)	1000	1000
temperature	(°C)	20	20
formation fraction in sediment	(-)	-	-
DT_{50} on canopy	(days)	10	10
Exponent for the effect of moisture			
PRZM and TOXSWA (Walker exp.)	(-)	0.7	0.7
MACRO (calibrated value)	(-)	0.49	0.49
Effect of temperature			
TOXSWA (molar activation energy)	(kJ/mol)	65.4	65.4
MACRO (effect of temperature)	(1/K)	0.0948	0.0948
PRZM (Q_{10})	(-)	2.58	2.58

III. Conclusion

For the surface water and sediment risk assessment of fluopicolide and its metabolites M-01, M-02, and M-03 the input parameters presented in this summary should be used in all calculations.

Assessment and conclusion by applicant:

This core modelling report was conducted according to FOCUS Degradation Kinetics (2006, 2014) and is considered valid to assess trigger and modelling endpoints for fluopicolide and its metabolites in surface water and sediment under laboratory conditions.

Data Point:	KCP 9.2.5/05
Report Author:	[redacted]
Report Year:	2020
Report Title:	Fluopicolide (FLC) and metabolites: PECsw,sed FOCUS EUR - Use in potatoes in Europe
Report No:	EnSa-20-0399
Document No:	M-687153-01-1
Guideline(s) followed in study:	not applicable
Deviations from current test guideline:	None
Previous evaluation:	No, not previously submitted
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

Executive Summary

Predicted environmental concentrations of the fungicide fluopicolide and metabolites in surface water (PECsw) and sediment (PECsed) were calculated for the use in Europe, employing the tiered FOCUS Surface Water (SW) approach (FOCUS 2001, 2015). All relevant entry routes of a compound into surface water (principally a combination of spray drift and runoff/erosion or drain flow) were considered in these calculations.

The uses of fluopicolide in potatoes were assessed according to the Good Agricultural Practice (GAP) in Europe.

I. Materials and Methods

Predicted environmental concentrations of the fungicide fluopicolide and its metabolites in surface water (PECsw) and sediment (PECsed) were calculated for the use in Europe, employing the tiered FOCUS Surface Water (SW) approach (FOCUS 2001, 2015). All relevant entry routes of a compound into surface water (principally a combination of spray drift and runoff/erosion or drain flow) were considered in these calculations.

The uses of fluopicolide in relevant crops were assessed according to the Good Agricultural Practice (GAP) in Europe. Intended GAPs for the use of fluopicolide in Europe were analysed and consolidated according to regulatory and modelling requirements. As a result, one or more uses may be covered by a single modelling GAP row (DGR). The translation of the regulatory GAP for modelling purposes is shown in Table 9.2.5-15

Table 9.2.5-15: GAP translation for modelling purposes

GAP group ID	GAP group name (DGR) and use IDs	Covered crop(s)	Growth stage	Max. apps	Interval (days)	Rate (kg a.s./ha)
DGR I	potatoes 4X	potatoes	BBCH 21 - 89	4	7	4 × 0.1
DGR II	potatoes 3X	potatoes	BBCH 21 - 89	3	7	3 × 0.1
DGR III	potatoes 2X	potatoes	BBCH 21 - 89	2	7	2 × 0.1
DGR IV	potatoes 1X	potatoes	BBCH 21 - 89	1	-	1 × 0.1

The implementation of the modelling GAP (Table 9.2.5-15) at Steps 1-2 level is shown in Table 9.2.5-16. One or more calculations (modelling tasks, PMT) are necessary to fully cover the use assessed. The number and name of the respective DGR is provided for easier reference.

Table 9.2.5- 16: FOCUS Steps 1-2 specific data for the GAPs assessed

Run IDs (DGR / PMT)	GAP group name (DGR)	Assessment name (PMT)	FOCUS crop (crop group)	Season	Crop cover
DGR I PMT I	potatoes 4X	Early	potatoes (arable crops)	spring (Mar. - May)	average crop cover
DGR I PMT II	potatoes 4X	Late	potatoes (arable crops)	summer (Jun. - Sep.)	full canopy
DGR II PMT III	potatoes 3X	Early	potatoes (arable crops)	spring (Mar. - May)	average crop cover
DGR II PMT IV	potatoes 3X	Late	potatoes (arable crops)	summer (Jun. - Sep.)	full canopy
DGR III PMT V	potatoes 2X	Early	potatoes (arable crops)	spring (Mar. - May)	average crop cover
DGR III PMT VI	potatoes 2X	Late	potatoes (arable crops)	summer (Jun. - Sep.)	full canopy
DGR IV PMT VII	potatoes 1X	Early	potatoes (arable crops)	spring (Mar. - May)	average crop cover
DGR IV PMT VIII	potatoes 1X	Late	potatoes (arable crops)	summer (Jun. - Sep.)	full canopy

This section provides the implementation of the modelling GAP (Table 9.2.5-15) at Step 3 level. Also, here one or more calculations (modelling tasks, PMT) are necessary to fully cover the use assessed. The number and name of the respective DGR is provided for easier reference.

Please note that PMTs at Steps 1-2 and Step 3 do not necessarily fully correspond to each other due to inherent differences in the models.

The application dates for this assessment were set with the help of the tool AppDate (Klein 2018), which proposes dates for specific crop stages (given as BBCH code) based on the crop development as defined in the FOCUS model scenarios for groundwater and surface water.

The summary of all Step 3 PMTs is provided in Table 9.2.5- 17. The detailed information on individual uses is given in subsections that follow Table 9.2.5- 18 to Table 9.2.5- 33.

Table 9.2.5- 17: Overview of FOCUS Step 3 assessments

Run IDs (DGR / PMT)	GAP group name (DGR)	Assessment name (PMT)	FOCUS crop (crop group)
DGR I PMT I	Potatoes 4X	Early	Potatoes (arable crops)
DGR I PMT II	Potatoes 4X	Late	Potatoes (arable crops)

Run IDs (DGR / PMT)	GAP group name (DGR)	Assessment name (PMT)	FOCUS crop (crop group)
DGR II PMT III	Potatoes 3X	Early	Potatoes (arable crops)
DGR II PMT IV	Potatoes 3X	Late	Potatoes (arable crops)
DGR III PMT V	Potatoes 2X	Early	Potatoes (arable crops)
DGR III PMT VI	Potatoes 2X	Late	Potatoes (arable crops)
DGR IV PMT VII	Potatoes 1X	Early	Potatoes (arable crops)
DGR IV PMT VIII	Potatoes 1X	Late	Potatoes (arable crops)

GAP group name potatoes 4X, assessment name Early

Table 9.2.5- 18: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Early	D3 Ditch D4 Pond/Stream D6 Ditch D6 Ditch (2nd) R1 Pond/Stream R2 Stream R3 Stream	30-May - 20-Jul 17-Jun - 07-Aug 24-Apr - 14-Jun 21-Aug - 11-Oct 20-May - 10-Jul 06-Apr - 27-May 24-Apr - 14-Jun

Table 9.2.5- 19: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR I / PMT I Potatoes 4X Early
FOCUS model crop (crop group)	Potatoes (arable crops)
Use pattern	4×0.1 kg a.s./ha, 7d int.
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	51 days for all scenarios (min = 51 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	30-May/20-Jul (150/201)	14-Jun 26-Jun 08-Jul 15-Jul	R1 Pond/Stream	20-May/10-Jul (140/191)	31-May 12-Jun 24-Jun 04-Jul
D4 Pond/Stream	17-Jun/07-Aug (168/219)	21-Jun 28-Jun 05-Jul 18-Jul	R2 Stream	06-Apr/27-May (96/147)	22-Apr 29-Apr 07-May 20-May
D6 Ditch	24-Apr/14-Jun (114/165)	24-Apr 03-May 17-May 24-May	R3 Stream	24-Apr/14-Jun (114/165)	24-Apr 18-May 01-Jun 11-Jun
D6 Ditch (2nd)	21-Aug/11-Oct (233/284)	23-Aug 04-Sep 13-Sep 21-Sep			

<u>GAP group name potatoes 4X, assessment name Late</u>

Table 9.2.5- 20: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Late	D3 Ditch D4 Pond/Stream D6 Ditch D6 Ditch (2nd) R1 Pond/Stream R2 Stream R3 Stream	24-Jul - 13-Sep 02-Aug - 22-Sep 23-May - 13-Jul 03-Oct - 23-Nov 17-Jul - 06-Sep 24-Apr - 14-Jun 09-Jul - 29-Aug

Table 9.2.5- 21: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR I / PMT II Potatoes 4X Late
FOCUS model crop (crop group)	Potatoes (arable crops)
Use pattern	4×0.1 kg a.s./ha, 7d int.
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	51 days for all scenarios (min = 51 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	24-Jul/13-Sep (205/256)	24-Jul 03-Aug 18-Aug 26-Aug	R1 Pond/Stream		22-Jul 29-Jul 20-Aug 02-Sep
D4 Pond/Stream	02-Aug/22-Sep (214/265)	27-Aug 04-Sep 11-Sep 18-Sep	R2 Stream		24-Apr 07-May 20-May 27-May
D6 Ditch	23-May/13-Jul (143/194)	24-May 04-Jun 23-Jun 05-Jul	R3 Stream		13-Jul 20-Jul 27-Jul 04-Aug
D6 Ditch (2nd)	03-Oct/23-Nov (276/327)	05-Oct 14-Oct 22-Oct 31-Oct			

GAP group name potatoes 3X, assessment name Early

Table 9.2.5- 22: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Early	D3 Ditch D4 Pond/Stream D6 Ditch D6 Ditch (2nd) R1 Pond/Stream R2 Stream R3 Stream	30-May - 20-Jul 17-Jun - 07-Aug 24-Apr - 14-Jun 21-Aug - 11-Oct 20-May - 10-Jul 06-Apr - 27-May 24-Apr - 14-Jun

Table 9.2.5- 23: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**			DGR II / PMT III Potatoes 3X Early		
FOCUS model crop (crop group)			Potatoes (arable crops)		
Use pattern			3×0.1 kg a.s./ha, 7d int.		
Appl. method (Run-off CAM, depth inc.)			Ground spray (2 - appln foliar linear, 4 cm)		
PAT start date (relative to crop event or absolute)			Absolute		
PAT window range			51 days for all scenarios (min = 44 days)		
Drainage scenarios	**PAT start/end date (Julian day)**	**Application date**	**Runoff scenarios**	**PAT start/end date (Julian day)**	**Application date**
D3 Ditch	30-May/20-Jul (150/201)	14-Jun 26-Jun 08-Jul	R1 Pond/Stream	20-May/10-Jul (140/191)	31-May 12-Jun 24-Jun
D4 Pond/Stream	17-Jun/07-Aug (168/219)	21-Jun 28-Jun 05-Jul	R2 Stream	06-Apr/27-May (96/147)	22-Apr 29-Apr 07-May
D6 Ditch	24-Apr/14-Jun (114/165)	24-Apr 03-May 17-May	R3 Stream	24-Apr/14-Jun (114/165)	24-Apr 18-May 01-Jun
D6 Ditch (2nd)	21-Aug/11-Oct (233/284)	23-Aug 04-Sep 13-Sep			

GAP group name potatoes 3X, assessment name Late

Table 9.2.5- 24: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	**Scenario**	**Application window used in modelling**
Late	D3 Ditch D4 Pond/Stream D6 Ditch D6 Ditch (2nd) R1 Pond/Stream R2 Stream R3 Stream	24-Jul - 13-Sep 02-Aug - 22-Sep 23-May - 13-Jul 03-Oct - 23-Nov 17-Jul - 06-Sep 24-Apr - 14-Jun 09-Jul - 29-Aug

Table 9.2.5- 25: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR II / PMT IV Potatoes 3X Late
FOCUS model crop (crop group)	Potatoes (arable crops)
Use pattern	3×0.1 kg a.s./ha, 7d int.
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	51 days for all scenarios (min = 44 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	24-Jul/13-Sep (205/256)	24-Jul 03-Aug 18-Aug	R1 Pond/Stream	17-Jul/06-Sep (198/249)	22-Jul 29-Jul 20-Aug
D4 Pond/Stream	02-Aug/22-Sep (214/265)	27-Aug 10-Sep 18-Sep	R2 Stream	24-Apr/14-Jun (114/165)	24-Apr 07-May 20-May
D6 Ditch	23-May/13-Jul (143/194)	24-May 04-Jun 23-Jun	R3 Stream	09-Jul/29-Aug (190/241)	13-Jul 20-Jul 27-Jul
D6 Ditch (2nd)	03-Oct/23-Nov (276/327)	05-Oct 14-Oct 22-Oct			

GAP group name potatoes 2X, assessment name Early

Table 9.2.5- 26: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Early	D3 Ditch D4 Pond/Stream D6 Ditch D6 Ditch (2nd) R1 Pond/Stream R2 Stream R3 Stream	30-May - 20-Jul 17-Jun - 07-Aug 24-Apr - 14-Jun 21-Aug - 11-Oct 20-May - 10-Jul 06-Apr - 27-May 24-Apr - 14-Jun

Table 9.2.5- 27: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR III / PMT V Potatoes 2X Early
FOCUS model crop (crop group)	Potatoes (arable crops)
Use pattern	2×0.1 kg a.s./ha, 7d int.
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	51 days for all scenarios (min = 37 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	30-May/20-Jul (150/201)	14-Jun 26-Jun	R1 Pond/Stream	20-May/10-Jul (140/191)	13-Jun 05-Jul
D4 Pond/Stream	17-Jun/07-Aug (168/219)	21-Jun 28-Jun	R2 Stream	06-Apr/27-May (96/147)	22-Apr 29-Apr
D6 Ditch	24-Apr/14-Jun (114/165)	24-Apr 03-May	R3 Stream	24-Apr/14-Jun (114/165)	24-Apr 18-May
D6 Ditch (2nd)	21-Aug/11-Oct (233/284)	23-Aug 04-Sep			

GAP group name potatoes 2X, assessment name Late

Table 9.2.5- 28: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Late	D3 Ditch D4 Pond/Stream D6 Ditch D6 Ditch (2nd) R1 Pond/Stream R2 Stream R3 Stream	24-Jul - 13-Sep 02-Aug - 22-Sep 23-May - 13-Jul 03-Oct - 23-Nov 17-Jul - 06-Sep 24-Apr - 14-Jun 09-Jul - 29-Aug

Table 9.2.5- 29: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR III / PMT VI Potatoes 2X Late
FOCUS model crop (crop group)	Potatoes (arable crops)
Use pattern	2×0.1 kg a.s./ha, 7d int.
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	51 days for all scenarios (min = 37 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	24-Jul/13-Sep (205/256)	24-Jul 03-Aug	R1 Pond/Stream	17-Jul/06-Sep (198/249)	28-Jul 20-Aug
D4 Pond/Stream	02-Aug/22-Sep (214/265)	27-Aug 10-Sep	R2 Stream	24-Apr/14-Jun (114/165)	24-Apr 07-May
D6 Ditch	23-May/13-Jul (143/194)	24-May 04-Jun	R3 Stream	09-Jul/29-Aug (190/241)	13-Jul 20-Jul
D6 Ditch (2nd)	03-Oct/23-Nov (276/327)	05-Oct 14-Oct			

<u>GAP group name potatoes 1X, assessment name Early</u>

Table 9.2.5- 30: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Early	D3 Ditch D4 Pond/Stream D6 Ditch D6 Ditch (2nd) R1 Pond/Stream R2 Stream R3 Stream	30-May - 20-Jul 17-Jun - 07-Aug 24-Apr - 14-Jun 21-Aug - 11-Oct 20-May - 10-Jul 06-Apr - 27-May 24-Apr - 14-Jun

Table 9.2.5- 31: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR IV / PMT VII Potatoes 1X Early
FOCUS model crop (crop group)	Potatoes (arable crops)
Use pattern	0.1 kg a.s./ha
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	51 days for all scenarios (min = 30 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	30-May/20-Jul (150/201)	14-Jun	R1 Pond/Stream	20-May/10-Jul (140/191)	13-Jun
D4 Pond/Stream	17-Jun/07-Aug (168/219)	21-Jun	R2 Stream	06-Apr/27-May (96/147)	22-Apr
D6 Ditch	24-Apr/14-Jun (114/165)	24-Apr	R3 Stream	24-Apr/14-Jun (114/165)	24-Apr
D6 Ditch (2nd)	21-Aug/11-Oct (233/284)	23-Aug			

GAP group name potatoes 1X, assessment name Late

Table 9.2.5- 32: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Late	D3 Ditch D4 Pond/Stream D6 Ditch D6 Ditch (2nd) R1 Pond/Stream R2 Stream R3 Stream	24-Jul - 13-Sep 02-Aug - 22-Sep 23-May - 13-Jul 03-Oct - 23-Nov 17-Jul - 06-Sep 24-Apr - 14-Jun 09-Jul - 29-Aug

Table 9.2.5- 33: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR IV / PMT VIII Potatoes 1X Late
FOCUS model crop (crop group)	Potatoes (arable crops)
Use pattern	0.1 kg a.s./ha
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	51 days for all scenarios (min = 30 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	24-Jul/13-Sep (205/256)	24-Jul	R1 Pond/Stream	17-Jul/06-Sep (198/249)	28-Jul
D4 Pond/Stream	02-Aug/22-Sep (214/265)	27-Aug	R2 Stream	24-Apr/14-Jun (114/165)	24-Apr
D6 Ditch	23-May/13-Jul (143/194)	24-May	R3 Stream	09-Jul/29-Aug (190/241)	13-Jul
D6 Ditch (2nd)	03-Oct/23-Nov (276/327)	05-Oct			

Steps 1-2 calculations were performed according to formulas implemented in FOCUS STEPS 1+2 version 3.2.

Step 3 calculations were performed using the FOCUS SWASH 5.3 suite, including
FOCUS PRZM 4.3.1
FOCUS MACRO 5.5.4
FOCUS TOXSWA 5.5.3

Refinement at Step 4 level was performed with the SWAN tool, version 5.0.1.

Standard procedures and settings were used for Steps 1-2 and 3 assessments. At Step 4 the following mitigation settings were used Table 9.2.5- 34 and Table 9.2.5- 35.

Table 9.2.5- 34: Mitigation approaches used

Buffer length	Mitigation type	Drift reduction nozzles
0 m 5 m 10 m 15 m 20 m	Spray drift Spray drift Spray drift & RunOff Spray drift & RunOff Spray drift & RunOff	0 %, 50 %, 75 %, 90 %

Table 9.2.5- 35: Runoff mitigation parameters used for the assessment

Fractional reduction in:	10 m, 15 m	20 m
Runoff: Volume	0.60	0.80
Flux	0.60	0.80
Erosion: Mass	0.85	0.95
Flux	0.85	0.95

Substance related parameters which have been used for fluopicolide and its metabolites M-01 (AE C653711), M-02 (AE C657188) and M-03 (AE 0608000) and whose derivation is described in detail in the core modelling document KCP 9.2.5/04 have been used in the calculations at FOCUS SW Steps 1-2 level are summarised in Table 9.2.5- 36 and at Step 3/4 level in Table 9.2.5- 37.

Table 9.2.5- 36: Substance parameters used at FOCUS Steps 1-2 level

Parameter	Unit	Fluopicolide	M-01 (AE C653711)	M-02 (AE C657188)	M-03 (AE 0608000)
Molar mass	(g/mol)	383.59	190.03	225.56	399.58
Water solubility	(mg/L)	2.8	1830	9721	10
Koc	(mL/g)	267.7	24.1	5.7	106.9
Degradation					
Soil	(days)	182	146	1.6	17.9
Total system	(days)	1000	1000	1000	1.9
Water	(days)	1000	1000	1000	1.9
Sediment	(days)	1000	1000	1000	1000
Max occurrence					
Water / sediment	(%)	100	20.3	8.2	0.001
Soil	(%)	100	48	16.4	10.6

Table 9.2.5- 37: Substance parameters used for fluopicolide and its metabolite M-03 (AE 0608000) at Step 3/4 level

Parameter	Unit	Parent	Metabolite
Substance		Fluopicolide	M-03 (AE 0608000)
SWASH code		FLC	M03
General			
Molar mass	(g/mol)	383.59	399.58
Water solubility (temp.)	(mg/L)	2.8 (20 °C)	10 (20 °C)
Vapour pressure (temp.)	(Pa)	3.03E-07 (20 °C)	0 (20 °C)
Crop processes			
Coefficient for uptake by plant (TSCF)	(-)	0.5	0
Wash-off factor	(1/m)	50	50
Sorption			
K_{OC}	(mL/g)	267.74	106.89
K_{OM}	(mL/g)	155.3	62
Freundlich exponent ($^1/_n$)	(-)	0.888	0.971
Transformation			
DT50 in soil	(days)	182	17.9
temperature	(°C)	20	20
moisture content (pF)	(log(cm))	2	2
formation fraction in soil	(-)	-	0.53
DT50 in water	(days)	1000	1.9
temperature	(°C)	20	20
formation fraction in water	(-)	-	-
DT50 in sediment	(days)	1000	1000
temperature	(°C)	20	20
formation fraction in sediment	(-)	-	-
DT50 on canopy	(days)	10	10

Parameter	Unit	Parent	Metabolite
Exponent for the effect of moisture			
PRZM and TOXSWA (Walker exp.)	(-)	0.7	0.7
MACRO (calibrated value)	(-)	0.49	0.49
Effect of temperature			
TOXSWA (molar activation energy)	(kJ/mol)	65.4	65.4
MACRO (effect of temperature)	(1/K)	0.0948	0.0948
PRZM (Q_{10})	(-)	2.58	2.58

II. Results and Discussion

The PEC values were calculated for fluopicolide and its metabolites M-01 (AE C653711), M-02 (AE C657188) and M-03 (AE 0608000) according to the equations implemented in the "STEPS 1-2 in FOCUS" calculator Table 9.2.5- 38 to Table 9.2.5- 69.

__Parent substance fluopicolide__

__Potatoes 4X - Early – 4 × 100g a.s./ha, 7d int. (DGR I / PMT I)__

Table 9.2.5- 38: FOCUS Steps 1-2 PECsw and PECsed for fluopicolide, GAP group name potatoes 4X, assessment name Early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	102	RunOff	101	270
Step 2					
Northern Europe	Mar. - May(Spring)	11.3	RunOff	11.1	29.7
Southern Europe	Mar. - May(Spring)	20.6	RunOff	20.4	54.6

* Single applications are marked.
** TWA interval as required by ecotox

__Potatoes 4X - Late – 4 × 100g a.s./ha, 7d int. (DGR I / PMT II)__

Table 9.2.5- 39: FOCUS Steps 1-2 PECsw and PECsed for fluopicolide, GAP group name potatoes 4X, assessment name Late (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	102	RunOff	101	270
Step 2					
Northern Europe	Jun. - Sep.(Summer)	7.57	RunOff	7.39	19.8
Southern Europe	Jun. - Sep.(Summer)	10.4	RunOff	10.2	27.2

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 3X - Early – 3 × 100g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 40: FOCUS Steps 1-2 PECsw and PECsed for fluopicolide, GAP group name potatoes 3X, assessment name Early (DGR II / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	76.5	RunOff	75.6	203
Step 2					
Northern Europe	Mar. - May(Spring)	8.69	RunOff	8.54	22.9
Southern Europe	Mar. - May(Spring)	15.8	RunOff	15.6	41.8

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 3X - Late – 3 × 100g a.s./ha, 7d int. (DGR II / PMT IV)

Table 9.2.5- 41: FOCUS Steps 1-2 PECsw and PECsed for fluopicolide, GAP group name potatoes 3X, assessment name Late (DGR II / PMT IV)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	76.5	RunOff	75.6	203
Step 2					
Northern Europe	Jun. - Sep.(Summer)	5.86	RunOff	5.72	15.3
Southern Europe	Jun. - Sep.(Summer)	7.98	RunOff	7.83	21.0

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 2X - Early – 2 × 100g a.s./ha, 7d int. (DGR III / PMT V)

Table 9.2.5- 42: FOCUS Steps 1-2 PECsw and PECsed for fluopicolide, GAP group name potatoes 2X, assessment name Early (DGR III / PMT V)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	51.0	RunOff	50.4	135
Step 2					
Northern Europe	Mar. - May(Spring)	6.08	RunOff	5.96	16.0
Southern Europe	Mar. - May(Spring)	10.9	RunOff	10.7	28.7

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 2X - Late – 2 × 100g a.s./ha, 7d int. (DGR III / PMT VI)

Table 9.2.5- 43: FOCUS Steps 1-2 PECsw and PECsed for fluopicolide, GAP group name potatoes 2X, assessment name Late (DGR III / PMT VI)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	51.0	RunOff	50.4	135
Step 2					
Northern Europe	Jun. - Sep.(Summer)	4.17	RunOff	4.06	10.9
Southern Europe	Jun. - Sep.(Summer)	5.60	RunOff	5.48	14.7

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 1X - Early – 1 × 100g a.s./ha (DGR IV / PMT VII)

Table 9.2.5- 44: FOCUS Steps 1-2 PECsw and PECsed for fluopicolide, GAP group name potatoes 1X, assessment name Early (DGR IV / PMT VII)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	25.5	RunOff	25.2	67.5
Step 2					
Northern Europe	Mar. - May(Spring)	3.16 *	RunOff	3.09	8.28 *
Southern Europe	Mar. - May(Spring)	5.58 *	RunOff	5.51	14.8 *

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 1X - Late – 1 × 100g a.s./ha (DGR IV / PMT VIII)

Table 9.2.5- 45: FOCUS Steps 1-2 PECsw and PECsed for fluopicolide, GAP group name potatoes 1X, assessment name Late (DGR IV / PMT VIII)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	25.5	RunOff	25.2	67.5
Step 2					
Northern Europe	Jun. - Sep.(Summer)	2.19 *	RunOff	2.13	5.69 *
Southern Europe	Jun. - Sep.(Summer)	2.92 *	RunOff	2.85	7.63 *

* Single applications are marked.
** TWA interval as required by ecotox

Metabolite M-01 (AE C653711)

Potatoes 4X - Early – 4 × 100g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 46: FOCUS Steps 1-2 PECsw and PECsed for M-01 (AE C653711), GAP group name potatoes 4X, assessment name Early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	44.1		44.0	10.6
Step 2					
Northern Europe	Mar. - May(Spring)	4.34	-	4.33	1.04
Southern Europe	Mar. - May(Spring)	8.44	-	8.42	2.03

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 4X - Late – 4 × 100g a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 47: FOCUS Steps 1-2 PECsw and PECsed for M-01 (AE C653711), GAP group name potatoes 4X, assessment name Late (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	44.1	-	44.0	10.6
Step 2					
Northern Europe	Jun. - Sep.(Summer)	2.70	-	2.69	0.650
Southern Europe	Jun. - Sep.(Summer)	3.93	-	3.92	0.946

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 3X - Early – 3 × 100g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 48: FOCUS Steps 1-2 PECsw and PECsed for M-01 (AE C653711), GAP group name potatoes 3X, assessment name Early (DGR II / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	33.1	-	33.0	7.96
Step 2					
Northern Europe	Mar. - May(Spring)	3.32	-	3.31	0.799
Southern Europe	Mar. - May(Spring)	6.44	-	6.42	1.55

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 3X - Late – 3 × 100g a.s./ha, 7d int. (DGR II / PMT IV)

Table 9.2.5- 49: FOCUS Steps 1-2 PECsw and PECsed for M-01 (AE C653711), GAP group name potatoes 3X, assessment name Late (DGR II / PMT IV)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	33.1	-	33.0	7.96
Step 2					
Northern Europe	Jun. - Sep.(Summer)	2.07	-	2.06	0.498
Southern Europe	Jun. - Sep.(Summer)	3.01	-	3.00	0.724

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 2X - Early – 2 × 100g a.s./ha, 7d int. (DGR III / PMT V)

Table 9.2.5- 50: FOCUS Steps 1-2 PECsw and PECsed for M-01 (AE C653711), GAP group name potatoes 2X, assessment name Early (DGR III / PMT V)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	22.0	-	22.0	5.31
Step 2					
Northern Europe	Mar. - May(Spring)	2.27	-	2.27	0.547
Southern Europe	Mar. - May(Spring)	4.39	-	4.37	1.06

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 2X - Late – 2 × 100g a.s./ha, 7d int. (DGR III / PMT VI)

Table 9.2.5- 51: FOCUS Steps 1-2 PECsw and PECsed for M-01 (AE C653711), GAP group name potatoes 2X, assessment name Late (DGR III / PMT VI)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	22.0	-	22.0	5.31
Step 2					
Northern Europe	Jun. - Sep.(Summer)	1.43	-	1.42	0.343
Southern Europe	Jun. - Sep.(Summer)	2.06	-	2.06	0.496

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 1X - Early – 1 × 100g a.s./ha (DGR IV / PMT VII)

Table 9.2.5- 52: FOCUS Steps 1-2 PECsw and PECsed for M-01 (AE C653711), GAP group name potatoes 1X, assessment name Early (DGR IV / PMT VII)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	11.0	-	11.0	2.65
Step 2					
Northern Europe	Mar. - May(Spring)	1.16 *	-	1.16	0.280 *
Southern Europe	Mar. - May(Spring)	2.24 *	-	2.23	0.539 *

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 1X - Late – 1 × 100g a.s./ha (DGR IV / PMT VIII)

Table 9.2.5- 53: FOCUS Steps 1-2 PECsw and PECsed for M-01 (AE C653711), GAP group name potatoes 1X, assessment name Late (DGR IV / PMT VIII)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	11.0	-	11.0	2.65
Step 2					
Northern Europe	Jun. - Sep.(Summer)	0.734 *	-	0.732	0.177 *
Southern Europe	Jun. - Sep.(Summer)	1.06 *	-	1.05	0.254 *

* Single applications are marked.
** TWA interval as required by ecotox

Metabolite M-02 (AE C657188)

Potatoes 4X - Early – 4 × 100g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 54: FOCUS Steps 1-2 PECsw and PECsed for M-02 (AE C657188), GAP group name potatoes 4X, assessment name Early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	19.3	-	19.3	1.10
Step 2					
Northern Europe	Mar. - May(Spring)	0.781	-	0.779	0.045
Southern Europe	Mar. - May(Spring)	1.44	-	1.44	0.082

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 4X - Late – 4 × 100g a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 55: FOCUS Steps 1-2 PECsw and PECsed for M-02 (AE C657188), GAP group name potatoes 4X, assessment name Late (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	19.3	-	19.3	1.10
Step 2					
Northern Europe	Jun. - Sep.(Summer)	0.516	-	0.514	0.029
Southern Europe	Jun. - Sep.(Summer)	0.715	-	0.713	0.041

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 3X - Early – 3 × 100g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 56: FOCUS Steps 1-2 PECsw and PECsed for M-02 (AE C657188), GAP group name potatoes 3X, assessment name Early (DGR II / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	14.5	-	14.5	0.825
Step 2					
Northern Europe	Mar. - May(Spring)	0.615	-	0.613	0.035
Southern Europe	Mar. - May(Spring)	1.13	-	1.13	0.065

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 3X - Late – 3 × 100g a.s./ha, 7d int. (DGR II / PMT IV)

Table 9.2.5- 57: FOCUS Steps 1-2 PECsw and PECsed for M-02 (AE C657188), GAP group name potatoes 3X, assessment name Late (DGR II / PMT IV)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	14.5	-	14.5	0.825
Step 2					
Northern Europe	Jun. - Sep.(Summer)	0.407	-	0.406	0.023
Southern Europe	Jun. - Sep.(Summer)	0.563	-	0.561	0.032

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 2X - Early – 2 × 100g a.s./ha, 7d int. (DGR III / PMT V)

Table 9.2.5- 58: FOCUS Steps 1-2 PECsw and PECsed for M-02 (AE C657188), GAP group name potatoes 2X, assessment name Early (DGR III / PMT V)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	9.66	-	9.64	0.550
Step 2					
Northern Europe	Mar. - May(Spring)	0.447	-	0.446	0.025
Southern Europe	Mar. - May(Spring)	0.816	-	0.814	0.047

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 2X - Late – 2 × 100g a.s./ha, 7d int. (DGR III / PMT VI)

Table 9.2.5- 59: FOCUS Steps 1-2 PECsw and PECsed for M-02 (AE C657188), GAP group name potatoes 2X, assessment name Late (DGR III / PMT VI)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	9.66	-	9.64	0.550
Step 2					
Northern Europe	Jun. - Sep.(Summer)	0.299	-	0.298	0.017
Southern Europe	Jun. - Sep.(Summer)	0.410	-	0.409	0.023

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 1X - Early – 1 × 100g a.s./ha (DGR IV / PMT VII)

Table 9.2.5- 60: FOCUS Steps 1-2 PECsw and PECsed for M-02 (AE C657188), GAP group name potatoes 1X, assessment name Early (DGR IV / PMT VII)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	4.83	-	4.82	0.275
Step 2					
Northern Europe	Mar. - May(Spring)	0.258 *	-	0.257	0.015 *
Southern Europe	Mar. - May(Spring)	0.471 *	-	0.470	0.027 *

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 1X - Late – 1 × 100g a.s./ha (DGR IV / PMT VIII)

Table 9.2.5- 61: FOCUS Steps 1-2 PECsw and PECsed for M-02 (AE C657188), GAP group name potatoes 1X, assessment name Late (DGR IV / PMT VIII)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	4.83	-	4.82	0.275
Step 2					
Northern Europe	Jun. - Sep.(Summer)	0.172 *	-	0.172	0.010 *
Southern Europe	Jun. - Sep.(Summer)	0.236 *	-	0.236	0.013 *

* Single applications are marked.
** TWA interval as required by ecotox

Metabolite M-03 (AE 0608000)

Potatoes 4X - Early – 4 × 100g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 62: FOCUS Steps 1-2 PECsw and PECsed for M-03 (AE 0608000), GAP group name potatoes 4X, assessment name Early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	3.22	-	1.17	3.44
Step 2					
Northern Europe	Mar. - May(Spring)	0.769	-	0.302	0.822
Southern Europe	Mar. - May(Spring)	1.54	-	0.604	1.64

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 4X - Late – 4 × 100g a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 63: FOCUS Steps 1-2 PECsw and PECsed for M-03 (AE 0608000), GAP group name potatoes 4X, assessment name Late (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	3.22	-	1.17	3.44
Step 2					
Northern Europe	Jun. - Sep.(Summer)	0.462	-	0.181	0.493
Southern Europe	Jun. - Sep.(Summer)	0.692	-	0.272	0.740

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 3X - Early – 3 × 100g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 64: FOCUS Steps 1-2 PECsw and PECsed for M-03 (AE 0608000), GAP group name potatoes 3X, assessment name Early (DGR II / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	3.22	-	1.17	3.44
Step 2					
Northern Europe	Mar. - May(Spring)	0.647	-	0.254	0.692
Southern Europe	Mar. - May(Spring)	1.29	-	0.508	1.38

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 3X - Late – 3 × 100g a.s./ha, 7d int. (DGR II / PMT IV)

Table 9.2.5- 65: FOCUS Steps 1-2 PECsw and PECsed for M-03 (AE 0608000), GAP group name potatoes 3X, assessment name Late (DGR II / PMT IV)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	3.22	-	1.17	3.44
Step 2					
Northern Europe	Jun. - Sep.(Summer)	0.388	-	0.152	0.415
Southern Europe	Jun. - Sep.(Summer)	0.582	-	0.229	0.622

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 2X - Early – 2 × 100g a.s./ha, 7d int. (DGR III / PMT V)

Table 9.2.5- 66: FOCUS Steps 1-2 PECsw and PECsed for M-03 (AE 0608000), GAP group name potatoes 2X, assessment name Early (DGR III / PMT V)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	3.22	-	1.17	3.44
Step 2					
Northern Europe	Mar. - May(Spring)	0.486	-	0.191	0.520
Southern Europe	Mar. - May(Spring)	0.973	-	0.382	1.04

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 2X - Late – 2 × 100g a.s./ha, 7d int. (DGR III / PMT VI)

Table 9.2.5- 67: FOCUS Steps 1-2 PECsw and PECsed for M-03 (AE 0608000), GAP group name potatoes 2X, assessment name Late (DGR III / PMT VI)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	3.22	-	1.17	3.44
Step 2					
Northern Europe	Jun. - Sep.(Summer)	0.292	-	0.115	0.312
Southern Europe	Jun. - Sep.(Summer)	0.438	-	0.172	0.468

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 1X - Early – 1 × 100g a.s./ha (DGR IV / PMT VII)

Table 9.2.5- 68: FOCUS Steps 1-2 PECsw and PECsed for M-03 (AE 0608000), GAP group name potatoes 1X, assessment name Early (DGR IV / PMT VII)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	3.22	-	1.17	3.44
Step 2					
Northern Europe	Mar. - May(Spring)	0.276 *	-	0.108	0.295 *
Southern Europe	Mar. - May(Spring)	0.552 *	-	0.217	0.590 *

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 1X - Late – 1 × 100g a.s./ha (DGR IV / PMT VIII)

Table 9.2.5- 69: FOCUS Steps 1-2 PECsw and PECsed for M-03 (AE 0608000), GAP group name potatoes 1X, assessment name Late (DGR IV / PMT VIII)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	3.22	-	1.17	3.44
Step 2					
Northern Europe	Jun. - Sep.(Summer)	0.166 *	-	0.065	0.177 *
Southern Europe	Jun. - Sep.(Summer)	0.248 *	-	0.098	0.266 *

* Single applications are marked.
** TWA interval as required by ecotox

Step 3 calculations were conducted for fluopicolide and its metabolite M-03 (AE 0608000) employing the models of the FOCUS SW suite. Reported values represent loadings *via* all relevant entry routes and are shown in Table 9.2.5- 70 to Table 9.2.5- 85.

Parent substance fluopicolide

Potatoes 4X - Early – 4 × 100 g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 70: FOCUS Step 3 PECsw and PECsed for fluopicolide, GAP group name potatoes 4X, assessment name Early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.524 *	Spray drift	0.078	0.246
D4	Pond	3.70	Drainage	3.70	18.1
D4	Stream	3.47	Drainage	2.92	6.32
D6	Ditch	1.51	Spray drift	0.890	3.10
D6	Ditch 2nd	7.36	Drainage	3.47	7.56
R1	Pond	0.260	RunOff	0.254	1.43
R1	Stream	2.86	RunOff	0.348	1.37
R2	Stream	1.82	RunOff	0.271	1.53
R3	Stream	4.00	RunOff	0.535	2.08

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 4X - Late – 4 × 100 g a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 71: FOCUS Step 3 PECsw and PECsed for fluopicolide, GAP group name potatoes 4X, assessment name Late (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.524 *	Spray drift	0.083	0.264
D4	Pond	3.65	Drainage	3.64	17.0
D4	Stream	3.54	Drainage	2.91	6.07
D6	Ditch	1.96	Spray drift	1.18	4.10
D6	Ditch 2nd	14.4	Drainage	6.16	12.6
R1	Pond	0.125	RunOff	0.122	0.736
R1	Stream	2.77	RunOff	0.276	0.643
R2	Stream	2.01	RunOff	0.311	1.94
R3	Stream	4.05	RunOff	0.512	3.08

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 3X - Early – 3 × 100 g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 72: FOCUS Step 3 PECsw and PECsed for fluopicolide, GAP group name potatoes 3X, assessment name Early (DGR II / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.524 *	Spray drift	0.078	0.225
D4	Pond	2.66	Drainage	2.66	13.1
D4	Stream	2.50	Drainage	2.09	4.61
D6	Ditch	1.12	Spray drift	0.657	2.28
D6	Ditch 2nd	4.93	Drainage	2.37	5.37
R1	Pond	0.217	RunOff	0.209	1.16
R1	Stream	2.86	RunOff	0.348	1.37
R2	Stream	1.82	RunOff	0.192	0.979
R3	Stream	2.58	RunOff	0.346	1.19

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 3X - Late – 3 × 100 g a.s./ha, 7d int. (DGR II / PMT IV)

Table 9.2.5- 73: FOCUS Step 3 PECsw and PECsed for fluopicolide, GAP group name potatoes 3X, assessment name Late (DGR II / PMT IV)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.524 *	Spray drift	0.083	0.242
D4	Pond	2.59	Drainage	2.58	12.2
D4	Stream	2.49	Drainage	2.03	4.42
D6	Ditch	1.35	Spray drift	0.789	2.73
D6	Ditch 2nd	14.1	Drainage	5.82	10.5
R1	Pond	0.072	RunOff	0.071	0.462
R1	Stream	1.54	RunOff	0.154	0.366
R2	Stream	1.33	RunOff	0.206	1.24
R3	Stream	3.67	RunOff	0.467	2.49

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 2X - Early – 2 × 100 g a.s./ha, 7d int. (DGR III / PMT V)

Table 9.2.5- 74: FOCUS Step 3 PECsw and PECsed for fluopicolide, GAP group name potatoes 2X, assessment name Early (DGR III / PMT V)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.524 *	Spray drift	0.078	0.228
D4	Pond	1.72	Drainage	1.72	8.54
D4	Stream	1.62	Drainage	1.35	3.03
D6	Ditch	0.742	Spray drift	0.435	1.50
D6	Ditch 2nd	2.98	Drainage	1.45	3.40
R1	Pond	0.152	RunOff	0.149	0.840
R1	Stream	1.42 *	RunOff	0.170	0.764 *
R2	Stream	1.32	RunOff	0.115	0.599
R3	Stream	2.58	RunOff	0.346	0.889

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 2X - Late – 2 × 100 g a.s./ha, 7d int. (DGR III / PMT VI)

Table 9.2.5- 75: FOCUS Step 3 PECsw and PECsed for fluopicolide, GAP group name potatoes 2X, assessment name Late (DGR III / PMT VI)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.524 *	Spray drift	0.083	0.246
D4	Pond	1.71	Drainage	1.71	8.23
D4	Stream	1.63	Drainage	1.31	3.00
D6	Ditch	0.796	Spray drift	0.465	1.57
D6	Ditch 2nd	7.70	Drainage	3.46	6.33
R1	Pond	0.059	RunOff	0.058	0.379
R1	Stream	1.15	RunOff	0.116	0.279
R2	Stream	1.16	RunOff	0.129	0.690
R3	Stream	2.98	RunOff	0.407	1.83

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 1X - Early – 100 g a.s./ha (DGR IV / PMT VII)

Table 9.2.5- 76: FOCUS Step 3 PECsw and PECsed for fluopicolide, GAP group name potatoes 1X, assessment name Early (DGR IV / PMT VII)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.524 *	Spray drift	0.078	0.206 *
D4	Pond	0.823 *	Drainage	0.822	4.17 *
D4	Stream	0.777 *	Drainage	0.634	1.50 *
D6	Ditch	0.564 *	Spray drift	0.217	0.768 *
D6	Ditch 2nd	1.33 *	Drainage	0.657	1.60 *
R1	Pond	0.111 *	RunOff	0.105	0.524 *
R1	Stream	1.42 *	RunOff	0.170	0.764 *
R2	Stream	0.574 *	RunOff	0.052	0.291 *
R3	Stream	0.864 *	RunOff	0.076	0.276 *

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 1X - Late – 100 g a.s./ha (DGR IV / PMT VIII)

Table 9.2.5- 77: FOCUS Step 3 PECsw and PECsed for fluopicolide, GAP group name potatoes 1X, assessment name Late (DGR IV / PMT VIII)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.524 *	Spray drift	0.083	0.213 *
D4	Pond	0.754 *	Drainage	0.752	3.84 *
D4	Stream	0.701 *	Drainage	0.538	1.41 *
D6	Ditch	0.555 *	Spray drift	0.227	0.744 *
D6	Ditch 2nd	3.00 *	Drainage	1.37	2.59 *
R1	Pond	0.026 *	RunOff	0.025	0.187 *
R1	Stream	0.469 *	RunOff	0.047	0.118 *
R2	Stream	0.589 *	RunOff	0.054	0.299 *
R3	Stream	1.50 *	RunOff	0.221	0.917 *

* Single applications are marked.
** TWA interval as required by ecotox

Metabolite M-03 (AE 0608000)

Potatoes 4X - Early – 4 × 100 g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 78: FOCUS Step 3 PECsw and PECsed for M-03 (AE 0608000), GAP group name potatoes 4X, assessment name Early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.021	-	0.021	0.084
D4	Pond	0.206	-	0.200	0.275
D4	Stream	0.365	-	0.309	0.513
D6	Ditch	0.191	-	0.126	0.308
D6	Ditch 2nd	0.489	-	0.251	0.528
R1	Pond	0.003	-	0.002	0.002
R1	Stream	0.097	-	0.009	0.022
R2	Stream	0.081	-	0.012	0.024
R3	Stream	0.086	-	0.012	0.024

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 4X - Late – 4 × 100 g a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 79: FOCUS Step 3 PECsw and PECsed for M-03 (AE 0608000), GAP group name potatoes 4X, assessment name Late (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.011	-	0.011	0.043
D4	Pond	0.150	-	0.147	0.202
D4	Stream	0.266	-	0.231	0.382
D6	Ditch	0.226	-	0.146	0.374
D6	Ditch 2nd	0.360	-	0.231	0.598
R1	Pond	0.001	-	0.001	0.001
R1	Stream	0.085	-	0.008	0.012
R2	Stream	0.092	-	0.011	0.027
R3	Stream	0.118	-	0.019	0.036

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 3X - Early – 3 × 100 g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 80: FOCUS Step 3 PECsw and PECsed for M-03 (AE 0608000), GAP group name potatoes 3X, assessment name Early (DGR II / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.014	-	0.014	0.058
D4	Pond	0.153	-	0.149	0.205
D4	Stream	0.272	-	0.230	0.379
D6	Ditch	0.144	-	0.095	0.233
D6	Ditch 2nd	0.364	-	0.188	0.394
R1	Pond	0.003	-	0.002	0.001
R1	Stream	0.067	-	0.007	0.016
R2	Stream	0.063	-	0.010	0.019
R3	Stream	0.069	-	0.009	0.017

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 3X - Late – 3 × 100 g a.s./ha, 7d int. (DGR II / PMT IV)

Table 9.2.5- 81: FOCUS Step 3 PECsw and PECsed for M-03 (AE 0608000), GAP group name potatoes 3X, assessment name Late (DGR II / PMT IV)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.007	-	0.007	0.030
D4	Pond	0.108	-	0.106	0.147
D4	Stream	0.191	-	0.166	0.283
D6	Ditch	0.161	-	0.103	0.258
D6	Ditch 2nd	0.326	-	0.180	0.436
R1	Pond	<0.001	-	<0.001	<0.001
R1	Stream	0.054	-	0.005	0.008
R2	Stream	0.064	-	0.009	0.019
R3	Stream	0.109	-	0.013	0.031

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 2X - Early – 2 × 100 g a.s./ha, 7d int. (DGR III / PMT V)

Table 9.2.5- 82: FOCUS Step 3 PECsw and PECsed for M-03 (AE 0608000), GAP group name potatoes 2X, assessment name Early (DGR III / PMT V)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.008	-	0.008	0.034
D4	Pond	0.101	-	0.098	0.135
D4	Stream	0.181	-	0.153	0.249
D6	Ditch	0.098	-	0.065	0.159
D6	Ditch 2nd	0.242	-	0.125	0.261
R1	Pond	0.002	-	<0.001	0.001
R1	Stream	0.054	-	0.005	0.012
R2	Stream	0.040	-	0.006	0.013
R3	Stream	0.040	-	0.005	0.010

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 2X - Late – 2 × 100 g a.s./ha, 7d int. (DGR III / PMT VI)

Table 9.2.5- 83: FOCUS Step 3 PECsw and PECsed for M-03 (AE 0608000), GAP group name potatoes 2X, assessment name Late (DGR III / PMT VI)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.005	-	0.005	0.019
D4	Pond	0.075	-	0.073	0.101
D4	Stream	0.133	-	0.115	0.192
D6	Ditch	0.100	-	0.063	0.157
D6	Ditch 2nd	0.243	-	0.125	0.292
R1	Pond	<0.001	-	<0.001	<0.001
R1	Stream	0.041	-	0.004	0.006
R2	Stream	0.043	-	0.007	0.013
R3	Stream	0.083	-	0.010	0.023

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 1X - Early – 100 g a.s./ha (DGR IV / PMT VII)

Table 9.2.5- 84: FOCUS Step 3 PECsw and PECsed for M-03 (AE 0608000), GAP group name potatoes 1X, assessment name Early (DGR IV / PMT VII)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.003 *	-	0.003	0.013 *
D4	Pond	0.049 *	-	0.049	0.067 *
D4	Stream	0.091 *	-	0.076	0.122 *
D6	Ditch	0.051 *	-	0.034	0.086 *
D6	Ditch 2nd	0.121 *	-	0.063	0.131 *
R1	Pond	<0.001 *	-	<0.001	<0.001 *
R1	Stream	0.022 *	-	0.002	0.005 *
R2	Stream	0.020 *	-	0.003	0.006 *
R3	Stream	0.016 *	-	0.002	0.003 *

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 1X - Late – 100 g a.s./ha (DGR IV / PMT VIII)

Table 9.2.5- 85: FOCUS Step 3 PECsw and PECsed for M-03 (AE 0608000), GAP group name potatoes 1X, assessment name Late (DGR IV / PMT VIII)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.002 *	-	0.002	0.008 *
D4	Pond	0.039 *	-	0.038	0.053 *
D4	Stream	0.069 *	-	0.059	0.100 *
D6	Ditch	0.051 *	-	0.032	0.077 *
D6	Ditch 2nd	0.114 *	-	0.057	0.127 *
R1	Pond	<0.001 *	-	<0.001	<0.001 *
R1	Stream	0.019 *	-	0.002	0.003 *
R2	Stream	0.020 *	-	0.003	0.006 *
R3	Stream	0.046 *	-	0.006	0.012 *

* Single applications are marked.
** TWA interval as required by ecotox

FOCUS Step 4 PECsw

FOCUS Step 4 calculations considering various mitigation measures for runoff and spray drift were conducted based on the Step 3 results. This section provides the summary of results in tabular form. Where applicable, the maximum of single and multiple application uses are shown Table 9.2.5- 86 to Table 9.2.5- 117.

Parent substance fluopicolide

Potatoes 4X - Early – 4 × 100 g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 86: FOCUS Step 4 PECsw results for fluopicolide, GAP group name potatoes 4X, assessment name Early (DGR I / PMT I)

PEC_{sw} (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.524	0.172	0.091	0.062	0.047	0.091	0.062	0.047
50 %		0.262	0.086	0.046	0.031	0.024	0.046	0.031	0.024
75 %		0.131	0.043	0.023	0.016	0.012	0.023	0.016	0.012
90 %		0.052	0.017	0.009	*0.006*	*0.006*	0.009	*0.006*	*0.006*
None	D4 Pond	*3.70*	*3.70*	*3.70*	*3.70*	*3.70*	*3.70*	*3.70*	*3.70*
50 %		*3.70*	*3.70*	*3.69*	*3.69*	*3.69*	*3.69*	*3.69*	*3.69*
75 %		*3.69*	*3.69*	*3.69*	*3.69*	*3.69*	*3.69*	*3.69*	*3.69*
90 %		*3.69*	*3.69*	*3.69*	*3.69*	*3.69*	*3.69*	*3.69*	*3.69*
None	D4 Stream	*3.47*	*3.47*	*3.47*	*3.47*	*3.47*	*3.47*	*3.47*	*3.47*
50 %		*3.47*	*3.47*	*3.47*	*3.47*	*3.47*	*3.47*	*3.47*	*3.47*
75 %		*3.47*	*3.47*	*3.47*	*3.47*	*3.47*	*3.47*	*3.47*	*3.47*
90 %		*3.47*	*3.47*	*3.47*	*3.47*	*3.47*	*3.47*	*3.47*	*3.47*
None	D6 Ditch	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*
50 %		*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*
75 %		*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*
90 %		*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*
None	D6 Ditch 2nd	*7.36*	*7.36*	*7.36*	*7.36*	*7.36*	*7.36*	*7.36*	*7.36*
50 %		*7.36*	*7.36*	*7.36*	*7.36*	*7.36*	*7.36*	*7.36*	*7.36*
75 %		*7.36*	*7.36*	*7.36*	*7.36*	*7.36*	*7.36*	*7.36*	*7.36*
90 %		*7.36*	*7.36*	*7.36*	*7.36*	*7.36*	*7.36*	*7.36*	*7.36*
None	R1 Pond	*0.260*	*0.258*	*0.251*	*0.248*	*0.246*	*0.113*	*0.109*	*0.059*
50 %		*0.248*	*0.246*	*0.243*	*0.241*	*0.240*	*0.104*	*0.103*	*0.054*
75 %		*0.241*	*0.241*	*0.239*	*0.238*	*0.238*	*0.100*	*0.099*	*0.051*
90 %		*0.238*	*0.237*	*0.237*	*0.236*	*0.236*	*0.098*	*0.097*	*0.049*
None	R1 Stream	*2.86*	*2.86*	*2.86*	*2.86*	*2.86*	*1.30*	*1.30*	*0.682*
50 %		*2.86*	*2.86*	*2.86*	*2.86*	*2.86*	*1.30*	*1.30*	*0.682*
75 %		*2.86*	*2.86*	*2.86*	*2.86*	*2.86*	*1.30*	*1.30*	*0.682*
90 %		*2.86*	*2.86*	*2.86*	*2.86*	*2.86*	*1.30*	*1.30*	*0.682*
None	R2 Stream	*1.82*	*1.82*	*1.82*	*1.82*	*1.82*	*0.812*	*0.812*	*0.422*
50 %		*1.82*	*1.82*	*1.82*	*1.82*	*1.82*	*0.812*	*0.812*	*0.422*
75 %		*1.82*	*1.82*	*1.82*	*1.82*	*1.82*	*0.812*	*0.812*	*0.422*
90 %		*1.82*	*1.82*	*1.82*	*1.82*	*1.82*	*0.812*	*0.812*	*0.422*

PEC$_{sw}$ (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	R3 Stream	*4.00*	*4.00*	*4.00*	*4.00*	*4.00*	*1.82*	*1.82*	*0.957*
50 %		*4.00*	*4.00*	*4.00*	*4.00*	*4.00*	*1.82*	*1.82*	*0.957*
75 %		*4.00*	*4.00*	*4.00*	*4.00*	*4.00*	*1.82*	*1.82*	*0.957*
90 %		*4.00*	*4.00*	*4.00*	*4.00*	*4.00*	*1.82*	*1.82*	*0.957*

* Maximum values coming from multiple applications are marked in italics

<u>Potatoes 4X - Late – 4 × 100 g a.s./ha, 7d int. (DGR I / PMT II)</u>

Table 9.2.5- 87: FOCUS Step 4 PECsw results for fluopicolide, GAP group name potatoes 4X, assessment name Late (DGR I / PMT II)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.524	0.172	0.091	0.062	0.047	0.091	0.062	0.047
50 %		0.262	0.086	0.046	0.031	0.024	0.046	0.031	0.024
75 %		0.131	0.043	0.023	0.016	0.012	0.023	0.016	0.012
90 %		0.052	0.017	0.009	0.006	0.005	0.009	0.006	0.005
None	D4 Pond	*3.65*	*3.65*	*3.65*	*3.64*	*3.64*	*3.65*	*3.64*	*3.64*
50 %		*3.64*	*3.64*	*3.64*	*3.64*	*3.64*	*3.64*	*3.64*	*3.64*
75 %		*3.64*	*3.64*	*3.64*	*3.64*	*3.64*	*3.64*	*3.64*	*3.64*
90 %		*3.64*	*3.64*	*3.63*	*3.63*	*3.63*	*3.63*	*3.63*	*3.63*
None	D4 Stream	*3.54*	*3.54*	*3.54*	*3.54*	*3.54*	*3.54*	*3.54*	*3.54*
50 %		*3.54*	*3.54*	*3.54*	*3.54*	*3.54*	*3.54*	*3.54*	*3.54*
75 %		*3.54*	*3.54*	*3.54*	*3.54*	*3.54*	*3.54*	*3.54*	*3.54*
90 %		*3.54*	*3.54*	*3.54*	*3.54*	*3.54*	*3.54*	*3.54*	*3.54*
None	D6 Ditch	*1.96*	*1.96*	*1.96*	*1.96*	*1.96*	*1.96*	*1.96*	*1.96*
50 %		*1.96*	*1.96*	*1.96*	*1.96*	*1.96*	*1.96*	*1.96*	*1.96*
75 %		*1.96*	*1.96*	*1.96*	*1.96*	*1.96*	*1.96*	*1.96*	*1.96*
90 %		*1.96*	*1.96*	*1.96*	*1.96*	*1.96*	*1.96*	*1.96*	*1.96*
None	D6 Ditch 2nd	*14.4*	*14.4*	*14.4*	*14.4*	*14.4*	*14.4*	*14.4*	*14.4*
50 %		*14.4*	*14.4*	*14.4*	*14.4*	*14.4*	*14.4*	*14.4*	*14.4*
75 %		*14.4*	*14.4*	*14.4*	*14.4*	*14.4*	*14.4*	*14.4*	*14.4*
90 %		*14.4*	*14.4*	*14.4*	*14.4*	*14.4*	*14.4*	*14.4*	*14.4*
None	R1 Pond	*0.125*	*0.123*	*0.118*	*0.115*	*0.114*	*0.055*	*0.053*	*0.030*

PEC$_{sw}$ (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		*0.115*	*0.114*	*0.112*	*0.110*	*0.110*	*0.049*	*0.048*	*0.026*
75 %		*0.110*	*0.110*	*0.109*	*0.108*	*0.107*	*0.047*	*0.046*	*0.024*
90 %		*0.107*	*0.107*	*0.107*	*0.106*	*0.106*	*0.045*	*0.045*	*0.023*
None	R1 Stream	*2.77*	*2.77*	*2.77*	*2.77*	*2.77*	*1.24*	*1.24*	*0.643*
50 %		*2.77*	*2.77*	*2.77*	*2.77*	*2.77*	*1.24*	*1.24*	*0.643*
75 %		*2.77*	*2.77*	*2.77*	*2.77*	*2.77*	*1.24*	*1.24*	*0.643*
90 %		*2.77*	*2.77*	*2.77*	*2.77*	*2.77*	*1.24*	*1.24*	*0.643*
None	R2 Stream	*2.01*	*2.01*	*2.01*	*2.01*	*2.01*	*0.916*	*0.916*	*0.480*
50 %		*2.01*	*2.01*	*2.01*	*2.01*	*2.01*	*0.916*	*0.916*	*0.480*
75 %		*2.01*	*2.01*	*2.01*	*2.01*	*2.01*	*0.916*	*0.916*	*0.480*
90 %		*2.01*	*2.01*	*2.01*	*2.01*	*2.01*	*0.916*	*0.916*	*0.480*
None	R3 Stream	*4.05*	*4.05*	*4.05*	*4.05*	*4.05*	*1.85*	*1.85*	*0.968*
50 %		*4.05*	*4.05*	*4.05*	*4.05*	*4.05*	*1.85*	*1.85*	*0.968*
75 %		*4.05*	*4.05*	*4.05*	*4.05*	*4.05*	*1.85*	*1.85*	*0.968*
90 %		*4.05*	*4.05*	*4.05*	*4.05*	*4.05*	*1.85*	*1.85*	*0.968*

* Maximum values coming from multiple applications are marked in italics

<u>Potatoes 3X - Early – 3 × 100 g a.s./ha, 7d int. (DGR II / PMT III)</u>

Table 9.2.5- 88: FOCUS Step 4 PECsw results for fluopicolide, GAP group name potatoes 3X, assessment name Early (DGR II / PMT III)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.524	0.172	0.091	0.062	0.047	0.091	0.062	0.047
50 %		0.262	0.086	0.046	0.031	0.024	0.046	0.031	0.024
75 %		0.131	0.043	0.023	0.016	0.012	0.023	0.016	0.012
90 %		0.052	0.017	0.009	0.006	0.005	0.009	0.006	0.005
None	D4 Pond	*2.66*	*2.66*	*2.66*	*2.66*	*2.66*	*2.66*	*2.66*	*2.66*
50 %		*2.66*	*2.66*	*2.66*	*2.66*	*2.66*	*2.66*	*2.66*	*2.66*
75 %		*2.66*	*2.66*	*2.66*	*2.66*	*2.66*	*2.66*	*2.66*	*2.66*
90 %		*2.66*	*2.66*	*2.66*	*2.66*	*2.66*	*2.66*	*2.66*	*2.66*
None	D4 Stream	*2.50*	*2.50*	*2.50*	*2.50*	*2.50*	*2.50*	*2.50*	*2.50*
50 %		*2.50*	*2.50*	*2.50*	*2.50*	*2.50*	*2.50*	*2.50*	*2.50*
75 %		*2.50*	*2.50*	*2.50*	*2.50*	*2.50*	*2.50*	*2.50*	*2.50*

PEC_{sw} (µg/L)	**Scenario**	**Step 4 fluopicolide**							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
90 %		*2.50*	*2.50*	*2.50*	*2.50*	*2.50*	*2.50*	*2.50*	*2.50*
None	D6 Ditch	*1.12*	*1.12*	*1.12*	*1.12*	*1.12*	*1.12*	*1.12*	*1.12*
50 %		*1.12*	*1.12*	*1.12*	*1.12*	*1.12*	*1.12*	*1.12*	*1.12*
75 %		*1.12*	*1.12*	*1.12*	*1.12*	*1.12*	*1.12*	*1.12*	*1.12*
90 %		*1.12*	*1.12*	*1.12*	*1.12*	*1.12*	*1.12*	*1.12*	*1.12*
None	D6 Ditch 2nd	*4.93*	*4.93*	*4.93*	*4.93*	*4.93*	*4.93*	*4.93*	*4.93*
50 %		*4.93*	*4.93*	*4.93*	*4.93*	*4.93*	*4.93*	*4.93*	*4.93*
75 %		*4.93*	*4.93*	*4.93*	*4.93*	*4.93*	*4.93*	*4.93*	*4.93*
90 %		*4.93*	*4.93*	*4.93*	*4.93*	*4.93*	*4.93*	*4.93*	*4.93*
None	R1 Pond	*0.217*	*0.213*	*0.203*	*0.199*	*0.197*	*0.096*	*0.091*	*0.052*
50 %		*0.199*	*0.198*	*0.195*	*0.193*	*0.192*	*0.084*	*0.081*	*0.044*
75 %		*0.193*	*0.193*	*0.191*	*0.190*	*0.190*	*0.079*	*0.078*	*0.040*
90 %		*0.190*	*0.190*	*0.189*	*0.189*	*0.188*	*0.077*	*0.077*	*0.039*
None	R1 Stream	*2.86*	*2.86*	*2.86*	*2.86*	*2.86*	*1.30*	*1.30*	*0.682*
50 %		*2.86*	*2.86*	*2.86*	*2.86*	*2.86*	*1.30*	*1.30*	*0.682*
75 %		*2.86*	*2.86*	*2.86*	*2.86*	*2.86*	*1.30*	*1.30*	*0.682*
90 %		*2.86*	*2.86*	*2.86*	*2.86*	*2.86*	*1.30*	*1.30*	*0.682*
None	R2 Stream	*1.82*	*1.82*	*1.82*	*1.82*	*1.82*	*0.812*	*0.812*	*0.422*
50 %		*1.82*	*1.82*	*1.82*	*1.82*	*1.82*	*0.812*	*0.812*	*0.422*
75 %		*1.82*	*1.82*	*1.82*	*1.82*	*1.82*	*0.812*	*0.812*	*0.422*
90 %		*1.82*	*1.82*	*1.82*	*1.82*	*1.82*	*0.812*	*0.812*	*0.422*
None	R3 Stream	*2.58*	*2.58*	*2.58*	*2.58*	*2.58*	*1.17*	*1.17*	*0.612*
50 %		*2.58*	*2.58*	*2.58*	*2.58*	*2.58*	*1.17*	*1.17*	*0.612*
75 %		*2.58*	*2.58*	*2.58*	*2.58*	*2.58*	*1.17*	*1.17*	*0.612*
90 %		*2.58*	*2.58*	*2.58*	*2.58*	*2.58*	*1.17*	*1.17*	*0.612*

* Maximum values coming from multiple applications are marked in italics

Potatoes 3X - Late – 3 × 100 g a.s./ha, 7d int. (DGR II / PMT IV)

Table 9.2.5- 89: FOCUS Step 4 PECsw results for fluopicolide, GAP group name potatoes 3X, assessment name Late (DGR II / PMT IV)

PEC$_{sw}$ (µg/L)	**Scenario**	**Step 4 fluopicolide**							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.524	0.172	0.091	0.062	0.047	0.091	0.062	0.047
50 %		0.262	0.086	0.046	0.031	0.024	0.046	0.031	0.024
75 %		0.131	0.043	0.023	0.016	0.012	0.023	0.016	0.012
90 %		0.052	0.017	0.009	0.006	0.005	0.009	0.006	0.005
None	D4 Pond	*2.59*	*2.59*	*2.59*	*2.58*	*2.58*	*2.59*	*2.58*	*2.58*
50 %		*2.58*	*2.58*	*2.58*	*2.58*	*2.58*	*2.58*	*2.58*	*2.58*
75 %		*2.58*	*2.58*	*2.58*	*2.58*	*2.58*	*2.58*	*2.58*	*2.58*
90 %		*2.58*	*2.58*	*2.58*	*2.58*	*2.58*	*2.58*	*2.58*	*2.58*
None	D4 Stream	*2.49*	*2.49*	*2.49*	*2.49*	*2.49*	*2.49*	*2.49*	*2.49*
50 %		*2.49*	*2.49*	*2.49*	*2.49*	*2.49*	*2.49*	*2.49*	*2.49*
75 %		*2.49*	*2.49*	*2.49*	*2.49*	*2.49*	*2.49*	*2.49*	*2.49*
90 %		*2.49*	*2.49*	*2.49*	*2.49*	*2.49*	*2.49*	*2.49*	*2.49*
None	D6 Ditch	*1.35*	*1.35*	*1.35*	*1.35*	*1.35*	*1.35*	*1.35*	*1.35*
50 %		*1.35*	*1.35*	*1.35*	*1.35*	*1.35*	*1.35*	*1.35*	*1.35*
75 %		*1.35*	*1.35*	*1.35*	*1.35*	*1.35*	*1.35*	*1.35*	*1.35*
90 %		*1.35*	*1.35*	*1.35*	*1.35*	*1.35*	*1.35*	*1.35*	*1.35*
None	D6 Ditch 2nd	*14.1*	*14.1*	*14.1*	*14.1*	*14.1*	*14.1*	*14.1*	*14.1*
50 %		*14.1*	*14.1*	*14.1*	*14.1*	*14.1*	*14.1*	*14.1*	*14.1*
75 %		*14.1*	*14.1*	*14.1*	*14.1*	*14.1*	*14.1*	*14.1*	*14.1*
90 %		*14.1*	*14.1*	*14.1*	*14.1*	*14.1*	*14.1*	*14.1*	*14.1*
None	R1 Pond	*0.072*	*0.071*	*0.067*	*0.065*	*0.064*	*0.033*	*0.031*	*0.018*
50 %		*0.065*	*0.064*	*0.062*	*0.061*	*0.061*	*0.028*	*0.028*	*0.015*
75 %		*0.061*	*0.061*	*0.060*	*0.060*	*0.059*	*0.026*	*0.026*	*0.014*
90 %		*0.059*	*0.059*	*0.059*	*0.059*	*0.058*	*0.025*	*0.025*	*0.013*
None	R1 Stream	*1.54*	*1.54*	*1.54*	*1.54*	*1.54*	*0.690*	*0.690*	*0.359*
50 %		*1.54*	*1.54*	*1.54*	*1.54*	*1.54*	*0.690*	*0.690*	*0.359*
75 %		*1.54*	*1.54*	*1.54*	*1.54*	*1.54*	*0.690*	*0.690*	*0.359*
90 %		*1.54*	*1.54*	*1.54*	*1.54*	*1.54*	*0.690*	*0.690*	*0.359*
None	R2 Stream	*1.33*	*1.33*	*1.33*	*1.33*	*1.33*	*0.607*	*0.607*	*0.318*
50 %		*1.33*	*1.33*	*1.33*	*1.33*	*1.33*	*0.607*	*0.607*	*0.318*
75 %		*1.33*	*1.33*	*1.33*	*1.33*	*1.33*	*0.607*	*0.607*	*0.318*
90 %		*1.33*	*1.33*	*1.33*	*1.33*	*1.33*	*0.607*	*0.607*	*0.318*
None	R3 Stream	*3.67*	*3.67*	*3.67*	*3.67*	*3.67*	*1.67*	*1.67*	*0.877*

PEC$_{sw}$ (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	Non e	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		*3.67*	*3.67*	*3.67*	*3.67*	*3.67*	*1.67*	*1.67*	*0.877*
75 %		*3.67*	*3.67*	*3.67*	*3.67*	*3.67*	*1.67*	*1.67*	*0.877*
90 %		*3.67*	*3.67*	*3.67*	*3.67*	*3.67*	*1.67*	*1.67*	*0.877*

* Maximum values coming from multiple applications are marked in italics

<u>Potatoes 2X - Early – 2 × 100 g a.s./ha, 7d int. (DGR III / PMT V)</u>

Table 9.2.5- 90: FOCUS Step 4 PECsw results for fluopicolide, GAP group name potatoes 2X, assessment name Early (DGR III / PMT V)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.524	0.172	0.091	0.062	0.047	0.091	0.062	0.047
50 %		0.262	0.086	0.046	0.031	0.024	0.046	0.031	0.024
75 %		0.131	0.043	0.023	0.016	0.012	0.023	0.016	0.012
90 %		0.052	0.017	0.009	0.006	0.005	0.009	0.006	0.005
None	D4 Pond	*1.72*	*1.72*	*1.72*	*1.72*	*1.72*	*1.72*	*1.72*	*1.72*
50 %		*1.72*	*1.72*	*1.72*	*1.72*	*1.71*	*1.72*	*1.72*	*1.71*
75 %		*1.72*	*1.71*	*1.71*	*1.71*	*1.71*	*1.71*	*1.71*	*1.71*
90 %		*1.71*	*1.71*	*1.71*	*1.71*	*1.71*	*1.71*	*1.71*	*1.71*
None	D4 Stream	*1.62*	*1.62*	*1.62*	*1.62*	*1.62*	*1.62*	*1.62*	*1.62*
50 %		*1.62*	*1.62*	*1.62*	*1.62*	*1.62*	*1.62*	*1.62*	*1.62*
75 %		*1.62*	*1.62*	*1.62*	*1.62*	*1.62*	*1.62*	*1.62*	*1.62*
90 %		*1.62*	*1.62*	*1.62*	*1.62*	*1.62*	*1.62*	*1.62*	*1.62*
None	D6 Ditch	*0.742*	*0.742*	*0.742*	*0.742*	*0.742*	*0.742*	*0.742*	*0.742*
50 %		*0.742*	*0.742*	*0.742*	*0.742*	*0.742*	*0.742*	*0.742*	*0.742*
75 %		*0.742*	*0.742*	*0.742*	*0.742*	*0.742*	*0.742*	*0.742*	*0.742*
90 %		*0.742*	*0.742*	*0.742*	*0.742*	*0.742*	*0.742*	*0.742*	*0.742*
None	D6 Ditch 2nd	*2.98*	*2.98*	*2.98*	*2.98*	*2.98*	*2.98*	*2.98*	*2.98*
50 %		*2.98*	*2.98*	*2.98*	*2.98*	*2.98*	*2.98*	*2.98*	*2.98*
75 %		*2.98*	*2.98*	*2.98*	*2.98*	*2.98*	*2.98*	*2.98*	*2.98*
90 %		*2.98*	*2.98*	*2.98*	*2.98*	*2.98*	*2.98*	*2.98*	*2.98*
None	R1 Pond	*0.152*	*0.150*	*0.146*	*0.144*	*0.143*	*0.066*	*0.064*	*0.035*
50 %		*0.144*	*0.143*	*0.141*	*0.140*	*0.139*	*0.061*	*0.060*	*0.031*
75 %		*0.140*	*0.139*	*0.138*	*0.138*	*0.138*	*0.058*	*0.058*	*0.030*

PEC$_{sw}$ (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
90 %		*0.138*	*0.137*	*0.137*	*0.137*	*0.137*	*0.057*	*0.056*	*0.029*
None	R1 Stream	1.42	1.42	1.42	1.42	1.42	0.648	0.648	0.339
50 %		1.42	1.42	1.42	1.42	1.42	0.648	0.648	0.339
75 %		1.42	1.42	1.42	1.42	1.42	0.648	0.648	0.339
90 %		1.42	1.42	1.42	1.42	1.42	0.648	0.648	0.339
None	R2 Stream	*1.32*	*1.32*	*1.32*	*1.32*	*1.32*	*0.587*	*0.587*	*0.305*
50 %		*1.32*	*1.32*	*1.32*	*1.32*	*1.32*	*0.587*	*0.587*	*0.305*
75 %		*1.32*	*1.32*	*1.32*	*1.32*	*1.32*	*0.587*	*0.587*	*0.305*
90 %		*1.32*	*1.32*	*1.32*	*1.32*	*1.32*	*0.587*	*0.587*	*0.305*
None	R3 Stream	*2.58*	*2.58*	*2.58*	*2.58*	*2.58*	*1.17*	*1.17*	*0.612*
50 %		*2.58*	*2.58*	*2.58*	*2.58*	*2.58*	*1.17*	*1.17*	*0.612*
75 %		*2.58*	*2.58*	*2.58*	*2.58*	*2.58*	*1.17*	*1.17*	*0.612*
90 %		*2.58*	*2.58*	*2.58*	*2.58*	*2.58*	*1.17*	*1.17*	*0.612*

* Maximum values coming from multiple applications are marked in italics

Potatoes 2X - Late – 2 × 100 g a.s./ha, 7d int. (DGR III / PMT VI)

Table 9.2.5- 91: FOCUS Step 4 PECsw results for fluopicolide, GAP group name potatoes 2X, assessment name Late (DGR III / PMT VI)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.524	0.172	0.091	0.062	0.047	0.091	0.062	0.047
50 %		0.262	0.086	0.046	0.031	0.024	0.046	0.031	0.024
75 %		0.131	0.043	0.023	0.016	0.012	0.023	0.016	0.012
90 %		0.052	0.017	0.009	0.006	0.005	0.009	0.006	0.005
None	D4 Pond	*1.71*	*1.71*	*1.71*	*1.71*	*1.70*	*1.71*	*1.71*	*1.70*
50 %		*1.71*	*1.71*	*1.70*	*1.70*	*1.70*	*1.70*	*1.70*	*1.70*
75 %		*1.70*	*1.70*	*1.70*	*1.70*	*1.70*	*1.70*	*1.70*	*1.70*
90 %		*1.70*	*1.70*	*1.70*	*1.70*	*1.70*	*1.70*	*1.70*	*1.70*
None	D4 Stream	*1.63*	*1.63*	*1.63*	*1.63*	*1.63*	*1.63*	*1.63*	*1.63*
50 %		*1.63*	*1.63*	*1.63*	*1.63*	*1.63*	*1.63*	*1.63*	*1.63*
75 %		*1.63*	*1.63*	*1.63*	*1.63*	*1.63*	*1.63*	*1.63*	*1.63*
90 %		*1.63*	*1.63*	*1.63*	*1.63*	*1.63*	*1.63*	*1.63*	*1.63*
None	D6 Ditch	*0.796*	*0.796*	*0.796*	*0.796*	*0.796*	*0.796*	*0.796*	*0.796*

PEC$_{sw}$ (µg/L)	**Scenario**	**Step 4 fluopicolide**							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		*0.796*	*0.796*	*0.796*	*0.796*	*0.796*	*0.796*	*0.796*	*0.796*
75 %		*0.796*	*0.796*	*0.796*	*0.796*	*0.796*	*0.796*	*0.796*	*0.796*
90 %		*0.796*	*0.796*	*0.796*	*0.796*	*0.796*	*0.796*	*0.796*	*0.796*
None	D6 Ditch 2nd	*7.70*	*7.70*	*7.70*	*7.70*	*7.70*	*7.70*	*7.70*	*7.70*
50 %		*7.70*	*7.70*	*7.70*	*7.70*	*7.70*	*7.70*	*7.70*	*7.70*
75 %		*7.70*	*7.70*	*7.70*	*7.70*	*7.70*	*7.70*	*7.70*	*7.70*
90 %		*7.70*	*7.70*	*7.70*	*7.70*	*7.70*	*7.70*	*7.70*	*7.70*
None	R1 Pond	*0.059*	*0.058*	*0.055*	*0.053*	*0.052*	*0.027*	*0.026*	*0.015*
50 %		*0.053*	*0.053*	*0.051*	*0.051*	*0.050*	*0.024*	*0.023*	*0.013*
75 %		*0.051*	*0.050*	*0.050*	*0.050*	*0.049*	*0.022*	*0.022*	*0.012*
90 %		*0.049*	*0.049*	*0.049*	*0.049*	*0.049*	*0.021*	*0.021*	*0.011*
None	R1 Stream	*1.15*	*1.15*	*1.15*	*1.15*	*1.15*	*0.515*	*0.515*	*0.268*
50 %		*1.15*	*1.15*	*1.15*	*1.15*	*1.15*	*0.515*	*0.515*	*0.268*
75 %		*1.15*	*1.15*	*1.15*	*1.15*	*1.15*	*0.515*	*0.515*	*0.268*
90 %		*1.15*	*1.15*	*1.15*	*1.15*	*1.15*	*0.515*	*0.515*	*0.268*
None	R2 Stream	*1.16*	*1.16*	*1.16*	*1.16*	*1.16*	*0.515*	*0.515*	*0.268*
50 %		*1.16*	*1.16*	*1.16*	*1.16*	*1.16*	*0.515*	*0.515*	*0.268*
75 %		*1.16*	*1.16*	*1.16*	*1.16*	*1.16*	*0.515*	*0.515*	*0.268*
90 %		*1.16*	*1.16*	*1.16*	*1.16*	*1.16*	*0.515*	*0.515*	*0.268*
None	R3 Stream	*2.98*	*2.98*	*2.98*	*2.98*	*2.98*	*1.36*	*1.36*	*0.713*
50 %		*2.98*	*2.98*	*2.98*	*2.98*	*2.98*	*1.36*	*1.36*	*0.713*
75 %		*2.98*	*2.98*	*2.98*	*2.98*	*2.98*	*1.36*	*1.36*	*0.713*
90 %		*2.98*	*2.98*	*2.98*	*2.98*	*2.98*	*1.36*	*1.36*	*0.713*

* Maximum values coming from multiple applications are marked in italics

Potatoes 1X - Early – 100 g a.s./ha (DGR IV / PMT VII)

Table 9.2.5- 92: FOCUS Step 4 PECsw results for fluopicolide, GAP group name potatoes 1X, assessment name Early (DGR IV / PMT VII)

PEC_{sw} (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.524	0.172	0.091	0.062	0.047	0.091	0.062	0.047
50 %		0.262	0.086	0.046	0.031	0.024	0.046	0.031	0.024
75 %		0.131	0.043	0.023	0.016	0.012	0.023	0.016	0.012
90 %		0.052	0.017	0.009	0.006	0.005	0.009	0.006	0.005
None	D4 Pond	0.823	0.823	0.822	0.822	0.821	0.822	0.822	0.821
50 %		0.822	0.821	0.821	0.821	0.821	0.821	0.821	0.821
75 %		0.821	0.821	0.820	0.820	0.820	0.820	0.820	0.820
90 %		0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820
None	D4 Stream	0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.777
50 %		0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.777
75 %		0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.777
90 %		0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.777
None	D6 Ditch	0.564	0.367	0.367	0.367	0.367	0.367	0.367	0.367
50 %		0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
75 %		0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
90 %		0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
None	D6 Ditch 2nd	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33
50 %		1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33
75 %		1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33
90 %		1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33
None	R1 Pond	0.111	0.109	0.105	0.102	0.101	0.049	0.047	0.027
50 %		0.102	0.101	0.099	0.097	0.097	0.043	0.042	0.023
75 %		0.097	0.097	0.096	0.095	0.095	0.040	0.040	0.021
90 %		0.095	0.094	0.094	0.094	0.094	0.039	0.038	0.020
None	R1 Stream	1.42	1.42	1.42	1.42	1.42	0.648	0.648	0.339
50 %		1.42	1.42	1.42	1.42	1.42	0.648	0.648	0.339
75 %		1.42	1.42	1.42	1.42	1.42	0.648	0.648	0.339
90 %		1.42	1.42	1.42	1.42	1.42	0.648	0.648	0.339
None	R2 Stream	0.574	0.574	0.574	0.574	0.574	0.256	0.256	0.133
50 %		0.574	0.574	0.574	0.574	0.574	0.256	0.256	0.133
75 %		0.574	0.574	0.574	0.574	0.574	0.256	0.256	0.133
90 %		0.574	0.574	0.574	0.574	0.574	0.256	0.256	0.133
None	R3 Stream	0.864	0.864	0.864	0.864	0.864	0.390	0.390	0.204

PECsw (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		0.864	0.864	0.864	0.864	0.864	0.390	0.390	0.204
75 %		0.864	0.864	0.864	0.864	0.864	0.390	0.390	0.204
90 %		0.864	0.864	0.864	0.864	0.864	0.390	0.390	0.204

Potatoes 1X - Late – 100 g a.s./ha (DGR IV / PMT VIII)

Table 9.2.5- 93: FOCUS Step 4 PECsw results for fluopicolide, GAP group name potatoes 1X, assessment name Late (DGR IV / PMT VIII)

PECsw (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.524	0.172	0.091	0.062	0.047	0.091	0.062	0.047
50 %		0.262	0.086	0.046	0.031	0.024	0.046	0.031	0.024
75 %		0.131	0.043	0.023	0.016	0.012	0.023	0.016	0.012
90 %		0.052	0.017	0.009	0.006	0.005	0.009	0.006	0.005
None	D4 Pond	0.754	0.753	0.752	0.751	0.751	0.752	0.751	0.751
50 %		0.751	0.751	0.750	0.750	0.749	0.750	0.750	0.749
75 %		0.749	0.749	0.749	0.749	0.749	0.749	0.749	0.749
90 %		0.749	0.748	0.748	0.748	0.748	0.748	0.748	0.748
None	D4 Stream	0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701
50 %		0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701
75 %		0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701
90 %		0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701
None	D6 Ditch	0.555	0.393	0.393	0.393	0.393	0.393	0.393	0.393
50 %		0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393
75 %		0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393
90 %		0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393
None	D6 Ditch 2nd	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
50 %		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
75 %		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
90 %		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
None	R1 Pond	0.026	0.025	0.024	0.023	0.022	0.014	0.012	0.009
50 %		0.023	0.023	0.022	0.022	0.021	0.010	0.010	0.006
75 %		0.021	0.021	0.021	0.021	0.021	0.010	0.009	0.005
90 %		0.021	0.021	0.021	0.020	0.020	0.009	0.009	0.005

PEC$_{sw}$ (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	R1 Stream	0.469	0.469	0.469	0.469	0.469	0.210	0.210	0.109
50 %		0.469	0.469	0.469	0.469	0.469	0.210	0.210	0.109
75 %		0.469	0.469	0.469	0.469	0.469	0.210	0.210	0.109
90 %		0.469	0.469	0.469	0.469	0.469	0.210	0.210	0.109
None	R2 Stream	0.589	0.589	0.589	0.589	0.589	0.263	0.263	0.137
50 %		0.589	0.589	0.589	0.589	0.589	0.263	0.263	0.137
75 %		0.589	0.589	0.589	0.589	0.589	0.263	0.263	0.137
90 %		0.589	0.589	0.589	0.589	0.589	0.263	0.263	0.137
None	R3 Stream	1.50	1.50	1.50	1.50	1.50	0.686	0.686	0.360
50 %		1.50	1.50	1.50	1.50	1.50	0.686	0.686	0.360
75 %		1.50	1.50	1.50	1.50	1.50	0.686	0.686	0.360
90 %		1.50	1.50	1.50	1.50	1.50	0.686	0.686	0.360

Metabolite M-03 (AE 0608000)

Potatoes 4X - Early – 4 × 100 g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 94: FOCUS Step 4 PECsw results for M-03 (AE 0608000), GAP group name potatoes 4X, assessment name Early (DGR I / PMT I)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*
50 %		*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*
75 %		*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*
90 %		*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*
None	D4 Pond	*0.206*	*0.206*	*0.206*	*0.206*	*0.206*	*0.206*	*0.206*	*0.206*
50 %		*0.206*	*0.206*	*0.206*	*0.206*	*0.206*	*0.206*	*0.206*	*0.206*
75 %		*0.206*	*0.206*	*0.206*	*0.206*	*0.206*	*0.206*	*0.206*	*0.206*
90 %		*0.206*	*0.206*	*0.206*	*0.206*	*0.206*	*0.206*	*0.206*	*0.206*
None	D4 Stream	*0.365*	*0.365*	*0.365*	*0.365*	*0.365*	*0.365*	*0.365*	*0.365*
50 %		*0.365*	*0.365*	*0.365*	*0.365*	*0.365*	*0.365*	*0.365*	*0.365*
75 %		*0.365*	*0.365*	*0.365*	*0.365*	*0.365*	*0.365*	*0.365*	*0.365*
90 %		*0.365*	*0.365*	*0.365*	*0.365*	*0.365*	*0.365*	*0.365*	*0.365*
None	D6 Ditch	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*

PEC$_{sw}$ (µg/L)	**Scenario**	**Step 4 M-03 (AE 0608000)**							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*
75 %		*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*
90 %		*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*
None	D6 Ditch 2nd	*0.489*	*0.489*	*0.489*	*0.489*	*0.489*	*0.489*	*0.489*	*0.489*
50 %		*0.489*	*0.489*	*0.489*	*0.489*	*0.489*	*0.489*	*0.489*	*0.489*
75 %		*0.489*	*0.489*	*0.489*	*0.489*	*0.489*	*0.489*	*0.489*	*0.489*
90 %		*0.489*	*0.489*	*0.489*	*0.489*	*0.489*	*0.489*	*0.489*	*0.489*
None	R1 Pond	*0.003*	*0.003*	*0.003*	*0.003*	*0.003*	*0.001*	*0.001*	*<0.001*
50 %		*0.003*	*0.003*	*0.003*	*0.003*	*0.003*	*0.001*	*0.001*	*<0.001*
75 %		*0.003*	*0.003*	*0.003*	*0.003*	*0.003*	*0.001*	*0.001*	*<0.001*
90 %		*0.003*	*0.003*	*0.003*	*0.003*	*0.003*	*0.001*	*0.001*	*<0.001*
None	R1 Stream	*0.097*	*0.097*	*0.097*	*0.097*	*0.097*	*0.043*	*0.043*	*0.023*
50 %		*0.097*	*0.097*	*0.097*	*0.097*	*0.097*	*0.043*	*0.043*	*0.023*
75 %		*0.097*	*0.097*	*0.097*	*0.097*	*0.097*	*0.043*	*0.043*	*0.023*
90 %		*0.097*	*0.097*	*0.097*	*0.097*	*0.097*	*0.043*	*0.043*	*0.023*
None	R2 Stream	*0.081*	*0.081*	*0.081*	*0.081*	*0.081*	*0.037*	*0.037*	*0.019*
50 %		*0.081*	*0.081*	*0.081*	*0.081*	*0.081*	*0.037*	*0.037*	*0.019*
75 %		*0.081*	*0.081*	*0.081*	*0.081*	*0.081*	*0.037*	*0.037*	*0.019*
90 %		*0.081*	*0.081*	*0.081*	*0.081*	*0.081*	*0.037*	*0.037*	*0.019*
None	R3 Stream	*0.086*	*0.086*	*0.086*	*0.086*	*0.086*	*0.039*	*0.039*	*0.021*
50 %		*0.086*	*0.086*	*0.086*	*0.086*	*0.086*	*0.039*	*0.039*	*0.021*
75 %		*0.086*	*0.086*	*0.086*	*0.086*	*0.086*	*0.039*	*0.039*	*0.021*
90 %		*0.086*	*0.086*	*0.086*	*0.086*	*0.086*	*0.039*	*0.039*	*0.021*

* Maximum values coming from multiple applications are marked in italics

Potatoes 4X - Late – 4 × 100 g a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 95: FOCUS Step 4 PECsw results for M-03 (AE 0608000), GAP group name potatoes 4X, assessment name Late (DGR I / PMT II)

PEC$_{sw}$ (µg/L)	**Scenario**	**Step 4 M-03 (AE 0608000)**							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*0.011*	*0.011*	*0.011*	*0.011*	*0.011*	*0.011*	*0.011*	*0.011*
50 %		*0.011*	*0.011*	*0.011*	*0.011*	*0.011*	*0.011*	*0.011*	*0.011*
75 %		*0.011*	*0.011*	*0.011*	*0.011*	*0.011*	*0.011*	*0.011*	*0.011*
90 %		*0.011*	*0.011*	*0.011*	*0.011*	*0.011*	*0.011*	*0.011*	*0.011*
None	D4 Pond	*0.150*	*0.150*	*0.150*	*0.150*	*0.150*	*0.150*	*0.150*	*0.150*
50 %		*0.150*	*0.150*	*0.150*	*0.150*	*0.150*	*0.150*	*0.150*	*0.150*
75 %		*0.150*	*0.150*	*0.150*	*0.150*	*0.150*	*0.150*	*0.150*	*0.150*
90 %		*0.150*	*0.150*	*0.150*	*0.150*	*0.150*	*0.150*	*0.150*	*0.150*
None	D4 Stream	*0.266*	*0.266*	*0.266*	*0.266*	*0.266*	*0.266*	*0.266*	*0.266*
50 %		*0.266*	*0.266*	*0.266*	*0.266*	*0.266*	*0.266*	*0.266*	*0.266*
75 %		*0.266*	*0.266*	*0.266*	*0.266*	*0.266*	*0.266*	*0.266*	*0.266*
90 %		*0.266*	*0.266*	*0.266*	*0.266*	*0.266*	*0.266*	*0.266*	*0.266*
None	D6 Ditch	*0.226*	*0.226*	*0.226*	*0.226*	*0.226*	*0.226*	*0.226*	*0.226*
50 %		*0.226*	*0.226*	*0.226*	*0.226*	*0.226*	*0.226*	*0.226*	*0.226*
75 %		*0.226*	*0.226*	*0.226*	*0.226*	*0.226*	*0.226*	*0.226*	*0.226*
90 %		*0.226*	*0.226*	*0.226*	*0.226*	*0.226*	*0.226*	*0.226*	*0.226*
None	D6 Ditch 2nd	*0.360*	*0.360*	*0.360*	*0.360*	*0.360*	*0.360*	*0.360*	*0.360*
50 %		*0.360*	*0.360*	*0.360*	*0.360*	*0.360*	*0.360*	*0.360*	*0.360*
75 %		*0.360*	*0.360*	*0.360*	*0.360*	*0.360*	*0.360*	*0.360*	*0.360*
90 %		*0.360*	*0.360*	*0.360*	*0.360*	*0.360*	*0.360*	*0.360*	*0.360*
None	R1 Pond	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*<0.001*	*<0.001*	*<0.001*
50 %		*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*<0.001*	*<0.001*	*<0.001*
75 %		*0.001*	*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	R1 Stream	*0.085*	*0.085*	*0.085*	*0.085*	*0.085*	*0.038*	*0.038*	*0.020*
50 %		*0.085*	*0.085*	*0.085*	*0.085*	*0.085*	*0.038*	*0.038*	*0.020*
75 %		*0.085*	*0.085*	*0.085*	*0.085*	*0.085*	*0.038*	*0.038*	*0.020*
90 %		*0.085*	*0.085*	*0.085*	*0.085*	*0.085*	*0.038*	*0.038*	*0.020*
None	R2 Stream	*0.092*	*0.092*	*0.092*	*0.092*	*0.092*	*0.042*	*0.042*	*0.022*
50 %		*0.092*	*0.092*	*0.092*	*0.092*	*0.092*	*0.042*	*0.042*	*0.022*
75 %		*0.092*	*0.092*	*0.092*	*0.092*	*0.092*	*0.042*	*0.042*	*0.022*
90 %		*0.092*	*0.092*	*0.092*	*0.092*	*0.092*	*0.042*	*0.042*	*0.022*
None	R3 Stream	*0.118*	*0.118*	*0.118*	*0.118*	*0.118*	*0.054*	*0.054*	*0.028*

PEC$_{sw}$ (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		*0.118*	*0.118*	*0.118*	*0.118*	*0.118*	*0.054*	*0.054*	*0.028*
75 %		*0.118*	*0.118*	*0.118*	*0.118*	*0.118*	*0.054*	*0.054*	*0.028*
90 %		*0.118*	*0.118*	*0.118*	*0.118*	*0.118*	*0.054*	*0.054*	*0.028*

* Maximum values coming from multiple applications are marked in italics

Potatoes 3X - Early – 3 × 100 g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 96: FOCUS Step 4 PECsw results for M-03 (AE 0608000), GAP group name potatoes 3X, assessment name Early (DGR II / PMT III)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*0.014*	*0.014*	*0.014*	*0.014*	*0.014*	*0.014*	*0.014*	*0.014*
50 %		*0.014*	*0.014*	*0.014*	*0.014*	*0.014*	*0.014*	*0.014*	*0.014*
75 %		*0.014*	*0.014*	*0.014*	*0.014*	*0.014*	*0.014*	*0.014*	*0.014*
90 %		*0.014*	*0.014*	*0.014*	*0.014*	*0.014*	*0.014*	*0.014*	*0.014*
None	D4 Pond	*0.153*	*0.153*	*0.153*	*0.153*	*0.153*	*0.153*	*0.153*	*0.153*
50 %		*0.153*	*0.153*	*0.153*	*0.153*	*0.153*	*0.153*	*0.153*	*0.153*
75 %		*0.153*	*0.153*	*0.153*	*0.153*	*0.153*	*0.153*	*0.153*	*0.153*
90 %		*0.153*	*0.153*	*0.153*	*0.153*	*0.153*	*0.153*	*0.153*	*0.153*
None	D4 Stream	*0.272*	*0.272*	*0.272*	*0.272*	*0.272*	*0.272*	*0.272*	*0.272*
50 %		*0.272*	*0.272*	*0.272*	*0.272*	*0.272*	*0.272*	*0.272*	*0.272*
75 %		*0.272*	*0.272*	*0.272*	*0.272*	*0.272*	*0.272*	*0.272*	*0.272*
90 %		*0.272*	*0.272*	*0.272*	*0.272*	*0.272*	*0.272*	*0.272*	*0.272*
None	D6 Ditch	*0.144*	*0.144*	*0.144*	*0.144*	*0.144*	*0.144*	*0.144*	*0.144*
50 %		*0.144*	*0.144*	*0.144*	*0.144*	*0.144*	*0.144*	*0.144*	*0.144*
75 %		*0.144*	*0.144*	*0.144*	*0.144*	*0.144*	*0.144*	*0.144*	*0.144*
90 %		*0.144*	*0.144*	*0.144*	*0.144*	*0.144*	*0.144*	*0.144*	*0.144*
None	D6 Ditch 2nd	*0.364*	*0.364*	*0.364*	*0.364*	*0.364*	*0.364*	*0.364*	*0.364*
50 %		*0.364*	*0.364*	*0.364*	*0.364*	*0.364*	*0.364*	*0.364*	*0.364*
75 %		*0.364*	*0.364*	*0.364*	*0.364*	*0.364*	*0.364*	*0.364*	*0.364*
90 %		*0.364*	*0.364*	*0.364*	*0.364*	*0.364*	*0.364*	*0.364*	*0.364*
None	R1 Pond	*0.003*	*0.003*	*0.003*	*0.003*	*0.003*	*0.001*	*0.001*	*<0.001*
50 %		*0.003*	*0.003*	*0.003*	*0.003*	*0.003*	*0.001*	*0.001*	*<0.001*
75 %		*0.003*	*0.003*	*0.003*	*0.003*	*0.003*	*0.001*	*0.001*	*<0.001*

PEC$_{sw}$ (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
90 %		*0.003*	*0.003*	*0.003*	*0.003*	*0.003*	*0.001*	*0.001*	*<0.001*
None	R1 Stream	*0.067*	*0.067*	*0.067*	*0.067*	*0.067*	*0.030*	*0.030*	*0.016*
50 %		*0.067*	*0.067*	*0.067*	*0.067*	*0.067*	*0.030*	*0.030*	*0.016*
75 %		*0.067*	*0.067*	*0.067*	*0.067*	*0.067*	*0.030*	*0.030*	*0.016*
90 %		*0.067*	*0.067*	*0.067*	*0.067*	*0.067*	*0.030*	*0.030*	*0.016*
None	R2 Stream	*0.063*	*0.063*	*0.063*	*0.063*	*0.063*	*0.029*	*0.029*	*0.015*
50 %		*0.063*	*0.063*	*0.063*	*0.063*	*0.063*	*0.029*	*0.029*	*0.015*
75 %		*0.063*	*0.063*	*0.063*	*0.063*	*0.063*	*0.029*	*0.029*	*0.015*
90 %		*0.063*	*0.063*	*0.063*	*0.063*	*0.063*	*0.029*	*0.029*	*0.015*
None	R3 Stream	*0.069*	*0.069*	*0.069*	*0.069*	*0.069*	*0.031*	*0.031*	*0.017*
50 %		*0.069*	*0.069*	*0.069*	*0.069*	*0.069*	*0.031*	*0.031*	*0.017*
75 %		*0.069*	*0.069*	*0.069*	*0.069*	*0.069*	*0.031*	*0.031*	*0.017*
90 %		*0.069*	*0.069*	*0.069*	*0.069*	*0.069*	*0.031*	*0.031*	*0.017*

* Maximum values coming from multiple applications are marked in italics

Potatoes 3X - Late – 3 × 100 g a.s./ha, 7d int. (DGR II / PMT IV)

Table 9.2.5- 97: FOCUS Step 4 PECsw results for M-03 (AE 0608000), GAP group name potatoes 3X, assessment name Late (DGR II / PMT IV)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*0.007*	*0.007*	*0.007*	*0.007*	*0.007*	*0.007*	*0.007*	*0.007*
50 %		*0.007*	*0.007*	*0.007*	*0.007*	*0.007*	*0.007*	*0.007*	*0.007*
75 %		*0.007*	*0.007*	*0.007*	*0.007*	*0.007*	*0.007*	*0.007*	*0.007*
90 %		*0.007*	*0.007*	*0.007*	*0.007*	*0.007*	*0.007*	*0.007*	*0.007*
None	D4 Pond	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*
50 %		*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*
75 %		*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*
90 %		*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*
None	D4 Stream	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*
50 %		*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*
75 %		*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*
90 %		*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*	*0.191*
None	D6 Ditch	*0.161*	*0.161*	*0.161*	*0.161*	*0.161*	*0.161*	*0.161*	*0.161*

PEC_{sw} (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %	D6 Ditch 2nd	*0.161*	*0.161*	*0.161*	*0.161*	*0.161*	*0.161*	*0.161*	*0.161*
75 %		*0.161*	*0.161*	*0.161*	*0.161*	*0.161*	*0.161*	*0.161*	*0.161*
90 %		*0.161*	*0.161*	*0.161*	*0.161*	*0.161*	*0.161*	*0.161*	*0.161*
None	D6 Ditch 2nd	*0.326*	*0.326*	*0.326*	*0.326*	*0.326*	*0.326*	*0.326*	*0.326*
50 %		*0.326*	*0.326*	*0.326*	*0.326*	*0.326*	*0.326*	*0.326*	*0.326*
75 %		*0.326*	*0.326*	*0.326*	*0.326*	*0.326*	*0.326*	*0.326*	*0.326*
90 %		*0.326*	*0.326*	*0.326*	*0.326*	*0.326*	*0.326*	*0.326*	*0.326*
None	R1 Pond	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*
50 %		*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*
75 %		*<0.001*	*<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	R1 Stream	*0.054*	*0.054*	*0.054*	*0.054*	*0.054*	*0.024*	*0.024*	*0.013*
50 %		*0.054*	*0.054*	*0.054*	*0.054*	*0.054*	*0.024*	*0.024*	*0.013*
75 %		*0.054*	*0.054*	*0.054*	*0.054*	*0.054*	*0.024*	*0.024*	*0.013*
90 %		*0.054*	*0.054*	*0.054*	*0.054*	*0.054*	*0.024*	*0.024*	*0.013*
None	R2 Stream	*0.064*	*0.064*	*0.064*	*0.064*	*0.064*	*0.029*	*0.029*	*0.015*
50 %		*0.064*	*0.064*	*0.064*	*0.064*	*0.064*	*0.029*	*0.029*	*0.015*
75 %		*0.064*	*0.064*	*0.064*	*0.064*	*0.064*	*0.029*	*0.029*	*0.015*
90 %		*0.064*	*0.064*	*0.064*	*0.064*	*0.064*	*0.029*	*0.029*	*0.015*
None	R3 Stream	*0.109*	*0.109*	*0.109*	*0.109*	*0.109*	*0.050*	*0.050*	*0.026*
50 %		*0.109*	*0.109*	*0.109*	*0.109*	*0.109*	*0.050*	*0.050*	*0.026*
75 %		*0.109*	*0.109*	*0.109*	*0.109*	*0.109*	*0.050*	*0.050*	*0.026*
90 %		*0.109*	*0.109*	*0.109*	*0.109*	*0.109*	*0.050*	*0.050*	*0.026*

* Maximum values coming from multiple applications are marked in italics

Potatoes 2X - Early – 2 × 100 g a.s./ha, 7d int. (DGR III / PMT V)

Table 9.2.5- 98: FOCUS Step 4 PECsw results for M-03 (AE 0608000), GAP group name potatoes 2X, assessment name Early (DGR III / PMT V)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*0.008*	*0.008*	*0.008*	*0.008*	*0.008*	*0.008*	*0.008*	*0.008*
50 %		*0.008*	*0.008*	*0.008*	*0.008*	*0.008*	*0.008*	*0.008*	*0.008*
75 %		*0.008*	*0.008*	*0.008*	*0.008*	*0.008*	*0.008*	*0.008*	*0.008*
90 %		*0.008*	*0.008*	*0.008*	*0.008*	*0.008*	*0.008*	*0.008*	*0.008*
None	D4 Pond	*0.101*	*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	D4 Stream	*0.181*	*0.181*	*0.181*	*0.181*	*0.181*	*0.181*	*0.181*	*0.181*
50 %		*0.181*	*0.181*	*0.181*	*0.181*	*0.181*	*0.181*	*0.181*	*0.181*
75 %		*0.181*	*0.181*	*0.181*	*0.181*	*0.181*	*0.181*	*0.181*	*0.181*
90 %		*0.181*	*0.181*	*0.181*	*0.181*	*0.181*	*0.181*	*0.181*	*0.181*
None	D6 Ditch	*0.098*	*0.098*	*0.098*	*0.098*	*0.098*	*0.098*	*0.098*	*0.098*
50 %		*0.098*	*0.098*	*0.098*	*0.098*	*0.098*	*0.098*	*0.098*	*0.098*
75 %		*0.098*	*0.098*	*0.098*	*0.098*	*0.098*	*0.098*	*0.098*	*0.098*
90 %		*0.098*	*0.098*	*0.098*	*0.098*	*0.098*	*0.098*	*0.098*	*0.098*
None	D6 Ditch 2nd	*0.242*	*0.242*	*0.242*	*0.242*	*0.242*	*0.242*	*0.242*	*0.242*
50 %		*0.242*	*0.242*	*0.242*	*0.242*	*0.242*	*0.242*	*0.242*	*0.242*
75 %		*0.242*	*0.242*	*0.242*	*0.242*	*0.242*	*0.242*	*0.242*	*0.242*
90 %		*0.242*	*0.242*	*0.242*	*0.242*	*0.242*	*0.242*	*0.242*	*0.242*
None	R1 Pond	*0.002*	*0.002*	*0.002*	*0.002*	*0.002*	*<0.001*	*<0.001*	*<0.001*
50 %		*0.002*	*0.002*	*0.002*	*0.002*	*0.002*	*<0.001*	*<0.001*	*<0.001*
75 %		*0.002*	*0.002*	*0.002*	*0.002*	*0.002*	*<0.001*	*<0.001*	*<0.001*
90 %		*0.002*	*0.002*	*0.002*	*0.002*	*0.002*	*<0.001*	*<0.001*	*<0.001*
None	R1 Stream	*0.054*	*0.054*	*0.054*	*0.054*	*0.054*	*0.024*	*0.024*	*0.013*
50 %		*0.054*	*0.054*	*0.054*	*0.054*	*0.054*	*0.024*	*0.024*	*0.013*
75 %		*0.054*	*0.054*	*0.054*	*0.054*	*0.054*	*0.024*	*0.024*	*0.013*
90 %		*0.054*	*0.054*	*0.054*	*0.054*	*0.054*	*0.024*	*0.024*	*0.013*
None	R2 Stream	*0.040*	*0.040*	*0.040*	*0.040*	*0.040*	*0.018*	*0.018*	*0.010*
50 %		*0.040*	*0.040*	*0.040*	*0.040*	*0.040*	*0.018*	*0.018*	*0.010*
75 %		*0.040*	*0.040*	*0.040*	*0.040*	*0.040*	*0.018*	*0.018*	*0.010*
90 %		*0.040*	*0.040*	*0.040*	*0.040*	*0.040*	*0.018*	*0.018*	*0.010*
None	R3 Stream	*0.040*	*0.040*	*0.040*	*0.040*	*0.040*	*0.018*	*0.018*	*0.010*

PEC$_{sw}$ (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		*0.040*	*0.040*	*0.040*	*0.040*	*0.040*	*0.018*	*0.018*	*0.010*
75 %		*0.040*	*0.040*	*0.040*	*0.040*	*0.040*	*0.018*	*0.018*	*0.010*
90 %		*0.040*	*0.040*	*0.040*	*0.040*	*0.040*	*0.018*	*0.018*	*0.010*

* Maximum values coming from multiple applications are marked in italics

Potatoes 2X - Late – 2 × 100 g a.s./ha, 7d int. (DGR III / PMT VI)

Table 9.2.5- 99: FOCUS Step 4 PECsw results for M-03 (AE 0608000), GAP group name potatoes 2X, assessment name Late (DGR III / PMT VI)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*
50 %		*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*
75 %		*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*
90 %		*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*
None	D4 Pond	*0.075*	*0.075*	*0.075*	*0.075*	*0.075*	*0.075*	*0.075*	*0.075*
50 %		*0.075*	*0.075*	*0.075*	*0.075*	*0.075*	*0.075*	*0.075*	*0.075*
75 %		*0.075*	*0.075*	*0.075*	*0.075*	*0.075*	*0.075*	*0.075*	*0.075*
90 %		*0.075*	*0.075*	*0.075*	*0.075*	*0.075*	*0.075*	*0.075*	*0.075*
None	D4 Stream	*0.133*	*0.133*	*0.133*	*0.133*	*0.133*	*0.133*	*0.133*	*0.133*
50 %		*0.133*	*0.133*	*0.133*	*0.133*	*0.133*	*0.133*	*0.133*	*0.133*
75 %		*0.133*	*0.133*	*0.133*	*0.133*	*0.133*	*0.133*	*0.133*	*0.133*
90 %		*0.133*	*0.133*	*0.133*	*0.133*	*0.133*	*0.133*	*0.133*	*0.133*
None	D6 Ditch	*0.100*	*0.100*	*0.100*	*0.100*	*0.100*	*0.100*	*0.100*	*0.100*
50 %		*0.100*	*0.100*	*0.100*	*0.100*	*0.100*	*0.100*	*0.100*	*0.100*
75 %		*0.100*	*0.100*	*0.100*	*0.100*	*0.100*	*0.100*	*0.100*	*0.100*
90 %		*0.100*	*0.100*	*0.100*	*0.100*	*0.100*	*0.100*	*0.100*	*0.100*
None	D6 Ditch 2nd	*0.243*	*0.243*	*0.243*	*0.243*	*0.243*	*0.243*	*0.243*	*0.243*
50 %		*0.243*	*0.243*	*0.243*	*0.243*	*0.243*	*0.243*	*0.243*	*0.243*
75 %		*0.243*	*0.243*	*0.243*	*0.243*	*0.243*	*0.243*	*0.243*	*0.243*
90 %		*0.243*	*0.243*	*0.243*	*0.243*	*0.243*	*0.243*	*0.243*	*0.243*
None	R1 Pond	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*
50 %		*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*
75 %		*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*

PECsw (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
90 %		*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*
None	R1 Stream	*0.041*	*0.041*	*0.041*	*0.041*	*0.041*	*0.018*	*0.018*	*0.009*
50 %		*0.041*	*0.041*	*0.041*	*0.041*	*0.041*	*0.018*	*0.018*	*0.009*
75 %		*0.041*	*0.041*	*0.041*	*0.041*	*0.041*	*0.018*	*0.018*	*0.009*
90 %		*0.041*	*0.041*	*0.041*	*0.041*	*0.041*	*0.018*	*0.018*	*0.009*
None	R2 Stream	*0.043*	*0.043*	*0.043*	*0.043*	*0.043*	*0.020*	*0.020*	*0.010*
50 %		*0.043*	*0.043*	*0.043*	*0.043*	*0.043*	*0.020*	*0.020*	*0.010*
75 %		*0.043*	*0.043*	*0.043*	*0.043*	*0.043*	*0.020*	*0.020*	*0.010*
90 %		*0.043*	*0.043*	*0.043*	*0.043*	*0.043*	*0.020*	*0.020*	*0.010*
None	R3 Stream	*0.083*	*0.083*	*0.083*	*0.083*	*0.083*	*0.038*	*0.038*	*0.020*
50 %		*0.083*	*0.083*	*0.083*	*0.083*	*0.083*	*0.038*	*0.038*	*0.020*
75 %		*0.083*	*0.083*	*0.083*	*0.083*	*0.083*	*0.038*	*0.038*	*0.020*
90 %		*0.083*	*0.083*	*0.083*	*0.083*	*0.083*	*0.038*	*0.038*	*0.020*

* Maximum values coming from multiple applications are marked in italics

Potatoes 1X - Early – 100 g a.s./ha (DGR IV / PMT VII)

Table 9.2.5- 100: FOCUS Step 4 PECsw results for M-03 (AE 0608000), GAP group name potatoes 1X, assessment name Early (DGR IV / PMT VII)

PECsw (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
50 %		0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
75 %		0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
90 %		0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
None	D4 Pond	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
50 %		0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
75 %		0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
90 %		0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
None	D4 Stream	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091
50 %		0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091
75 %		0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091
90 %		0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091
None	D6 Ditch	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051

PEC_{sw} (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051
75 %		0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051
90 %		0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051
None	D6 Ditch 2nd	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121
50 %		0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121
75 %		0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121
90 %		0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121
None	R1 Pond	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
50 %		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
75 %		<0.001	<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	R1 Stream	0.022	0.022	0.022	0.022	0.022	0.010	0.010	0.005
50 %		0.022	0.022	0.022	0.022	0.022	0.010	0.010	0.005
75 %		0.022	0.022	0.022	0.022	0.022	0.010	0.010	0.005
90 %		0.022	0.022	0.022	0.022	0.022	0.010	0.010	0.005
None	R2 Stream	0.020	0.020	0.020	0.020	0.020	0.009	0.009	0.005
50 %		0.020	0.020	0.020	0.020	0.020	0.009	0.009	0.005
75 %		0.020	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	R3 Stream	0.016	0.016	0.016	0.016	0.016	0.007	0.007	0.004
50 %		0.016	0.016	0.016	0.016	0.016	0.007	0.007	0.004
75 %		0.016	0.016	0.016	0.016	0.016	0.007	0.007	0.004
90 %		0.016	0.016	0.016	0.016	0.016	0.007	0.007	0.004

Potatoes 1X - Late – 100 g a.s./ha (DGR IV / PMT VIII)

Table 9.2.5- 101: FOCUS Step 4 PECsw results for M-03 (AE 0608000), GAP group name potatoes 1X, assessment name Late (DGR IV / PMT VIII)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
50 %		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
75 %		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
90 %		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
None	D4 Pond	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039
50 %		0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039
75 %		0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039
90 %		0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039
None	D4 Stream	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069
50 %		0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069
75 %		0.069	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	D6 Ditch	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051
50 %		0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051
75 %		0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051
90 %		0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051
None	D6 Ditch 2nd	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114
50 %		0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114
75 %		0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114
90 %		0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114
None	R1 Pond	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
50 %		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
75 %		<0.001	<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	R1 Stream	0.019	0.019	0.019	0.019	0.019	0.009	0.009	0.005
50 %		0.019	0.019	0.019	0.019	0.019	0.009	0.009	0.005
75 %		0.019	0.019	0.019	0.019	0.019	0.009	0.009	0.005
90 %		0.019	0.019	0.019	0.019	0.019	0.009	0.009	0.005
None	R2 Stream	0.020	0.020	0.020	0.020	0.020	0.009	0.009	0.005
50 %		0.020	0.020	0.020	0.020	0.020	0.009	0.009	0.005
75 %		0.020	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	R3 Stream	0.046	0.046	0.046	0.046	0.046	0.021	0.021	0.011

PEC$_{sw}$ (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		0.046	0.046	0.046	0.046	0.046	0.021	0.021	0.011
75 %		0.046	0.046	0.046	0.046	0.046	0.021	0.021	0.011
90 %		0.046	0.046	0.046	0.046	0.046	0.021	0.021	0.011

FOCUS Step 4 PECsed

Parent substance fluopicolide

Potatoes 4X - Early – 4 × 100 g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 102: FOCUS Step 4 PECsed results for fluopicolide, GAP group name potatoes 4X, assessment name Early (DGR I / PMT I)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.246	0.088	0.053	0.052	0.051	0.053	0.052	0.051
50 %		0.130	0.053	0.051	0.050	0.049	0.051	0.050	0.049
75 %		0.070	0.050	0.049	0.049	0.049	0.049	0.049	0.049
90 %		0.051	0.049	0.048	0.048	0.048	0.048	0.048	0.048
None	D4 Pond	18.1	18.0	18.0	18.0	18.0	18.0	18.0	18.0
50 %		18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
75 %		18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
90 %		18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
None	D4 Stream	6.32	6.32	6.32	6.32	6.32	6.32	6.32	6.32
50 %		6.32	6.32	6.32	6.32	6.32	6.32	6.32	6.32
75 %		6.32	6.32	6.32	6.32	6.32	6.32	6.32	6.32
90 %		6.32	6.32	6.32	6.32	6.32	6.32	6.32	6.32
None	D6 Ditch	3.10	3.10	3.09	3.09	3.09	3.09	3.09	3.09
50 %		3.10	3.09	3.09	3.09	3.09	3.09	3.09	3.09
75 %		3.10	3.09	3.09	3.09	3.09	3.09	3.09	3.09
90 %		3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09
None	D6 Ditch 2nd	7.56	7.55	7.54	7.54	7.54	7.54	7.54	7.54
50 %		7.55	7.54	7.54	7.54	7.54	7.54	7.54	7.54
75 %		7.55	7.54	7.54	7.54	7.54	7.54	7.54	7.54
90 %		7.54	7.54	7.54	7.54	7.54	7.54	7.54	7.54

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	R1 Pond	*1.43*	*1.42*	*1.37*	*1.35*	*1.34*	*0.657*	*0.633*	*0.363*
50 %		*1.35*	*1.34*	*1.32*	*1.31*	*1.30*	*0.599*	*0.587*	*0.323*
75 %		*1.31*	*1.30*	*1.29*	*1.28*	*1.28*	*0.570*	*0.564*	*0.303*
90 %		*1.28*	*1.28*	*1.27*	*1.27*	*1.27*	*0.553*	*0.550*	*0.291*
None	R1 Stream	*1.37*	*1.36*	*1.36*	*1.36*	*1.36*	*0.572*	*0.572*	*0.301*
50 %		*1.36*	*1.36*	*1.36*	*1.36*	*1.36*	*0.571*	*0.571*	*0.300*
75 %		*1.36*	*1.36*	*1.36*	*1.36*	*1.36*	*0.571*	*0.571*	*0.300*
90 %		*1.36*	*1.36*	*1.36*	*1.36*	*1.36*	*0.571*	*0.571*	*0.300*
None	R2 Stream	*1.53*	*1.53*	*1.53*	*1.52*	*1.52*	*0.543*	*0.542*	*0.275*
50 %		*1.53*	*1.52*	*1.52*	*1.52*	*1.52*	*0.542*	*0.542*	*0.275*
75 %		*1.53*	*1.52*	*1.52*	*1.52*	*1.52*	*0.542*	*0.541*	*0.275*
90 %		*1.52*	*1.52*	*1.52*	*1.52*	*1.52*	*0.541*	*0.541*	*0.275*
None	R3 Stream	*2.08*	*2.06*	*2.05*	*2.05*	*2.04*	*0.875*	*0.872*	*0.463*
50 %		*2.06*	*2.05*	*2.04*	*2.04*	*2.04*	*0.870*	*0.869*	*0.460*
75 %		*2.05*	*2.04*	*2.04*	*2.04*	*2.04*	*0.868*	*0.867*	*0.459*
90 %		*2.04*	*2.04*	*2.04*	*2.04*	*2.04*	*0.867*	*0.866*	*0.458*

* Maximum values coming from multiple applications are marked in italics

Potatoes 4X - Late – 4× 100 g a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5-103: FOCUS Step 4 PECsed results for fluopicolide, GAP group name potatoes 4X, assessment name Late (DGR I / PMT II)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*0.264*	*0.091*	*0.050*	*0.035*	*0.027*	*0.050*	*0.035*	*0.027*
50 %		*0.137*	*0.048*	*0.026*	*0.018*	*0.014*	*0.026*	*0.018*	*0.014*
75 %		*0.071*	*0.025*	*0.014*	*0.012*	*0.012*	*0.014*	*0.012*	*0.012*
90 %		*0.030*	*0.012*	*0.011*	*0.011*	*0.011*	*0.011*	*0.011*	*0.011*
None	D4 Pond	*17.0*	*16.9*	*16.9*	*16.9*	*16.9*	*16.9*	*16.9*	*16.9*
50 %		*16.9*	*16.9*	*16.9*	*16.9*	*16.9*	*16.9*	*16.9*	*16.9*
75 %		*16.9*	*16.9*	*16.8*	*16.8*	*16.8*	*16.8*	*16.8*	*16.8*
90 %		*16.8*	*16.8*	*16.8*	*16.8*	*16.8*	*16.8*	*16.8*	*16.8*
None	D4 Stream	*6.07*	*6.07*	*6.07*	*6.07*	*6.07*	*6.07*	*6.07*	*6.07*
50 %		*6.07*	*6.07*	*6.07*	*6.07*	*6.07*	*6.07*	*6.07*	*6.07*

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
75 %		*6.07*	*6.07*	*6.07*	*6.07*	*6.07*	*6.07*	*6.07*	*6.07*
90 %		*6.07*	*6.07*	*6.07*	*6.07*	*6.07*	*6.07*	*6.07*	*6.07*
None	D6 Ditch	*4.10*	*4.10*	*4.09*	*4.09*	*4.09*	*4.09*	*4.09*	*4.09*
50 %		*4.10*	*4.09*	*4.09*	*4.09*	*4.09*	*4.09*	*4.09*	*4.09*
75 %		*4.09*	*4.09*	*4.09*	*4.09*	*4.09*	*4.09*	*4.09*	*4.09*
90 %		*4.09*	*4.09*	*4.09*	*4.09*	*4.09*	*4.09*	*4.09*	*4.09*
None	D6 Ditch 2nd	*12.6*	*12.5*	*12.5*	*12.5*	*12.5*	*12.5*	*12.5*	*12.5*
50 %		*12.6*	*12.5*	*12.5*	*12.5*	*12.5*	*12.5*	*12.5*	*12.5*
75 %		*12.5*	*12.5*	*12.5*	*12.5*	*12.5*	*12.5*	*12.5*	*12.5*
90 %		*12.5*	*12.5*	*12.5*	*12.5*	*12.5*	*12.5*	*12.5*	*12.5*
None	R1 Pond	*0.736*	*0.717*	*0.674*	*0.651*	*0.637*	*0.367*	*0.344*	*0.213*
50 %		*0.650*	*0.641*	*0.619*	*0.608*	*0.601*	*0.309*	*0.297*	*0.173*
75 %		*0.607*	*0.602*	*0.592*	*0.586*	*0.582*	*0.280*	*0.274*	*0.153*
90 %		*0.581*	*0.579*	*0.575*	*0.573*	*0.571*	*0.262*	*0.260*	*0.141*
None	R1 Stream	*0.643*	*0.637*	*0.635*	*0.634*	*0.634*	*0.290*	*0.289*	*0.154*
50 %		*0.638*	*0.635*	*0.634*	*0.633*	*0.633*	*0.289*	*0.289*	*0.154*
75 %		*0.635*	*0.634*	*0.633*	*0.633*	*0.633*	*0.288*	*0.288*	*0.153*
90 %		*0.634*	*0.633*	*0.633*	*0.633*	*0.632*	*0.288*	*0.288*	*0.153*
None	R2 Stream	*1.94*	*1.93*	*1.93*	*1.93*	*1.93*	*0.629*	*0.629*	*0.312*
50 %		*1.93*	*1.93*	*1.93*	*1.93*	*1.93*	*0.628*	*0.628*	*0.311*
75 %		*1.93*	*1.93*	*1.93*	*1.93*	*1.93*	*0.628*	*0.627*	*0.311*
90 %		*1.93*	*1.93*	*1.93*	*1.93*	*1.93*	*0.627*	*0.627*	*0.311*
None	R3 Stream	*3.08*	*3.06*	*3.05*	*3.05*	*3.05*	*1.17*	*1.17*	*0.604*
50 %		*3.06*	*3.05*	*3.05*	*3.05*	*3.05*	*1.16*	*1.16*	*0.602*
75 %		*3.05*	*3.05*	*3.05*	*3.05*	*3.05*	*1.16*	*1.16*	*0.601*
90 %		*3.05*	*3.05*	*3.05*	*3.05*	*3.05*	*1.16*	*1.16*	*0.600*

* Maximum values coming from multiple applications are marked in italics

Potatoes 3X - Early – 3 × 100 g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 104: FOCUS Step 4 PECsed results for fluopicolide, GAP group name potatoes 3X, assessment name Early (DGR II / PMT III)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*0.225*	*0.078*	*0.043*	*0.031*	*0.027*	*0.043*	*0.031*	*0.027*
50 %		*0.117*	*0.041*	*0.027*	*0.026*	*0.026*	*0.027*	*0.026*	*0.026*
75 %		*0.062*	*0.027*	*0.026*	*0.026*	*0.025*	*0.026*	*0.026*	*0.025*
90 %		*0.028*	*0.026*	*0.025*	*0.025*	*0.025*	*0.025*	*0.025*	*0.025*
None	D4 Pond	*13.1*	*13.1*	*13.1*	*13.1*	*13.1*	*13.1*	*13.1*	*13.1*
50 %		*13.1*	*13.1*	*13.0*	*13.0*	*13.0*	*13.0*	*13.0*	*13.0*
75 %		*13.0*	*13.0*	*13.0*	*13.0*	*13.0*	*13.0*	*13.0*	*13.0*
90 %		*13.0*	*13.0*	*13.0*	*13.0*	*13.0*	*13.0*	*13.0*	*13.0*
None	D4 Stream	*4.61*	*4.61*	*4.61*	*4.61*	*4.61*	*4.61*	*4.61*	*4.61*
50 %		*4.61*	*4.61*	*4.61*	*4.61*	*4.61*	*4.61*	*4.61*	*4.61*
75 %		*4.61*	*4.61*	*4.61*	*4.61*	*4.61*	*4.61*	*4.61*	*4.61*
90 %		*4.61*	*4.61*	*4.61*	*4.61*	*4.61*	*4.61*	*4.61*	*4.61*
None	D6 Ditch	*2.28*	*2.28*	*2.28*	*2.28*	*2.28*	*2.28*	*2.28*	*2.28*
50 %		*2.28*	*2.28*	*2.28*	*2.28*	*2.28*	*2.28*	*2.28*	*2.28*
75 %		*2.28*	*2.28*	*2.28*	*2.28*	*2.28*	*2.28*	*2.28*	*2.28*
90 %		*2.28*	*2.28*	*2.28*	*2.28*	*2.28*	*2.28*	*2.28*	*2.28*
None	D6 Ditch 2nd	*5.37*	*5.36*	*5.35*	*5.35*	*5.35*	*5.35*	*5.35*	*5.35*
50 %		*5.36*	*5.35*	*5.35*	*5.35*	*5.35*	*5.35*	*5.35*	*5.35*
75 %		*5.35*	*5.35*	*5.35*	*5.35*	*5.35*	*5.35*	*5.35*	*5.35*
90 %		*5.35*	*5.35*	*5.35*	*5.35*	*5.35*	*5.35*	*5.35*	*5.35*
None	R1 Pond	*1.16*	*1.15*	*1.11*	*1.09*	*1.08*	*0.531*	*0.512*	*0.292*
50 %		*1.09*	*1.09*	*1.07*	*1.06*	*1.05*	*0.485*	*0.475*	*0.260*
75 %		*1.06*	*1.05*	*1.05*	*1.04*	*1.04*	*0.461*	*0.457*	*0.245*
90 %		*1.04*	*1.04*	*1.03*	*1.03*	*1.03*	*0.447*	*0.445*	*0.235*
None	R1 Stream	*1.37*	*1.36*	*1.36*	*1.36*	*1.36*	*0.572*	*0.572*	*0.301*
50 %		*1.36*	*1.36*	*1.36*	*1.36*	*1.36*	*0.571*	*0.571*	*0.300*
75 %		*1.36*	*1.36*	*1.36*	*1.36*	*1.36*	*0.571*	*0.571*	*0.300*
90 %		*1.36*	*1.36*	*1.36*	*1.36*	*1.36*	*0.571*	*0.571*	*0.300*
None	R2 Stream	*0.979*	*0.977*	*0.976*	*0.975*	*0.975*	*0.382*	*0.381*	*0.198*
50 %		*0.977*	*0.976*	*0.975*	*0.975*	*0.975*	*0.381*	*0.381*	*0.198*
75 %		*0.976*	*0.975*	*0.975*	*0.975*	*0.975*	*0.381*	*0.381*	*0.197*
90 %		*0.975*	*0.975*	*0.975*	*0.975*	*0.975*	*0.381*	*0.381*	*0.197*
None	R3 Stream	*1.19*	*1.18*	*1.17*	*1.17*	*1.17*	*0.518*	*0.516*	*0.275*

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		*1.18*	*1.17*	*1.17*	*1.17*	*1.17*	*0.515*	*0.514*	*0.274*
75 %		*1.17*	*1.17*	*1.17*	*1.17*	*1.17*	*0.513*	*0.513*	*0.273*
90 %		*1.17*	*1.17*	*1.17*	*1.17*	*1.17*	*0.513*	*0.512*	*0.273*

* Maximum values coming from multiple applications are marked in italics

Potatoes 3X - Late – 3 × 100 g a.s./ha, 7d int. (DGR II / PMT IV)

Table 9.2.5- 105: FOCUS Step 4 PECsed results for fluopicolide, GAP group name potatoes 3X, assessment name Late (DGR II / PMT IV)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*0.242*	*0.082*	*0.045*	*0.031*	*0.024*	*0.045*	*0.031*	*0.024*
50 %		*0.125*	*0.043*	*0.023*	*0.016*	*0.012*	*0.023*	*0.016*	*0.012*
75 %		*0.065*	*0.022*	*0.012*	*0.009*	*0.007*	*0.012*	*0.009*	*0.007*
90 %		*0.027*	*0.009*	*0.006*	*0.006*	*0.006*	*0.006*	*0.006*	*0.006*
None	D4 Pond	*12.2*	*12.2*	*12.2*	*12.2*	*12.2*	*12.2*	*12.2*	*12.2*
50 %		*12.2*	*12.2*	*12.2*	*12.2*	*12.2*	*12.2*	*12.2*	*12.2*
75 %		*12.2*	*12.2*	*12.1*	*12.1*	*12.1*	*12.1*	*12.1*	*12.1*
90 %		*12.1*	*12.1*	*12.1*	*12.1*	*12.1*	*12.1*	*12.1*	*12.1*
None	D4 Stream	*4.42*	*4.42*	*4.42*	*4.42*	*4.42*	*4.42*	*4.42*	*4.42*
50 %		*4.42*	*4.42*	*4.42*	*4.42*	*4.42*	*4.42*	*4.42*	*4.42*
75 %		*4.42*	*4.42*	*4.42*	*4.42*	*4.42*	*4.42*	*4.42*	*4.42*
90 %		*4.42*	*4.42*	*4.42*	*4.42*	*4.42*	*4.42*	*4.42*	*4.42*
None	D6 Ditch	*2.73*	*2.72*	*2.72*	*2.72*	*2.72*	*2.72*	*2.72*	*2.72*
50 %		*2.72*	*2.72*	*2.72*	*2.72*	*2.72*	*2.72*	*2.72*	*2.72*
75 %		*2.72*	*2.72*	*2.72*	*2.72*	*2.72*	*2.72*	*2.72*	*2.72*
90 %		*2.72*	*2.72*	*2.72*	*2.72*	*2.72*	*2.72*	*2.72*	*2.72*
None	D6 Ditch 2nd	*10.5*	*10.5*	*10.5*	*10.5*	*10.5*	*10.5*	*10.5*	*10.5*
50 %		*10.5*	*10.5*	*10.5*	*10.5*	*10.5*	*10.5*	*10.5*	*10.5*
75 %		*10.5*	*10.5*	*10.5*	*10.5*	*10.5*	*10.5*	*10.5*	*10.5*
90 %		*10.5*	*10.5*	*10.5*	*10.5*	*10.5*	*10.5*	*10.5*	*10.5*
None	R1 Pond	*0.462*	*0.447*	*0.411*	*0.393*	*0.381*	*0.238*	*0.218*	*0.141*
50 %		*0.392*	*0.384*	*0.367*	*0.357*	*0.352*	*0.190*	*0.181*	*0.108*
75 %		*0.357*	*0.353*	*0.344*	*0.340*	*0.337*	*0.167*	*0.162*	*0.092*

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
90 %		*0.336*	*0.335*	*0.331*	*0.329*	*0.328*	*0.153*	*0.151*	*0.082*
None	R1 Stream	*0.366*	*0.362*	*0.360*	*0.360*	*0.359*	*0.165*	*0.164*	*0.088*
50 %		*0.362*	*0.360*	*0.359*	*0.359*	*0.359*	*0.164*	*0.164*	*0.087*
75 %		*0.360*	*0.359*	*0.359*	*0.359*	*0.359*	*0.164*	*0.163*	*0.087*
90 %		*0.359*	*0.359*	*0.359*	*0.358*	*0.358*	*0.163*	*0.163*	*0.087*
None	R2 Stream	*1.24*	*1.24*	*1.24*	*1.24*	*1.24*	*0.421*	*0.421*	*0.211*
50 %		*1.24*	*1.24*	*1.24*	*1.24*	*1.24*	*0.421*	*0.420*	*0.211*
75 %		*1.24*	*1.24*	*1.24*	*1.24*	*1.24*	*0.420*	*0.420*	*0.211*
90 %		*1.24*	*1.24*	*1.24*	*1.24*	*1.24*	*0.420*	*0.420*	*0.211*
None	R3 Stream	*2.49*	*2.47*	*2.46*	*2.46*	*2.46*	*0.954*	*0.951*	*0.494*
50 %		*2.47*	*2.46*	*2.46*	*2.45*	*2.45*	*0.950*	*0.948*	*0.492*
75 %		*2.46*	*2.46*	*2.45*	*2.45*	*2.45*	*0.948*	*0.947*	*0.491*
90 %		*2.46*	*2.45*	*2.45*	*2.45*	*2.45*	*0.946*	*0.946*	*0.490*

* Maximum values coming from multiple applications are marked in italics

Potatoes 2X - Early – 2 × 100 g a.s./ha, 7d int. (DGR III / PMT V)

Table 9.2.5- 106: FOCUS Step 4 PECsed results for fluopicolide, GAP group name potatoes 2X, assessment name Early (DGR III / PMT V)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*0.228*	*0.076*	*0.041*	*0.029*	*0.022*	*0.041*	*0.029*	*0.022*
50 %		*0.118*	*0.040*	*0.022*	*0.015*	*0.012*	*0.022*	*0.015*	*0.012*
75 %		*0.061*	*0.021*	*0.012*	*0.009*	*0.009*	*0.012*	*0.009*	*0.009*
90 %		*0.026*	*0.009*	*0.009*	*0.009*	*0.009*	*0.009*	*0.009*	*0.009*
None	D4 Pond	*8.54*	*8.53*	*8.51*	*8.51*	*8.50*	*8.51*	*8.51*	*8.50*
50 %		*8.51*	*8.50*	*8.49*	*8.49*	*8.48*	*8.49*	*8.49*	*8.48*
75 %		*8.49*	*8.49*	*8.48*	*8.48*	*8.48*	*8.48*	*8.48*	*8.48*
90 %		*8.48*	*8.48*	*8.47*	*8.47*	*8.47*	*8.47*	*8.47*	*8.47*
None	D4 Stream	*3.03*	*3.03*	*3.03*	*3.03*	*3.03*	*3.03*	*3.03*	*3.03*
50 %		*3.03*	*3.03*	*3.03*	*3.03*	*3.03*	*3.03*	*3.03*	*3.03*
75 %		*3.03*	*3.03*	*3.03*	*3.03*	*3.03*	*3.03*	*3.03*	*3.03*
90 %		*3.03*	*3.03*	*3.03*	*3.03*	*3.03*	*3.03*	*3.03*	*3.03*
None	D6 Ditch	*1.50*	*1.50*	*1.50*	*1.50*	*1.50*	*1.50*	*1.50*	*1.50*

PEC_{sed} (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		*1.50*	*1.50*	*1.50*	*1.50*	*1.50*	*1.50*	*1.50*	*1.50*
75 %		*1.50*	*1.50*	*1.50*	*1.50*	*1.50*	*1.50*	*1.50*	*1.50*
90 %		*1.50*	*1.50*	*1.50*	*1.50*	*1.50*	*1.50*	*1.50*	*1.50*
None	D6 Ditch 2nd	*3.40*	*3.39*	*3.39*	*3.39*	*3.39*	*3.39*	*3.39*	*3.39*
50 %		*3.39*	*3.39*	*3.39*	*3.39*	*3.39*	*3.39*	*3.39*	*3.39*
75 %		*3.39*	*3.39*	*3.39*	*3.39*	*3.39*	*3.39*	*3.39*	*3.39*
90 %		*3.39*	*3.39*	*3.39*	*3.39*	*3.39*	*3.39*	*3.39*	*3.39*
None	R1 Pond	*0.840*	*0.828*	*0.800*	*0.786*	*0.777*	*0.387*	*0.372*	*0.214*
50 %		*0.786*	*0.780*	*0.766*	*0.759*	*0.754*	*0.351*	*0.343*	*0.189*
75 %		*0.759*	*0.756*	*0.749*	*0.745*	*0.743*	*0.333*	*0.329*	*0.177*
90 %		*0.742*	*0.741*	*0.738*	*0.737*	*0.736*	*0.322*	*0.320*	*0.169*
None	R1 Stream	0.764	0.758	0.756	0.756	0.755	0.300	0.299	0.156
50 %		0.759	0.756	0.755	0.755	0.755	0.299	0.299	0.155
75 %		0.757	0.755	0.755	0.755	0.754	0.298	0.298	0.155
90 %		0.755	0.755	0.754	0.754	0.754	0.298	0.298	0.155
None	R2 Stream	*0.599*	*0.597*	*0.596*	*0.596*	*0.596*	*0.239*	*0.239*	*0.125*
50 %		*0.597*	*0.596*	*0.596*	*0.595*	*0.595*	*0.239*	*0.238*	*0.124*
75 %		*0.596*	*0.596*	*0.595*	*0.595*	*0.595*	*0.238*	*0.238*	*0.124*
90 %		*0.596*	*0.595*	*0.595*	*0.595*	*0.595*	*0.238*	*0.238*	*0.124*
None	R3 Stream	*0.889*	*0.871*	*0.865*	*0.863*	*0.862*	*0.397*	*0.395*	*0.212*
50 %		*0.874*	*0.865*	*0.862*	*0.861*	*0.860*	*0.394*	*0.393*	*0.210*
75 %		*0.866*	*0.862*	*0.860*	*0.860*	*0.859*	*0.392*	*0.392*	*0.209*
90 %		*0.862*	*0.860*	*0.859*	*0.859*	*0.859*	*0.391*	*0.391*	*0.208*

* Maximum values coming from multiple applications are marked in italics

Potatoes 2X - Late – 2 × 100 g a.s./ha, 7d int. (DGR III / PMT VI)

Table 9.2.5- 107: FOCUS Step 4 PECsed results for fluopicolide, GAP group name potatoes 2X, assessment name Late (DGR III / PMT VI)

PEC_{sed} (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*0.246*	*0.082*	*0.044*	*0.030*	*0.023*	*0.044*	*0.030*	*0.023*
50 %		*0.127*	*0.043*	*0.023*	*0.016*	*0.012*	*0.023*	*0.016*	*0.012*
75 %		*0.066*	*0.022*	*0.012*	*0.008*	*0.006*	*0.012*	*0.008*	*0.006*
90 %		*0.028*	*0.009*	*0.005*	*0.003*	*0.003*	*0.005*	*0.003*	*0.003*
None	D4 Pond	*8.23*	*8.22*	*8.20*	*8.19*	*8.18*	*8.20*	*8.19*	*8.18*
50 %		*8.19*	*8.19*	*8.18*	*8.17*	*8.17*	*8.18*	*8.17*	*8.17*
75 %		*8.17*	*8.17*	*8.16*	*8.16*	*8.16*	*8.16*	*8.16*	*8.16*
90 %		*8.16*	*8.16*	*8.15*	*8.15*	*8.15*	*8.15*	*8.15*	*8.15*
None	D4 Stream	*3.00*	*3.00*	*3.00*	*3.00*	*3.00*	*3.00*	*3.00*	*3.00*
50 %		*3.00*	*3.00*	*3.00*	*3.00*	*3.00*	*3.00*	*3.00*	*3.00*
75 %		*3.00*	*3.00*	*3.00*	*3.00*	*3.00*	*3.00*	*3.00*	*3.00*
90 %		*3.00*	*3.00*	*3.00*	*3.00*	*3.00*	*3.00*	*3.00*	*3.00*
None	D6 Ditch	*1.57*	*1.56*	*1.56*	*1.56*	*1.56*	*1.56*	*1.56*	*1.56*
50 %		*1.56*	*1.56*	*1.56*	*1.56*	*1.56*	*1.56*	*1.56*	*1.56*
75 %		*1.56*	*1.56*	*1.56*	*1.56*	*1.56*	*1.56*	*1.56*	*1.56*
90 %		*1.56*	*1.56*	*1.56*	*1.56*	*1.56*	*1.56*	*1.56*	*1.56*
None	D6 Ditch 2nd	*6.33*	*6.27*	*6.26*	*6.25*	*6.25*	*6.26*	*6.25*	*6.25*
50 %		*6.29*	*6.26*	*6.25*	*6.25*	*6.25*	*6.25*	*6.25*	*6.25*
75 %		*6.27*	*6.25*	*6.25*	*6.25*	*6.25*	*6.25*	*6.25*	*6.25*
90 %		*6.25*	*6.25*	*6.25*	*6.25*	*6.25*	*6.25*	*6.25*	*6.25*
None	R1 Pond	*0.379*	*0.367*	*0.339*	*0.325*	*0.315*	*0.194*	*0.178*	*0.114*
50 %		*0.325*	*0.319*	*0.305*	*0.297*	*0.293*	*0.157*	*0.149*	*0.089*
75 %		*0.297*	*0.294*	*0.287*	*0.284*	*0.282*	*0.139*	*0.135*	*0.076*
90 %		*0.281*	*0.280*	*0.277*	*0.276*	*0.275*	*0.127*	*0.126*	*0.069*
None	R1 Stream	*0.279*	*0.276*	*0.275*	*0.274*	*0.274*	*0.127*	*0.126*	*0.067*
50 %		*0.276*	*0.275*	*0.274*	*0.274*	*0.274*	*0.126*	*0.126*	*0.067*
75 %		*0.275*	*0.274*	*0.274*	*0.273*	*0.273*	*0.126*	*0.126*	*0.067*
90 %		*0.274*	*0.273*	*0.273*	*0.273*	*0.273*	*0.125*	*0.125*	*0.067*
None	R2 Stream	*0.690*	*0.687*	*0.686*	*0.686*	*0.686*	*0.260*	*0.260*	*0.134*
50 %		*0.688*	*0.686*	*0.686*	*0.686*	*0.686*	*0.260*	*0.260*	*0.134*
75 %		*0.686*	*0.686*	*0.686*	*0.686*	*0.686*	*0.260*	*0.260*	*0.134*
90 %		*0.686*	*0.686*	*0.685*	*0.685*	*0.685*	*0.260*	*0.260*	*0.134*
None	R3 Stream	*1.83*	*1.81*	*1.80*	*1.80*	*1.79*	*0.702*	*0.700*	*0.365*

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		*1.81*	*1.80*	*1.79*	*1.79*	*1.79*	*0.698*	*0.697*	*0.363*
75 %		*1.80*	*1.79*	*1.79*	*1.79*	*1.79*	*0.696*	*0.696*	*0.361*
90 %		*1.79*	*1.79*	*1.79*	*1.79*	*1.79*	*0.695*	*0.695*	*0.361*

* Maximum values coming from multiple applications are marked in italics

Potatoes 1X - Early – 100 g a.s./ha (DGR IV / PMT VII)

Table 9.2.5- 108: FOCUS Step 4 PECsed results for fluopicolide, GAP group name potatoes 1X, assessment name Early (DGR IV / PMT VII)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.206	0.071	0.039	0.027	0.021	0.039	0.027	0.021
50 %		0.106	0.037	0.020	0.014	0.011	0.020	0.014	0.011
75 %		0.055	0.019	0.010	0.007	0.006	0.010	0.007	0.006
90 %		0.023	0.008	0.004	0.003	0.002	0.004	0.003	0.002
None	D4 Pond	4.17	4.17	4.16	4.15	4.15	4.16	4.15	4.15
50 %		4.15	4.15	4.14	4.14	4.14	4.14	4.14	4.14
75 %		4.14	4.14	4.14	4.14	4.13	4.14	4.14	4.13
90 %		4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
None	D4 Stream	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
50 %		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
75 %		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
90 %		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
None	D6 Ditch	0.768	0.766	0.765	0.765	0.765	0.765	0.765	0.765
50 %		0.766	0.765	0.765	0.765	0.765	0.765	0.765	0.765
75 %		0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
90 %		0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765
None	D6 Ditch 2nd	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
50 %		1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
75 %		1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
90 %		1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
None	R1 Pond	0.524	0.517	0.500	0.491	0.485	0.241	0.232	0.134
50 %		0.490	0.486	0.478	0.473	0.471	0.218	0.213	0.118
75 %		0.473	0.471	0.467	0.465	0.463	0.206	0.204	0.110

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
90 %		0.463	0.462	0.460	0.459	0.459	0.199	0.198	0.105
None	R1 Stream	0.764	0.758	0.756	0.756	0.755	0.300	0.299	0.156
50 %		0.759	0.756	0.755	0.755	0.755	0.299	0.299	0.155
75 %		0.757	0.755	0.755	0.755	0.754	0.298	0.298	0.155
90 %		0.755	0.755	0.754	0.754	0.754	0.298	0.298	0.155
None	R2 Stream	0.291	0.289	0.289	0.289	0.289	0.113	0.113	0.059
50 %		0.290	0.289	0.289	0.289	0.289	0.113	0.113	0.058
75 %		0.289	0.289	0.289	0.289	0.289	0.113	0.113	0.058
90 %		0.289	0.289	0.289	0.289	0.289	0.113	0.113	0.058
None	R3 Stream	0.276	0.268	0.265	0.264	0.264	0.124	0.123	0.066
50 %		0.269	0.265	0.264	0.263	0.263	0.123	0.122	0.065
75 %		0.266	0.264	0.263	0.263	0.262	0.122	0.122	0.065
90 %		0.263	0.263	0.262	0.262	0.262	0.121	0.121	0.065

Potatoes 1X - Late – 100 g a.s./ha (DGR IV / PMT VIII)

Table 9.2.5- 109: FOCUS Step 4 PECsed results for fluopicolide, GAP group name potatoes 1X, assessment name Late (DGR IV / PMT VIII)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.213	0.073	0.040	0.028	0.021	0.040	0.028	0.021
50 %		0.110	0.038	0.021	0.014	0.011	0.021	0.014	0.011
75 %		0.056	0.019	0.011	0.007	0.006	0.011	0.007	0.006
90 %		0.023	0.008	0.004	0.003	0.002	0.004	0.003	0.002
None	D4 Pond	3.84	3.83	3.82	3.81	3.81	3.82	3.81	3.81
50 %		3.81	3.81	3.80	3.80	3.80	3.80	3.80	3.80
75 %		3.80	3.80	3.79	3.79	3.79	3.79	3.79	3.79
90 %		3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.79
None	D4 Stream	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
50 %		1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
75 %		1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
90 %		1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
None	D6 Ditch	0.744	0.740	0.739	0.738	0.738	0.739	0.738	0.738
50 %		0.741	0.738	0.738	0.738	0.738	0.738	0.738	0.738

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
75 %		0.739	0.738	0.738	0.738	0.738	0.738	0.738	0.738
90 %		0.738	0.738	0.737	0.737	0.737	0.737	0.737	0.737
None	D6 Ditch 2nd	2.59	2.57	2.57	2.56	2.56	2.57	2.56	2.56
50 %		2.58	2.57	2.56	2.56	2.56	2.56	2.56	2.56
75 %		2.57	2.56	2.56	2.56	2.56	2.56	2.56	2.56
90 %		2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
None	R1 Pond	0.187	0.179	0.162	0.153	0.147	0.099	0.090	0.060
50 %		0.152	0.148	0.140	0.135	0.132	0.076	0.071	0.044
75 %		0.135	0.133	0.129	0.126	0.125	0.064	0.062	0.036
90 %		0.124	0.124	0.122	0.121	0.120	0.057	0.056	0.031
None	R1 Stream	0.118	0.116	0.116	0.115	0.115	0.053	0.053	0.028
50 %		0.116	0.116	0.115	0.115	0.115	0.053	0.053	0.028
75 %		0.116	0.115	0.115	0.115	0.115	0.053	0.053	0.028
90 %		0.115	0.115	0.115	0.115	0.115	0.053	0.053	0.028
None	R2 Stream	0.299	0.298	0.298	0.297	0.297	0.116	0.116	0.060
50 %		0.298	0.298	0.297	0.297	0.297	0.116	0.116	0.060
75 %		0.298	0.297	0.297	0.297	0.297	0.116	0.116	0.060
90 %		0.297	0.297	0.297	0.297	0.297	0.116	0.116	0.060
None	R3 Stream	0.917	0.907	0.904	0.902	0.902	0.348	0.347	0.180
50 %		0.908	0.903	0.902	0.901	0.901	0.346	0.346	0.179
75 %		0.904	0.902	0.901	0.900	0.900	0.345	0.345	0.179
90 %		0.902	0.901	0.900	0.900	0.900	0.345	0.344	0.178

Metabolite M-03 (AE 0608000)

Potatoes 4X - Early – 4 × 100 g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 110: FOCUS Step 4 PECsed results for M-03 (AE 0608000), GAP group name potatoes 4X, assessment name Early (DGR I / PMT I)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*0.084*	*0.084*	*0.084*	*0.084*	*0.084*	*0.084*	*0.084*	*0.084*
50 %		*0.084*	*0.084*	*0.084*	*0.084*	*0.084*	*0.084*	*0.084*	*0.084*
75 %		*0.084*	*0.084*	*0.084*	*0.084*	*0.084*	*0.084*	*0.084*	*0.084*
90 %		*0.084*	*0.084*	*0.084*	*0.084*	*0.084*	*0.084*	*0.084*	*0.084*
None	D4 Pond	*0.275*	*0.275*	*0.275*	*0.275*	*0.275*	*0.275*	*0.275*	*0.275*
50 %		*0.275*	*0.275*	*0.275*	*0.275*	*0.275*	*0.275*	*0.275*	*0.275*
75 %		*0.275*	*0.275*	*0.275*	*0.275*	*0.275*	*0.275*	*0.275*	*0.275*
90 %		*0.275*	*0.275*	*0.275*	*0.275*	*0.275*	*0.275*	*0.275*	*0.275*
None	D4 Stream	*0.513*	*0.513*	*0.513*	*0.513*	*0.513*	*0.513*	*0.513*	*0.513*
50 %		*0.513*	*0.513*	*0.513*	*0.513*	*0.513*	*0.513*	*0.513*	*0.513*
75 %		*0.513*	*0.513*	*0.513*	*0.513*	*0.513*	*0.513*	*0.513*	*0.513*
90 %		*0.513*	*0.513*	*0.513*	*0.513*	*0.513*	*0.513*	*0.513*	*0.513*
None	D6 Ditch	*0.308*	*0.308*	*0.308*	*0.308*	*0.308*	*0.308*	*0.308*	*0.308*
50 %		*0.308*	*0.308*	*0.308*	*0.308*	*0.308*	*0.308*	*0.308*	*0.308*
75 %		*0.308*	*0.308*	*0.308*	*0.308*	*0.308*	*0.308*	*0.308*	*0.308*
90 %		*0.308*	*0.308*	*0.308*	*0.308*	*0.308*	*0.308*	*0.308*	*0.308*
None	D6 Ditch 2nd	*0.528*	*0.528*	*0.528*	*0.528*	*0.528*	*0.528*	*0.528*	*0.528*
50 %		*0.528*	*0.528*	*0.528*	*0.528*	*0.528*	*0.528*	*0.528*	*0.528*
75 %		*0.528*	*0.528*	*0.528*	*0.528*	*0.528*	*0.528*	*0.528*	*0.528*
90 %		*0.528*	*0.528*	*0.528*	*0.528*	*0.528*	*0.528*	*0.528*	*0.528*
None	R1 Pond	*0.002*	*0.002*	*0.002*	*0.002*	*0.002*	*<0.001*	*<0.001*	*<0.001*
50 %		*0.002*	*0.002*	*0.002*	*0.002*	*0.002*	*<0.001*	*<0.001*	*<0.001*
75 %		*0.002*	*0.002*	*0.002*	*0.002*	*0.002*	*<0.001*	*<0.001*	*<0.001*
90 %		*0.002*	*0.002*	*0.002*	*0.002*	*0.002*	*<0.001*	*<0.001*	*<0.001*
None	R1 Stream	*0.022*	*0.022*	*0.022*	*0.022*	*0.022*	*0.010*	*0.010*	*0.005*
50 %		*0.022*	*0.022*	*0.022*	*0.022*	*0.022*	*0.010*	*0.010*	*0.005*
75 %		*0.022*	*0.022*	*0.022*	*0.022*	*0.022*	*0.010*	*0.010*	*0.005*
90 %		*0.022*	*0.022*	*0.022*	*0.022*	*0.022*	*0.010*	*0.010*	*0.005*
None	R2 Stream	*0.024*	*0.024*	*0.024*	*0.024*	*0.024*	*0.011*	*0.011*	*0.006*
50 %		*0.024*	*0.024*	*0.024*	*0.024*	*0.024*	*0.011*	*0.011*	*0.006*
75 %		*0.024*	*0.024*	*0.024*	*0.024*	*0.024*	*0.011*	*0.011*	*0.006*
90 %		*0.024*	*0.024*	*0.024*	*0.024*	*0.024*	*0.011*	*0.011*	*0.006*

PECsed (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	R3 Stream	*0.024*	*0.024*	*0.024*	*0.024*	*0.024*	*0.011*	*0.011*	*0.006*
50 %		*0.024*	*0.024*	*0.024*	*0.024*	*0.024*	*0.011*	*0.011*	*0.006*
75 %		*0.024*	*0.024*	*0.024*	*0.024*	*0.024*	*0.011*	*0.011*	*0.006*
90 %		*0.024*	*0.024*	*0.024*	*0.024*	*0.024*	*0.011*	*0.011*	*0.006*

* Maximum values coming from multiple applications are marked in italics

Potatoes 4X - Late – 4 × 100 g a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 111: FOCUS Step 4 PECsed results for M-03 (AE 0608000), GAP group name potatoes 4X, assessment name Late (DGR I / PMT II)

PECsed (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*0.043*	*0.043*	*0.043*	*0.043*	*0.043*	*0.043*	*0.043*	*0.043*
50 %		*0.043*	*0.043*	*0.043*	*0.043*	*0.043*	*0.043*	*0.043*	*0.043*
75 %		*0.043*	*0.043*	*0.043*	*0.043*	*0.043*	*0.043*	*0.043*	*0.043*
90 %		*0.043*	*0.043*	*0.043*	*0.043*	*0.043*	*0.043*	*0.043*	*0.043*
None	D4 Pond	*0.202*	*0.202*	*0.202*	*0.202*	*0.202*	*0.202*	*0.202*	*0.202*
50 %		*0.202*	*0.202*	*0.202*	*0.202*	*0.202*	*0.202*	*0.202*	*0.202*
75 %		*0.202*	*0.202*	*0.202*	*0.202*	*0.202*	*0.202*	*0.202*	*0.202*
90 %		*0.202*	*0.202*	*0.202*	*0.202*	*0.202*	*0.202*	*0.202*	*0.202*
None	D4 Stream	*0.382*	*0.382*	*0.382*	*0.382*	*0.382*	*0.382*	*0.382*	*0.382*
50 %		*0.382*	*0.382*	*0.382*	*0.382*	*0.382*	*0.382*	*0.382*	*0.382*
75 %		*0.382*	*0.382*	*0.382*	*0.382*	*0.382*	*0.382*	*0.382*	*0.382*
90 %		*0.382*	*0.382*	*0.382*	*0.382*	*0.382*	*0.382*	*0.382*	*0.382*
None	D6 Ditch	*0.374*	*0.374*	*0.374*	*0.374*	*0.374*	*0.374*	*0.374*	*0.374*
50 %		*0.374*	*0.374*	*0.374*	*0.374*	*0.374*	*0.374*	*0.374*	*0.374*
75 %		*0.374*	*0.374*	*0.374*	*0.374*	*0.374*	*0.374*	*0.374*	*0.374*
90 %		*0.374*	*0.374*	*0.374*	*0.374*	*0.374*	*0.374*	*0.374*	*0.374*
None	D6 Ditch 2nd	*0.598*	*0.598*	*0.598*	*0.598*	*0.598*	*0.598*	*0.598*	*0.598*
50 %		*0.598*	*0.598*	*0.598*	*0.598*	*0.598*	*0.598*	*0.598*	*0.598*
75 %		*0.598*	*0.598*	*0.598*	*0.598*	*0.598*	*0.598*	*0.598*	*0.598*
90 %		*0.598*	*0.598*	*0.598*	*0.598*	*0.598*	*0.598*	*0.598*	*0.598*
None	R1 Pond	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*<0.001*	*<0.001*	*<0.001*
50 %		*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*<0.001*	*<0.001*	*<0.001*

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
75 %		0.001	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	R1 Stream	0.012	0.012	0.012	0.012	0.012	0.006	0.006	0.003
50 %		0.012	0.012	0.012	0.012	0.012	0.006	0.006	0.003
75 %		0.012	0.012	0.012	0.012	0.012	0.006	0.006	0.003
90 %		0.012	0.012	0.012	0.012	0.012	0.006	0.006	0.003
None	R2 Stream	0.027	0.027	0.027	0.027	0.027	0.012	0.012	0.006
50 %		0.027	0.027	0.027	0.027	0.027	0.012	0.012	0.006
75 %		0.027	0.027	0.027	0.027	0.027	0.012	0.012	0.006
90 %		0.027	0.027	0.027	0.027	0.027	0.012	0.012	0.006
None	R3 Stream	0.036	0.036	0.036	0.036	0.036	0.016	0.016	0.008
50 %		0.036	0.036	0.036	0.036	0.036	0.016	0.016	0.008
75 %		0.036	0.036	0.036	0.036	0.036	0.016	0.016	0.008
90 %		0.036	0.036	0.036	0.036	0.036	0.016	0.016	0.008

* Maximum values coming from multiple applications are marked in italics

Potatoes 3X - Early – 3 × 100 g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 112: FOCUS Step 4 PECsed results for M-03 (AE 0608000), GAP group name potatoes 3X, assessment name Early (DGR II / PMT III)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058
50 %		0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058
75 %		0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058
90 %		0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058
None	D4 Pond	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205
50 %		0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205
75 %		0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205
90 %		0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205
None	D4 Stream	0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379
50 %		0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379
75 %		0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379
90 %		0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379

PEC$_{sed}$ (µg/kg)	**Scenario**	**Step 4 M-03 (AE 0608000)**							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D6 Ditch	*0.233*	*0.233*	*0.233*	*0.233*	*0.233*	*0.233*	*0.233*	*0.233*
50 %		*0.233*	*0.233*	*0.233*	*0.233*	*0.233*	*0.233*	*0.233*	*0.233*
75 %		*0.233*	*0.233*	*0.233*	*0.233*	*0.233*	*0.233*	*0.233*	*0.233*
90 %		*0.233*	*0.233*	*0.233*	*0.233*	*0.233*	*0.233*	*0.233*	*0.233*
None	D6 Ditch 2nd	*0.394*	*0.394*	*0.394*	*0.394*	*0.394*	*0.394*	*0.394*	*0.394*
50 %		*0.394*	*0.394*	*0.394*	*0.394*	*0.394*	*0.394*	*0.394*	*0.394*
75 %		*0.394*	*0.394*	*0.394*	*0.394*	*0.394*	*0.394*	*0.394*	*0.394*
90 %		*0.394*	*0.394*	*0.394*	*0.394*	*0.394*	*0.394*	*0.394*	*0.394*
None	R1 Pond	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*<0.001*	*<0.001*	*<0.001*
50 %		*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*<0.001*	*<0.001*	*<0.001*
75 %		*0.001*	*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	R1 Stream	*0.016*	*0.016*	*0.016*	*0.016*	*0.016*	*0.007*	*0.007*	*0.004*
50 %		*0.016*	*0.016*	*0.016*	*0.016*	*0.016*	*0.007*	*0.007*	*0.004*
75 %		*0.016*	*0.016*	*0.016*	*0.016*	*0.016*	*0.007*	*0.007*	*0.004*
90 %		*0.016*	*0.016*	*0.016*	*0.016*	*0.016*	*0.007*	*0.007*	*0.004*
None	R2 Stream	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.009*	*0.009*	*0.005*
50 %		*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.009*	*0.009*	*0.005*
75 %		*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.009*	*0.009*	*0.005*
90 %		*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.009*	*0.009*	*0.005*
None	R3 Stream	*0.017*	*0.017*	*0.017*	*0.017*	*0.017*	*0.008*	*0.008*	*0.004*
50 %		*0.017*	*0.017*	*0.017*	*0.017*	*0.017*	*0.008*	*0.008*	*0.004*
75 %		*0.017*	*0.017*	*0.017*	*0.017*	*0.017*	*0.008*	*0.008*	*0.004*
90 %		*0.017*	*0.017*	*0.017*	*0.017*	*0.017*	*0.008*	*0.008*	*0.004*

* Maximum values coming from multiple applications are marked in italics

Potatoes 3X - Late – 3 × 100 g a.s./ha, 7d int. (DGR II / PMT IV)

Table 9.2.5- 113: FOCUS Step 4 PECsed results for M-03 (AE 0608000), GAP group name potatoes 3X, assessment name Late (DGR II / PMT IV)

PEC_{sed} (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*0.030*	*0.030*	*0.030*	*0.030*	*0.030*	*0.030*	*0.030*	*0.030*
50 %		*0.030*	*0.030*	*0.030*	*0.030*	*0.030*	*0.030*	*0.030*	*0.030*
75 %		*0.030*	*0.030*	*0.030*	*0.030*	*0.030*	*0.030*	*0.030*	*0.030*
90 %		*0.030*	*0.030*	*0.030*	*0.030*	*0.030*	*0.030*	*0.030*	*0.030*
None	D4 Pond	*0.147*	*0.147*	*0.147*	*0.147*	*0.147*	*0.147*	*0.147*	*0.147*
50 %		*0.147*	*0.147*	*0.147*	*0.147*	*0.147*	*0.147*	*0.147*	*0.147*
75 %		*0.147*	*0.147*	*0.147*	*0.147*	*0.147*	*0.147*	*0.147*	*0.147*
90 %		*0.147*	*0.147*	*0.147*	*0.147*	*0.147*	*0.147*	*0.147*	*0.147*
None	D4 Stream	*0.283*	*0.283*	*0.283*	*0.283*	*0.283*	*0.283*	*0.283*	*0.283*
50 %		*0.283*	*0.283*	*0.283*	*0.283*	*0.283*	*0.283*	*0.283*	*0.283*
75 %		*0.283*	*0.283*	*0.283*	*0.283*	*0.283*	*0.283*	*0.283*	*0.283*
90 %		*0.283*	*0.283*	*0.283*	*0.283*	*0.283*	*0.283*	*0.283*	*0.283*
None	D6 Ditch	*0.258*	*0.258*	*0.258*	*0.258*	*0.258*	*0.258*	*0.258*	*0.258*
50 %		*0.258*	*0.258*	*0.258*	*0.258*	*0.258*	*0.258*	*0.258*	*0.258*
75 %		*0.258*	*0.258*	*0.258*	*0.258*	*0.258*	*0.258*	*0.258*	*0.258*
90 %		*0.258*	*0.258*	*0.258*	*0.258*	*0.258*	*0.258*	*0.258*	*0.258*
None	D6 Ditch 2nd	*0.436*	*0.436*	*0.436*	*0.436*	*0.436*	*0.436*	*0.436*	*0.436*
50 %		*0.436*	*0.436*	*0.436*	*0.436*	*0.436*	*0.436*	*0.436*	*0.436*
75 %		*0.436*	*0.436*	*0.436*	*0.436*	*0.436*	*0.436*	*0.436*	*0.436*
90 %		*0.436*	*0.436*	*0.436*	*0.436*	*0.436*	*0.436*	*0.436*	*0.436*
None	R1 Pond	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*
50 %		*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*
75 %		*<0.001*	*<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	R1 Stream	*0.008*	*0.008*	*0.008*	*0.008*	*0.008*	*0.004*	*0.004*	*0.002*
50 %		*0.008*	*0.008*	*0.008*	*0.008*	*0.008*	*0.004*	*0.004*	*0.002*
75 %		*0.008*	*0.008*	*0.008*	*0.008*	*0.008*	*0.004*	*0.004*	*0.002*
90 %		*0.008*	*0.008*	*0.008*	*0.008*	*0.008*	*0.004*	*0.004*	*0.002*
None	R2 Stream	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.008*	*0.008*	*0.004*
50 %		*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.008*	*0.008*	*0.004*
75 %		*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.008*	*0.008*	*0.004*
90 %		*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.008*	*0.008*	*0.004*
None	R3 Stream	*0.031*	*0.031*	*0.031*	*0.031*	*0.031*	*0.014*	*0.014*	*0.007*

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		*0.031*	*0.031*	*0.031*	*0.031*	*0.031*	*0.014*	*0.014*	*0.007*
75 %		*0.031*	*0.031*	*0.031*	*0.031*	*0.031*	*0.014*	*0.014*	*0.007*
90 %		*0.031*	*0.031*	*0.031*	*0.031*	*0.031*	*0.014*	*0.014*	*0.007*

* Maximum values coming from multiple applications are marked in italics

<u>Potatoes 2X - Early – 2 × 100 g a.s./ha, 7d int. (DGR III / PMT V)</u>

Table 9.2.5- 114: FOCUS Step 4 PECsed results for M-03 (AE 0608000), GAP group name potatoes 2X, assessment name Early (DGR III / PMT V)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*0.034*	*0.034*	*0.034*	*0.034*	*0.034*	*0.034*	*0.034*	*0.034*
50 %		*0.034*	*0.034*	*0.034*	*0.034*	*0.034*	*0.034*	*0.034*	*0.034*
75 %		*0.034*	*0.034*	*0.034*	*0.034*	*0.034*	*0.034*	*0.034*	*0.034*
90 %		*0.034*	*0.034*	*0.034*	*0.034*	*0.034*	*0.034*	*0.034*	*0.034*
None	D4 Pond	*0.135*	*0.135*	*0.135*	*0.135*	*0.135*	*0.135*	*0.135*	*0.135*
50 %		*0.135*	*0.135*	*0.135*	*0.135*	*0.135*	*0.135*	*0.135*	*0.135*
75 %		*0.135*	*0.135*	*0.135*	*0.135*	*0.135*	*0.135*	*0.135*	*0.135*
90 %		*0.135*	*0.135*	*0.135*	*0.135*	*0.135*	*0.135*	*0.135*	*0.135*
None	D4 Stream	*0.249*	*0.249*	*0.249*	*0.249*	*0.249*	*0.249*	*0.249*	*0.249*
50 %		*0.249*	*0.249*	*0.249*	*0.249*	*0.249*	*0.249*	*0.249*	*0.249*
75 %		*0.249*	*0.249*	*0.249*	*0.249*	*0.249*	*0.249*	*0.249*	*0.249*
90 %		*0.249*	*0.249*	*0.249*	*0.249*	*0.249*	*0.249*	*0.249*	*0.249*
None	D6 Ditch	*0.159*	*0.159*	*0.159*	*0.159*	*0.159*	*0.159*	*0.159*	*0.159*
50 %		*0.159*	*0.159*	*0.159*	*0.159*	*0.159*	*0.159*	*0.159*	*0.159*
75 %		*0.159*	*0.159*	*0.159*	*0.159*	*0.159*	*0.159*	*0.159*	*0.159*
90 %		*0.159*	*0.159*	*0.159*	*0.159*	*0.159*	*0.159*	*0.159*	*0.159*
None	D6 Ditch 2nd	*0.261*	*0.261*	*0.261*	*0.261*	*0.261*	*0.261*	*0.261*	*0.261*
50 %		*0.261*	*0.261*	*0.261*	*0.261*	*0.261*	*0.261*	*0.261*	*0.261*
75 %		*0.261*	*0.261*	*0.261*	*0.261*	*0.261*	*0.261*	*0.261*	*0.261*
90 %		*0.261*	*0.261*	*0.261*	*0.261*	*0.261*	*0.261*	*0.261*	*0.261*
None	R1 Pond	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*<0.001*	*<0.001*	*<0.001*
50 %		*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*<0.001*	*<0.001*	*<0.001*
75 %		*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*<0.001*	*<0.001*	*<0.001*

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
90 %		*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*<0.001*	*<0.001*	*<0.001*
None	R1 Stream	*0.012*	*0.012*	*0.012*	*0.012*	*0.012*	*0.005*	*0.005*	*0.003*
50 %		*0.012*	*0.012*	*0.012*	*0.012*	*0.012*	*0.005*	*0.005*	*0.003*
75 %		*0.012*	*0.012*	*0.012*	*0.012*	*0.012*	*0.005*	*0.005*	*0.003*
90 %		*0.012*	*0.012*	*0.012*	*0.012*	*0.012*	*0.005*	*0.005*	*0.003*
None	R2 Stream	*0.013*	*0.013*	*0.013*	*0.013*	*0.013*	*0.006*	*0.006*	*0.003*
50 %		*0.013*	*0.013*	*0.013*	*0.013*	*0.013*	*0.006*	*0.006*	*0.003*
75 %		*0.013*	*0.013*	*0.013*	*0.013*	*0.013*	*0.006*	*0.006*	*0.003*
90 %		*0.013*	*0.013*	*0.013*	*0.013*	*0.013*	*0.006*	*0.006*	*0.003*
None	R3 Stream	*0.010*	*0.010*	*0.010*	*0.010*	*0.010*	*0.005*	*0.005*	*0.002*
50 %		*0.010*	*0.010*	*0.010*	*0.010*	*0.010*	*0.005*	*0.005*	*0.002*
75 %		*0.010*	*0.010*	*0.010*	*0.010*	*0.010*	*0.005*	*0.005*	*0.002*
90 %		*0.010*	*0.010*	*0.010*	*0.010*	*0.010*	*0.005*	*0.005*	*0.002*

* Maximum values coming from multiple applications are marked in italics

Potatoes 2X - Late – 2 × 100 g a.s./ha, 7d int. (DGR III / PMT VI)

Table 9.2.5- 115: FOCUS Step 4 PECsed results for M-03 (AE 0608000), GAP group name potatoes 2X, assessment name Late (DGR III / PMT VI)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*
50 %		*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*
75 %		*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*
90 %		*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*
None	D4 Pond	*0.101*	*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	D4 Stream	*0.192*	*0.192*	*0.192*	*0.192*	*0.192*	*0.192*	*0.192*	*0.192*
50 %		*0.192*	*0.192*	*0.192*	*0.192*	*0.192*	*0.192*	*0.192*	*0.192*
75 %		*0.192*	*0.192*	*0.192*	*0.192*	*0.192*	*0.192*	*0.192*	*0.192*
90 %		*0.192*	*0.192*	*0.192*	*0.192*	*0.192*	*0.192*	*0.192*	*0.192*
None	D6 Ditch	*0.157*	*0.157*	*0.157*	*0.157*	*0.157*	*0.157*	*0.157*	*0.157*

PEC$_{sed}$ (µg/kg)	**Scenario**	**Step 4 M-03 (AE 0608000)**							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %	D6 Ditch 2nd	*0.157*	*0.157*	*0.157*	*0.157*	*0.157*	*0.157*	*0.157*	*0.157*
75 %		*0.157*	*0.157*	*0.157*	*0.157*	*0.157*	*0.157*	*0.157*	*0.157*
90 %		*0.157*	*0.157*	*0.157*	*0.157*	*0.157*	*0.157*	*0.157*	*0.157*
None		*0.292*	*0.292*	*0.292*	*0.292*	*0.292*	*0.292*	*0.292*	*0.292*
50 %		*0.292*	*0.292*	*0.292*	*0.292*	*0.292*	*0.292*	*0.292*	*0.292*
75 %		*0.292*	*0.292*	*0.292*	*0.292*	*0.292*	*0.292*	*0.292*	*0.292*
90 %		*0.292*	*0.292*	*0.292*	*0.292*	*0.292*	*0.292*	*0.292*	*0.292*
None	R1 Pond	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*
50 %		*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*
75 %		*<0.001*	*<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	R1 Stream	*0.006*	*0.006*	*0.006*	*0.006*	*0.006*	*0.003*	*0.003*	*0.001*
50 %		*0.006*	*0.006*	*0.006*	*0.006*	*0.006*	*0.003*	*0.003*	*0.001*
75 %		*0.006*	*0.006*	*0.006*	*0.006*	*0.006*	*0.003*	*0.003*	*0.001*
90 %		*0.006*	*0.006*	*0.006*	*0.006*	*0.006*	*0.003*	*0.003*	*0.001*
None	R2 Stream	*0.013*	*0.013*	*0.013*	*0.013*	*0.013*	*0.006*	*0.006*	*0.003*
50 %		*0.013*	*0.013*	*0.013*	*0.013*	*0.013*	*0.006*	*0.006*	*0.003*
75 %		*0.013*	*0.013*	*0.013*	*0.013*	*0.013*	*0.006*	*0.006*	*0.003*
90 %		*0.013*	*0.013*	*0.013*	*0.013*	*0.013*	*0.006*	*0.006*	*0.003*
None	R3 Stream	*0.023*	*0.023*	*0.023*	*0.023*	*0.023*	*0.010*	*0.010*	*0.005*
50 %		*0.023*	*0.023*	*0.023*	*0.023*	*0.023*	*0.010*	*0.010*	*0.005*
75 %		*0.023*	*0.023*	*0.023*	*0.023*	*0.023*	*0.010*	*0.010*	*0.005*
90 %		*0.023*	*0.023*	*0.023*	*0.023*	*0.023*	*0.010*	*0.010*	*0.005*

* Maximum values coming from multiple applications are marked in italics

Potatoes 1X - Early – 100 g a.s./ha (DGR IV / PMT VII)

Table 9.2.5- 116: FOCUS Step 4 PECsed results for M-03 (AE 0608000), GAP group name potatoes 1X, assessment name Early (DGR IV / PMT VII)

PEC_{sed} (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
50 %		0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
75 %		0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
90 %		0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
None	D4 Pond	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067
50 %		0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067
75 %		0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067
90 %		0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067
None	D4 Stream	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122
50 %		0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122
75 %		0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122
90 %		0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122
None	D6 Ditch	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086
50 %		0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086
75 %		0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086
90 %		0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086
None	D6 Ditch 2nd	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131
50 %		0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131
75 %		0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131
90 %		0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131
None	R1 Pond	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
50 %		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
75 %		<0.001	<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	R1 Stream	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.001
50 %		0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.001
75 %		0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.001
90 %		0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.001
None	R2 Stream	0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.002
50 %		0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.002
75 %		0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.002
90 %		0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.002
None	R3 Stream	0.003	0.003	0.003	0.003	0.003	0.001	0.001	<0.001

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		0.003	0.003	0.003	0.003	0.003	0.001	0.001	<0.001
75 %		0.003	0.003	0.003	0.003	0.003	0.001	0.001	<0.001
90 %		0.003	0.003	0.003	0.003	0.003	0.001	0.001	<0.001

Potatoes 1X - Late – 100 g a.s./ha (DGR IV / PMT VIII)

Table 9.2.5- 117: FOCUS Step 4 PECsed results for M-03 (AE 0608000), GAP group name potatoes 1X, assessment name Late (DGR IV / PMT VIII)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
50 %		0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
75 %		0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
90 %		0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
None	D4 Pond	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
50 %		0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
75 %		0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
90 %		0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
None	D4 Stream	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
50 %		0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
75 %		0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
90 %		0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
None	D6 Ditch	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077
50 %		0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077
75 %		0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077
90 %		0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077
None	D6 Ditch 2nd	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127
50 %		0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127
75 %		0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127
90 %		0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127
None	R1 Pond	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
50 %		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
75 %		<0.001	<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

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	R1 Stream	0.003	0.003	0.003	0.003	0.003	0.001	0.001	<0.001
50 %		0.003	0.003	0.003	0.003	0.003	0.001	0.001	<0.001
75 %		0.003	0.003	0.003	0.003	0.003	0.001	0.001	<0.001
90 %		0.003	0.003	0.003	0.003	0.003	0.001	0.001	<0.001
None	R2 Stream	0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.002
50 %		0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.002
75 %		0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.002
90 %		0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.002
None	R3 Stream	0.012	0.012	0.012	0.012	0.012	0.005	0.005	0.003
50 %		0.012	0.012	0.012	0.012	0.012	0.005	0.005	0.003
75 %		0.012	0.012	0.012	0.012	0.012	0.005	0.005	0.003
90 %		0.012	0.012	0.012	0.012	0.012	0.005	0.005	0.003

III. Conclusion

Predicted environmental concentrations of the fungicide fluopicolide and its metabolites in surface water (PECsw) and sediment (PECsed) were calculated for the use in potatoes in Europe, employing the tiered FOCUS Surface Water (SW) approach (FOCUS 2001, 2015). All relevant entry routes of a compound into surface water (principally a combination of spray drift and runoff/erosion or drain flow) were considered.

<u>Assessment and conclusion by applicant:</u>

The risk assessment report was conducted according to FOCUS (2001,2015) and is considered valid to assess predicted environmental concentrations in surface water (PEC$_{SW}$) and sediment (PECsed) for fluopicolide and its metabolites in potatoes.

Data Point:	KCP 9.2.5/10
Report Author:	[redacted]
Report Year:	2020
Report Title:	Fluopicolide (FLC) and metabolites: PECsw,sed FOCUS EUR - Use in leafy vegetables in Europe
Report No:	EnSa-20-0398
Document No:	M-687155-01-1
Guideline(s) followed in study:	not applicable
Deviations from current test guideline:	None
Previous evaluation:	No, not previously submitted
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

Executive Summary

Predicted environmental concentrations of the fungicide fluopicolide and metabolites in surface water (PECsw) and sediment (PECsed) were calculated for the use in Europe, employing the tiered FOCUS Surface Water (SW) approach (FOCUS 2001, 2015). All relevant entry routes of a compound into surface water (principally a combination of spray drift and runoff/erosion or drain flow) were considered in these calculations.

The uses of fluopicolide in lettuce were assessed according to the Good Agricultural Practice (GAP) in Europe.

I. Materials and Methods

Predicted environmental concentrations of the fungicide fluopicolide and its metabolites in surface water (PECsw) and sediment (PECsed) were calculated for the use in Europe, employing the tiered FOCUS Surface Water (SW) approach (FOCUS 2001, 2015). All relevant entry routes of a compound into surface water (principally a combination of spray drift and runoff/erosion or drain flow) were considered in these calculations.

The uses of fluopicolide in relevant crops were assessed according to the Good Agricultural Practice (GAP) in Europe. Intended GAPs for the use of fluopicolide in Europe were analysed and consolidated according to regulatory and modelling requirements. As a result, one or more uses may be covered by a single modelling GAP row (DGR). The translation of the regulatory GAP for modelling purposes is shown in Table 9.2.5-118.

Table 9.2.5-118: GAP translation for modelling purposes

GAP group ID	GAP group name (DGR) and use IDs	Covered crop(s)	Growth stage	Max. apps	Interval (days)	Rate (kg a.s./ha)
DGR I	lettuce	lettuce	BBCH 13 - 49	1	-	1 × 0.1
DGR II	lettuce 2x	lettuce	BBCH 41 - 49	2	7	2 × 0.1

The implementation of the modelling GAP (Table 9.2.5-118) at Steps 1-2 level is shown in Table 9.2.5-119. One or more calculations (modelling tasks, PMT) are necessary to fully cover the use assessed. The number and name of the respective DGR is provided for easier reference.

Table 9.2.5- 119: FOCUS Steps 1-2 specific data for the GAPs assessed

Run IDs (DGR / PMT)	GAP group name (DGR)	Assessment name (PMT)	FOCUS crop (crop group)	Season	Crop cover
DGR I PMT I	lettuce	early	vegetables, leafy (arable crops)	spring (Mar. - May)	min crop cover
DGR I PMT II	lettuce	late	vegetables, leafy (arable crops)	summer (Jun. - Sep.)	full canopy
DGR II PMT III	lettuce 2x	double	vegetables, leafy (arable crops)	summer (Jun. - Sep.)	full canopy

This section provides the implementation of the modelling GAP (Table 9.2.5-118) at Step 3 level. Also here one or more calculations (modelling tasks, PMT) are necessary to fully cover the use assessed. The number and name of the respective DGR is provided for easier reference.

Please note that PMTs at Steps 1-2 and Step 3 do not necessarily fully correspond to each other due to inherent differences in the models.

The application dates for this assessment were set with the help of the tool AppDate (Klein 2018), which proposes dates for specific crop stages (given as BBCH code) based on the crop development as defined in the FOCUS model scenarios for groundwater and surface water.

The summary of all Step 3 PMTs is provided in Table 9.2.5- 120. The detailed information on individual uses is given in the tables that follow.

Table 9.2.5- 120: Overview of FOCUS Step 3 assessments

Run IDs (DGR / PMT)	GAP group name (DGR)	Assessment name (PMT)	FOCUS crop (crop group)
DGR I PMT I	Lettuce	Early	Vegetables, leafy (arable crops)
DGR I PMT II	Lettuce	Late	Vegetables, leafy (arable crops)
DGR II PMT III	Lettuce 2x	Double	Vegetables, leafy (arable crops)

GAP group name lettuce, assessment name early

Table 9.2.5- 121: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Early	D3 Ditch D3 Ditch (2nd) D4 Pond/Stream D6 Ditch R1 Pond/Stream R1 Pond/Stream (2nd) R2 Stream R2 Stream (2nd) R3 Stream R3 Stream (2nd) R4 Stream R4 Stream (2nd)	08-May - 07-Jun 17-Aug - 16-Sep 01-Jun - 01-Jul 30-Aug - 29-Sep 03-May - 02-Jun 12-Aug - 11-Sep 24-Mar - 23-Apr 10-Aug - 09-Sep 20-Mar - 19-Apr 02-Jul - 01-Aug 20-Mar - 19-Apr 04-Jul - 03-Aug

Table 9.2.5- 122: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR 1 / PMT 1 Lettuce Early
FOCUS model crop (crop group)	Vegetables, leafy (arable crops)
Use pattern	0.1 kg a.s./ha
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	30 days for all scenarios (min = 30 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	08-May/07-Jun (128/158)	14-May	R1 Pond/Stream	03-May/02-Jun (123/153)	03-May
D3 Ditch (2nd)	17-Aug/16-Sep (229/259)	18-Aug	R1 Pond/Stream (2nd)	12-Aug/11-Sep (224/254)	20-Aug
D4 Pond/Stream	01-Jun/01-Jul (152/182)	01-Jun	R2 Stream	24-Mar/23-Apr (83/113)	22-Apr
D6 Ditch	30-Aug/29-Sep (242/272)	31-Aug	R2 Stream (2nd)	10-Aug/09-Sep (222/252)	10-Aug
			R3 Stream	20-Mar/19-Apr (79/109)	28-Mar
			R3 Stream (2nd)	02-Jul/01-Aug (183/213)	06-Jul
			R4 Stream	20-Mar/19-Apr (79/109)	03-Apr
			R4 Stream (2nd)	04-Jul/03-Aug (185/215)	12-Jul

GAP group name lettuce, assessment name late

Table 9.2.5- 123: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Late	D3 Ditch D3 Ditch (2nd) D4 Pond/Stream D6 Ditch R1 Pond/Stream R1 Pond/Stream (2nd) R2 Stream R2 Stream (2nd) R3 Stream R3 Stream (2nd) R4 Stream R4 Stream (2nd)	09-Jun - 16-Jul 09-Sep - 16-Oct 13-Aug - 19-Sep 18-Oct - 24-Nov 04-Jun - 11-Jul 04-Sep - 11-Oct 20-May - 26-Jun 01-Oct - 07-Nov 22-Apr - 29-May 06-Aug - 12-Sep 22-Apr - 29-May 06-Aug - 12-Sep

Table 9.2.5- 124: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR 1/ PMT 11 Lettuce Late
FOCUS model crop (crop group)	Vegetables, leafy (arable crops)
Use pattern	0.1 kg a.s./ha
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	37 days for all scenarios (min = 30 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	09-Jun/16-Jul (160/197)	14-Jun	R1 Pond/Stream	04-Jun/11-Jul (155/192)	29-Jun
D3 Ditch (2nd)	09-Sep/16-Oct (252/289)	17-Sep	R1 Pond/Stream (2nd)	04-Sep/11-Oct (247/284)	19-Sep
D4 Pond/Stream	13-Aug/19-Sep (225/262)	27-Aug	R2 Stream	20-May/26-Jun (140/177)	20-May
D6 Ditch	18-Oct/24-Nov (291/328)	18-Oct	R2 Stream (2nd)	01-Oct/07-Nov (274/311)	01-Oct
			R3 Stream	22-Apr/29-May (112/149)	22-Apr
			R3 Stream (2nd)	06-Aug/12-Sep (218/255)	28-Aug
			R4 Stream	22-Apr/29-May (112/149)	23-Apr
			R4 Stream (2nd)	06-Aug/12-Sep (218/255)	12-Aug

GAP group name lettuce 2x, assessment name double

Table 9.2.5- 125: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Lettuce 2x	D3 Ditch D3 Ditch (2nd) D4 Pond/Stream D6 Ditch R1 Pond/Stream R1 Pond/Stream (2nd) R2 Stream R2 Stream (2nd) R3 Stream R3 Stream (2nd) R4 Stream R4 Stream (2nd)	09-Jun - 16-Jul 09-Sep - 16-Oct 13-Aug - 19-Sep 18-Oct - 24-Nov 04-Jun - 11-Jul 04-Sep - 11-Oct 20-May - 26-Jun 01-Oct - 07-Nov 22-Apr - 29-May 06-Aug - 12-Sep 22-Apr - 29-May 06-Aug - 12-Sep

Table 9.2.5- 126: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR II / PMT III Lettuce 2x Double
FOCUS model crop (crop group)	Vegetables, leafy (arable crops)
Use pattern	2×0.1 kg a.s./ha, 7d int.
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	37 days for all scenarios (min = 37 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	09-Jun/16-Jul (160/197)	14-Jun 25-Jun	R1 Pond/Stream	04-Jun/11-Jul (155/192)	29-Jun 11-Jul
D3 Ditch (2nd)	09-Sep/16-Oct (252/289)	17-Sep 24-Sep	R1 Pond/Stream (2nd)	04-Sep/11-Oct (247/284)	19-Sep 06-Oct
D4 Pond/Stream	13-Aug/19-Sep (225/262)	27-Aug 10-Sep	R2 Stream	20-May/26-Jun (140/177)	20-May 27-May
D6 Ditch	18-Oct/24-Nov (291/328)	18-Oct 25-Oct	R2 Stream (2nd)	01-Oct/07-Nov (274/311)	01-Oct 11-Oct
			R3 Stream	22-Apr/29-May (112/149)	22-Apr 18-May
			R3 Stream (2nd)	06-Aug/12-Sep (218/255)	07-Aug 19-Aug
			R4	22-Apr/29-May	23-Apr

			Stream R4 Stream (2nd)	(112/149) 06-Aug/12-Sep (218/255)	04-May 12-Aug 19-Aug

Steps 1-2 calculations were performed according to formulas implemented in FOCUS STEPS 1-2 version 3.2.

Step 3 calculations were performed using the FOCUS SWASH 5.3 suite, including
FOCUS PRZM 4.3.1
FOCUS MACRO 5.5.4
FOCUS TOXSWA 5.5.3

Refinement at Step 4 level was performed with the SWAN tool, version 5.0.1.

Standard procedures and settings were used for Steps 1-2 and 3 assessments. At Step 4 the following mitigation settings were used Table 9.2.5- 127 and Table 9.2.5- 128.

Table 9.2.5- 127: Mitigation approaches used

Buffer length	Mitigation type	Drift reduction nozzles
0 m 5 m 10 m 15 m 20 m	Spray drift Spray drift Spray drift & RunOff Spray drift & RunOff Spray drift & RunOff	0 %, 50 %, 75 %, 90 %

Table 9.2.5- 128: Runoff mitigation parameters used for the assessment

Fractional reduction in:	10 m, 15 m	20 m
Runoff: Volume	0.60	0.80
Flux	0.60	0.80
Erosion: Mass	0.85	0.95
Flux	0.85	0.95

Substance related parameters which have been used for fluopicolide and its metabolites M-01 (AE C653711), M-02 (AE C657188) and M-03 (AE 0608000) and whose derivation is described in detail in the core modelling document KCP 9.2.5/04 have been used in the calculations at FOCUS SW Steps 1-2 level are summarised in Table 9.2.5- 129 and at Step 3/4 level in Table 9.2.5- 130.

Table 9.2.5- 129: Substance parameters used at FOCUS Steps 1-2 level

Parameter	Unit	Fluopicolide	M-01 (AE C653711)	M-02 (AE C657188)	M-03 (AE 0608000)
Molar mass	(g/mol)	383.59	190.03	225.56	399.58
Water solubility	(mg/L)	2.8	1830	9721	10
Koc	(mL/g)	267.7	24.1	5.7	106.9
Degradation					
Soil	(days)	182	146	1.6	17.9
Total system	(days)	1000	1000	1000	1.9
Water	(days)	1000	1000	1000	1.9
Sediment	(days)	1000	1000	1000	1000
Max occurrence					
Water / sediment	(%)	100	20.3	8.2	0.001
Soil	(%)	100	48	16.4	10.6

Table 9.2.5- 130: Substance parameters used for fluopicolide and its metabolite M-03 (AE 0608000) at Step 3/4 level

Parameter	Unit	Parent	Metabolite
Substance		Fluopicolide	M-03 (AE 0608000)
SWASH code		FLC	M03
General			
Molar mass	(g/mol)	383.59	399.58
Water solubility (temp.)	(mg/L)	2.8 (20 °C)	10 (20 °C)
Vapour pressure (temp.)	(Pa)	3.03E-07 (20 °C)	0 (20 °C)
Crop processes			
Coefficient for uptake by plant (TSCF)	(-)	0.5	0
Wash-off factor	(1/m)	50	50
Sorption			
K_{OC}	(mL/g)	267.74	106.89
K_{OM}	(mL/g)	155.3	62
Freundlich exponent ($1/n$)	(-)	0.888	0.971
Transformation			
DT50 in soil	(days)	182	17.9
temperature	(°C)	20	20
moisture content (pF)	(log(cm))	2	2
formation fraction in soil	(-)	-	0.53
DT50 in water	(days)	1000	1.9
temperature	(°C)	20	20
formation fraction in water	(-)	-	-
DT50 in sediment	(days)	1000	1000
temperature	(°C)	20	20
formation fraction in sediment	(-)	-	-
DT50 on canopy	(days)	10	10
Exponent for the effect of moisture			
PRZM and TOXSWA (Walker exp.)	(-)	0.7	0.7
MACRO (calibrated value)	(-)	0.49	0.49
Effect of temperature			
TOXSWA (molar activation energy)	(kJ/mol)	65.4	65.4
MACRO (effect of temperature)	(1/K)	0.0948	0.0948
PRZM (Q_{10})	(-)	2.58	2.58

II. Results and Discussion

The PEC values were calculated for fluopicolide and its metabolites M-01 (AE C653711), M-02 (AE C657188) and M-03 (AE 0608000) according to the equations implemented in the "STEPS 1-2 in FOCUS" calculator Table 9.2.5- 131 to Table 9.2.5- 142.

Parent substance fluopicolide

Lettuce - early – 1 × 100g a.s./ha (DGR I / PMT I)

Table 9.2.5- 131: FOCUS Steps 1-2 PECsw and PECsed for fluopicolide, GAP group name lettuce, assessment name early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	25.5	RunOff	25.2	67.5
Step 2					
Northern Europe	Mar. - May(Spring)	4.37 *	RunOff	4.30	11.5 *
Southern Europe	Mar. - May(Spring)	8.00 *	RunOff	7.92	21.2 *

* Single applications are marked.
** TWA interval as required by ecotox

Lettuce - late – 1 × 100g a.s./ha (DGR I / PMT II)

Table 9.2.5- 132: FOCUS Steps 1-2 PECsw and PECsed for fluopicolide, GAP group name lettuce, assessment name late (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	25.5	RunOff	25.2	67.5
Step 2					
Northern Europe	Jun. - Sep.(Summer)	2.19 *	RunOff	2.13	5.69 *
Southern Europe	Jun. - Sep.(Summer)	2.92 *	RunOff	2.85	7.63 *

* Single applications are marked.
** TWA interval as required by ecotox

Lettuce 2x - double – 2 × 100g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 133: FOCUS Steps 1-2 PECsw and PECsed for fluopicolide, GAP group name lettuce 2x, assessment name double (DGR II / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	51.0	RunOff	50.4	135
Step 2					
Northern Europe	Jun. - Sep.(Summer)	4.17	RunOff	4.06	10.9
Southern Europe	Jun. - Sep.(Summer)	5.60	RunOff	5.48	14.7

* Single applications are marked.
** TWA interval as required by ecotox

<u>Metabolite M-01 (AE C653711)</u>

<u>Lettuce - early – 1 × 100g a.s./ha (DGR I / PMT I)</u>

Table 9.2.5- 134: FOCUS Steps 1-2 PECsw and PECsed for M-01 (AE C653711), GAP group name lettuce, assessment name early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	11.0	-	11.0	2.65
Step 2					
Northern Europe	Mar. - May(Spring)	1.70 *	-	1.70	0.409 *
Southern Europe	Mar. - May(Spring)	3.31 *	-	3.30	0.797 *

* Single applications are marked.
** TWA interval as required by ecotox

<u>Lettuce - late – 1 × 100g a.s./ha (DGR I / PMT II)</u>

Table 9.2.5- 135: FOCUS Steps 1-2 PECsw and PECsed for M-01 (AE C653711), GAP group name lettuce, assessment name late (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	11.0	-	11.0	2.65
Step 2					
Northern Europe	Jun. - Sep.(Summer)	0.734 *	-	0.732	0.177 *
Southern Europe	Jun. - Sep.(Summer)	1.06 *	-	1.05	0.254 *

* Single applications are marked.
** TWA interval as required by ecotox

Lettuce 2x - double – 2 × 100g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 136: FOCUS Steps 1-2 PECsw and PECsed for M-01 (AE C653711), GAP group name lettuce 2x, assessment name double (DGR II / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	22.0	-	22.0	5.31
Step 2					
Northern Europe	Jun. - Sep.(Summer)	1.43	-	1.42	0.343
Southern Europe	Jun. - Sep.(Summer)	2.06	-	2.06	0.496

* Single applications are marked.
** TWA interval as required by ecotox

Metabolite M-02 (AE C657188)

Lettuce - early – 1 × 100g a.s./ha (DGR I / PMT I)

Table 9.2.5- 137: FOCUS Steps 1-2 PECsw and PECsed for M-02 (AE C657188), GAP group name lettuce, assessment name early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	4.83	-	4.82	0.275
Step 2					
Northern Europe	Mar. - May(Spring)	0.364 *	-	0.363	0.021 *
Southern Europe	Mar. - May(Spring)	0.685 *	-	0.683	0.039 *

* Single applications are marked.
** TWA interval as required by ecotox

Lettuce - late – 1 × 100g a.s./ha (DGR I / PMT II)

Table 9.2.5- 138: FOCUS Steps 1-2 PECsw and PECsed for M-02 (AE C657188), GAP group name lettuce, assessment name late (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	4.83	-	4.82	0.275
Step 2					
Northern Europe	Jun. - Sep.(Summer)	0.172 *	-	0.172	0.010 *
Southern Europe	Jun. - Sep.(Summer)	0.236 *	-	0.236	0.013 *

* Single applications are marked.
** TWA interval as required by ecotox

Lettuce 2x - double – 2 × 100g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 139: FOCUS Steps 1-2 PECsw and PECsed for M-02 (AE C657188), GAP group name lettuce 2x, assessment name double (DGR II / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	9.66	-	9.64	0.550
Step 2					
Northern Europe	Jun. - Sep.(Summer)	0.299	-	0.298	0.017
Southern Europe	Jun. - Sep.(Summer)	0.410	-	0.409	0.023

* Single applications are marked.
** TWA interval as required by ecotox

Metabolite M-03 (AE 0608000)

Lettuce - early – 1 × 100g a.s./ha (DGR I / PMT I)

Table 9.2.5- 140: FOCUS Steps 1-2 PECsw and PECsed for M-03 (AE 0608000), GAP group name lettuce, assessment name early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	3.22	-	1.17	3.44
Step 2					
Northern Europe	Mar. - May(Spring)	0.414 *	-	0.163	0.443 *
Southern Europe	Mar. - May(Spring)	0.828 *	-	0.325	0.885 *

* Single applications are marked.
** TWA interval as required by ecotox

Lettuce - late – 1 × 100g a.s./ha (DGR I / PMT II)

Table 9.2.5- 141: FOCUS Steps 1-2 PECsw and PECsed for M-03 (AE 0608000), GAP group name lettuce, assessment name late (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	3.22	-	1.17	3.44
Step 2					
Northern Europe	Jun. - Sep.(Summer)	0.166 *	-	0.065	0.177 *
Southern Europe	Jun. - Sep.(Summer)	0.248 *	-	0.098	0.266 *

* Single applications are marked.
** TWA interval as required by ecotox

Lettuce 2x - double – 2 × 100g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 142: FOCUS Steps 1-2 PECsw and PECsed for M-03 (AE 0608000), GAP group name lettuce 2x, assessment name double (DGR II / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	3.22	-	1.17	3.44
Step 2					
Northern Europe	Jun. - Sep.(Summer)	0.292	-	0.115	0.312
Southern Europe	Jun. - Sep.(Summer)	0.438	-	0.172	0.468

* Single applications are marked.
** TWA interval as required by ecotox

Step 3 calculations were conducted for fluopicolide and its metabolite M-03 (AE 0608000) employing the models of the FOCUS SW suite. Reported values represent loadings *via* all relevant entry routes. are shown in Table 9.2.5- 143 to Table 9.2.5- 148.

Parent substance fluopicolide

Lettuce - early – 100 g a.s./ha (DGR I / PMT I)

Table 9.2.5- 143: FOCUS Step 3 PECsw and PECsed for fluopicolide, GAP group name lettuce, assessment name early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.634 *	Spray drift	0.106	0.262 *
D3	Ditch 2nd	0.635 *	Spray drift	0.114	0.276 *
D4	Pond	0.714 *	Drainage	0.713	3.66 *
D4	Stream	0.675 *	Drainage	0.546	1.32 *
D6	Ditch	1.67 *	Drainage	0.815	1.73 *
R1	Pond	0.094 *	RunOff	0.090	0.431 *
R1	Pond 2nd	0.079 *	RunOff	0.075	0.430 *
R1	Stream	1.12 *	RunOff	0.126	0.357 *
R1	Stream 2nd	0.985 *	RunOff	0.112	0.409 *
R2	Stream	0.553 *	Spray drift	0.045	0.258 *
R2	Stream 2nd	0.562 *	Spray drift	0.126	0.536 *
R3	Stream	1.31 *	RunOff	0.188	0.616 *
R3	Stream 2nd	2.00 *	RunOff	0.411	1.05 *
R4	Stream	2.27 *	RunOff	0.255	0.932 *
R4	Stream 2nd	2.40 *	RunOff	0.399	0.972 *

* Single applications are marked.
** TWA interval as required by ecotox

Lettuce - late -100 g a.s./ha (DGR I / PMT II)

Table 9.2.5- 144: FOCUS Step 3 PECsw and PECsed for fluopicolide, GAP group name lettuce, assessment name late (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.634 *	Spray drift	0.107	0.265 *
D3	Ditch 2nd	0.631 *	Spray drift	0.065	0.196 *
D4	Pond	0.646 *	Drainage	0.644	3.29 *
D4	Stream	0.599 *	Drainage	0.464	1.22 *
D6	Ditch	4.67 *	Drainage	1.57	3.22 *
R1	Pond	0.288 *	RunOff	0.279	1.18 *
R1	Pond 2nd	0.084 *	RunOff	0.081	0.441 *
R1	Stream	1.11 *	RunOff	0.271	0.886 *
R1	Stream 2nd	0.685 *	RunOff	0.044	0.211 *
R2	Stream	0.562 *	Spray drift	0.055	0.478 *
R2	Stream 2nd	0.596 *	RunOff	0.132	0.770 *
R3	Stream	0.862 *	RunOff	0.127	0.321 *
R3	Stream 2nd	1.50 *	RunOff	0.194	0.870 *
R4	Stream	2.01 *	RunOff	0.237	0.840 *
R4	Stream 2nd	1.90 *	RunOff	0.228	0.805 *

* Single applications are marked.
** TWA interval as required by ecotox

Lettuce 2x - double – 2 × 100 g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 145: FOCUS Step 3 PECsw and PECsed for fluopicolide, GAP group name lettuce 2x, assessment name double (DGR II / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.634 *	Spray drift	0.107	0.297
D3	Ditch 2nd	0.631 *	Spray drift	0.065	0.233
D4	Pond	1.53	Drainage	1.52	7.29
D4	Stream	1.46	Drainage	1.18	2.69
D6	Ditch	13.1	Drainage	4.74	8.45
R1	Pond	0.437	RunOff	0.424	1.90
R1	Pond 2nd	0.222	RunOff	0.215	1.07
R1	Stream	2.39	RunOff	0.271	1.47

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
R1	Stream 2nd	1.92	RunOff	0.115	0.543
R2	Stream	0.963	Spray drift	0.149	1.14
R2	Stream 2nd	1.09	RunOff	0.143	1.08
R3	Stream	2.18	RunOff	0.318	0.834
R3	Stream 2nd	2.65	RunOff	0.704	2.22
R4	Stream	3.17	RunOff	0.494	1.43
R4	Stream 2nd	3.29	RunOff	0.466	1.78

* Single applications are marked.
** TWA interval as required by ecotox

Metabolite M-03 (AE 0608000)

Lettuce - early – 100 g a.s./ha (DGR I / PMT I)

Table 9.2.5- 146: FOCUS Step 3 PECsw and PECsed for M-03 (AE 0608000), GAP group name lettuce, assessment name early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.003 *	-	0.003	0.014 *
D3	Ditch 2nd	0.003 *	-	0.003	0.013 *
D4	Pond	0.046 *	-	0.045	0.062 *
D4	Stream	0.084 *	-	0.070	0.112 *
D6	Ditch	0.130 *	-	0.067	0.139 *
R1	Pond	<0.001 *	-	<0.001	<0.001 *
R1	Pond 2nd	0.002 *	-	0.001	<0.001 *
R1	Stream	0.018 *	-	0.002	0.003 *
R1	Stream 2nd	0.031 *	-	0.004	0.007 *
R2	Stream	0.018 *	-	0.003	0.006 *
R2	Stream 2nd	0.056 *	-	0.012	0.015 *
R3	Stream	0.033 *	-	0.005	0.008 *
R3	Stream 2nd	0.062 *	-	0.014	0.017 *
R4	Stream	0.015 *	-	0.002	0.004 *
R4	Stream 2nd	0.040 *	-	0.007	0.009 *

* Single applications are marked.
** TWA interval as required by ecotox

Lettuce - late – 100 g a.s./ha (DGR I / PMT II)

Table 9.2.5- 147: FOCUS Step 3 PECsw and PECsed for M-03 (AE 0608000), GAP group name lettuce, assessment name late (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.002 *	-	0.002	0.008 *
D3	Ditch 2nd	0.002 *	-	0.002	0.007 *
D4	Pond	0.031 *	-	0.030	0.041 *
D4	Stream	0.055 *	-	0.047	0.079 *
D6	Ditch	0.092 *	-	0.056	0.136 *
R1	Pond	0.001 *	-	<0.001	<0.001 *
R1	Pond 2nd	0.001 *	-	<0.001	<0.001 *
R1	Stream	0.015 *	-	0.002	0.003 *
R1	Stream 2nd	0.015 *	-	<0.001	0.002 *
R2	Stream	0.022 *	-	0.002	0.006 *
R2	Stream 2nd	0.015 *	-	0.001	0.004 *
R3	Stream	0.030 *	-	0.003	0.005 *
R3	Stream 2nd	0.064 *	-	0.009	0.012 *
R4	Stream	0.016 *	-	0.002	0.004 *
R4	Stream 2nd	0.023 *	-	0.003	0.006 *

* Single applications are marked.
** TWA interval as required by ecotox

Lettuce 2x - double – 2 × 100 g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 148: FOCUS Step 3 PECsw and PECsed for M-03 (AE 0608000), GAP group name lettuce 2x, assessment name double (DGR II / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	0.005	-	0.005	0.021
D3	Ditch 2nd	0.005	-	0.005	0.019
D4	Pond	0.061	-	0.059	0.081
D4	Stream	0.108	-	0.094	0.154
D6	Ditch	0.184	-	0.121	0.310
R1	Pond	0.003	-	0.001	0.001
R1	Pond 2nd	0.003	-	0.002	0.002
R1	Stream	0.047	-	0.006	0.009
R1	Stream 2nd	0.033	-	0.002	0.005

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
R2	Stream	0.052	-	0.006	0.015
R2	Stream 2nd	0.029	-	0.003	0.006
R3	Stream	0.054	-	0.006	0.015
R3	Stream 2nd	0.064 *	-	0.011	0.015
R4	Stream	0.020	-	0.003	0.005
R4	Stream 2nd	0.032	-	0.005	0.009

* Single applications are marked.
** TWA interval as required by ecotox

FOCUS Step 4 calculations considering various mitigation measures for runoff and spray drift were conducted based on the Step 3 results. This section provides the summary of results in tabular form. Where applicable, the maximum of single and multiple application uses are shown in Table 9.2.5- 149 in Table 9.2.5- 160.

Parent substance fluopicolide

Lettuce - early – 100 g a.s./ha (DGR I / PMT I)

Table 9.2.5- 149: FOCUS Step 4 PECsw results for fluopicolide, GAP group name lettuce, assessment name early (DGR I / PMT I)

PEC_{sw} (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.634	0.172	0.091	0.062	0.047	0.091	0.062	0.047
50 %		0.317	0.086	0.046	0.031	0.024	0.046	0.031	0.024
75 %		0.159	0.043	0.023	0.016	0.012	0.023	0.016	0.012
90 %		0.063	0.017	0.009	0.006	0.005	0.009	0.006	0.005
None	D3 Ditch 2nd	0.635	0.172	0.091	0.062	0.047	0.091	0.062	0.047
50 %		0.317	0.086	0.046	0.031	0.024	0.046	0.031	0.024
75 %		0.159	0.043	0.023	0.016	0.012	0.023	0.016	0.012
90 %		0.064	0.017	0.009	0.006	0.005	0.009	0.006	0.005
None	D4 Pond	0.714	0.714	0.713	0.713	0.713	0.713	0.713	0.713
50 %		0.713	0.713	0.712	0.712	0.712	0.712	0.712	0.712
75 %		0.712	0.712	0.712	0.712	0.712	0.712	0.712	0.712
90 %		0.712	0.712	0.711	0.711	0.711	0.711	0.711	0.711
None	D4 Stream	0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675
50 %		0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675
75 %		0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675
90 %		0.675	0.675	0.675	0.675	0.675	0.675	0.675	0.675
None	D6 Ditch	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67
50 %		1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67

PEC$_{sw}$ (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
75 %		1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67
90 %		1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67
None	R1 Pond	0.094	0.092	0.088	0.086	0.085	0.041	0.039	0.022
50 %		0.086	0.085	0.083	0.082	0.082	0.037	0.036	0.019
75 %		0.082	0.082	0.081	0.080	0.080	0.034	0.034	0.018
90 %		0.080	0.080	0.079	0.079	0.079	0.033	0.032	0.017
None	R1 Pond 2nd	0.079	0.076	0.073	0.071	0.069	0.035	0.033	0.019
50 %		0.071	0.070	0.068	0.067	0.066	0.030	0.029	0.016
75 %		0.067	0.066	0.065	0.065	0.065	0.028	0.027	0.014
90 %		0.065	0.064	0.064	0.064	0.064	0.026	0.026	0.013
None	R1 Stream	1.12	1.12	1.12	1.12	1.12	0.507	0.507	0.265
50 %		1.12	1.12	1.12	1.12	1.12	0.507	0.507	0.265
75 %		1.12	1.12	1.12	1.12	1.12	0.507	0.507	0.265
90 %		1.12	1.12	1.12	1.12	1.12	0.507	0.507	0.265
None	R1 Stream 2nd	0.985	0.985	0.985	0.985	0.985	0.448	0.448	0.235
50 %		0.985	0.985	0.985	0.985	0.985	0.448	0.448	0.235
75 %		0.985	0.985	0.985	0.985	0.985	0.448	0.448	0.235
90 %		0.985	0.985	0.985	0.985	0.985	0.448	0.448	0.235
None	R2 Stream	0.553	0.463	0.463	0.463	0.463	0.207	0.207	0.107
50 %		0.463	0.463	0.463	0.463	0.463	0.207	0.207	0.107
75 %		0.463	0.463	0.463	0.463	0.463	0.207	0.207	0.107
90 %		0.463	0.463	0.463	0.463	0.463	0.207	0.207	0.107
None	R2 Stream 2nd	0.562	0.475	0.475	0.475	0.475	0.213	0.213	0.111
50 %		0.475	0.475	0.475	0.475	0.475	0.213	0.213	0.111
75 %		0.475	0.475	0.475	0.475	0.475	0.213	0.213	0.111
90 %		0.475	0.475	0.475	0.475	0.475	0.213	0.213	0.111
None	R3 Stream	1.31	1.31	1.31	1.31	1.31	0.599	0.599	0.314
50 %		1.31	1.31	1.31	1.31	1.31	0.599	0.599	0.314
75 %		1.31	1.31	1.31	1.31	1.31	0.599	0.599	0.314
90 %		1.31	1.31	1.31	1.31	1.31	0.599	0.599	0.314
None	R3 Stream 2nd	2.00	2.00	2.00	2.00	2.00	0.912	0.912	0.478
50 %		2.00	2.00	2.00	2.00	2.00	0.912	0.912	0.478
75 %		2.00	2.00	2.00	2.00	2.00	0.912	0.912	0.478
90 %		2.00	2.00	2.00	2.00	2.00	0.912	0.912	0.478
None	R4 Stream	2.27	2.27	2.27	2.27	2.27	1.03	1.03	0.540
50 %		2.27	2.27	2.27	2.27	2.27	1.03	1.03	0.540
75 %		2.27	2.27	2.27	2.27	2.27	1.03	1.03	0.540

PEC$_{sw}$ (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
90 %		2.27	2.27	2.27	2.27	2.27	1.03	1.03	0.540
None	R4 Stream 2nd	2.40	2.40	2.40	2.40	2.40	1.09	1.09	0.571
50 %		2.40	2.40	2.40	2.40	2.40	1.09	1.09	0.571
75 %		2.40	2.40	2.40	2.40	2.40	1.09	1.09	0.571
90 %		2.40	2.40	2.40	2.40	2.40	1.09	1.09	0.571

<u>**Lettuce - late – 100 g a.s./ha (DGR I / PMT II)**</u>

Table 9.2.5- 150: FOCUS Step 4 PECsw results for fluopicolide, GAP group name lettuce, assessment name late (DGR I / PMT II)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.634	0.172	0.091	0.062	0.047	0.091	0.062	0.047
50 %		0.317	0.086	0.046	0.031	0.024	0.046	0.031	0.024
75 %		0.159	0.043	0.023	0.016	0.012	0.023	0.016	0.012
90 %		0.063	0.017	0.009	0.006	0.005	0.009	0.006	0.005
None	D3 Ditch 2nd	0.631	0.171	0.091	0.062	0.047	0.091	0.062	0.047
50 %		0.316	0.086	0.045	0.031	0.024	0.045	0.031	0.024
75 %		0.158	0.043	0.023	0.016	0.012	0.023	0.016	0.012
90 %		0.063	0.017	0.009	0.006	0.005	0.009	0.006	0.005
None	D4 Pond	0.646	0.645	0.643	0.642	0.642	0.643	0.642	0.642
50 %		0.642	0.642	0.641	0.641	0.641	0.641	0.641	0.641
75 %		0.641	0.641	0.640	0.640	0.640	0.640	0.640	0.640
90 %		0.640	0.640	0.640	0.640	0.639	0.640	0.640	0.639
None	D4 Stream	0.599	0.599	0.599	0.599	0.599	0.599	0.599	0.599
50 %		0.599	0.599	0.599	0.599	0.599	0.599	0.599	0.599
75 %		0.599	0.599	0.599	0.599	0.599	0.599	0.599	0.599
90 %		0.599	0.599	0.599	0.599	0.599	0.599	0.599	0.599
None	D6 Ditch	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67
50 %		4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67
75 %		4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67
90 %		4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67
None	R1 Pond	0.288	0.286	0.282	0.280	0.279	0.121	0.119	0.063

PEC$_{sw}$ (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		0.280	0.279	0.277	0.276	0.275	0.116	0.115	0.059
75 %		0.276	0.275	0.275	0.274	0.274	0.114	0.113	0.058
90 %		0.274	0.273	0.273	0.273	0.273	0.112	0.112	0.057
None	R1 Pond 2nd	0.084	0.083	0.081	0.080	0.080	0.038	0.037	0.020
50 %		0.080	0.080	0.079	0.078	0.078	0.035	0.035	0.018
75 %		0.078	0.078	0.078	0.077	0.077	0.034	0.033	0.017
90 %		0.077	0.077	0.077	0.077	0.077	0.033	0.033	0.017
None	R1 Stream	1.11	1.11	1.11	1.11	1.11	0.499	0.499	0.262
50 %		1.11	1.11	1.11	1.11	1.11	0.499	0.499	0.262
75 %		1.11	1.11	1.11	1.11	1.11	0.499	0.499	0.262
90 %		1.11	1.11	1.11	1.11	1.11	0.499	0.499	0.262
None	R1 Stream 2nd	0.685	0.685	0.685	0.685	0.685	0.312	0.312	0.163
50 %		0.685	0.685	0.685	0.685	0.685	0.312	0.312	0.163
75 %		0.685	0.685	0.685	0.685	0.685	0.312	0.312	0.163
90 %		0.685	0.685	0.685	0.685	0.685	0.312	0.312	0.163
None	R2 Stream	0.562	0.354	0.354	0.354	0.354	0.161	0.161	0.084
50 %		0.354	0.354	0.354	0.354	0.354	0.161	0.161	0.084
75 %		0.354	0.354	0.354	0.354	0.354	0.161	0.161	0.084
90 %		0.354	0.354	0.354	0.354	0.354	0.161	0.161	0.084
None	R2 Stream 2nd	0.596	0.596	0.596	0.596	0.596	0.271	0.271	0.142
50 %		0.596	0.596	0.596	0.596	0.596	0.271	0.271	0.142
75 %		0.596	0.596	0.596	0.596	0.596	0.271	0.271	0.142
90 %		0.596	0.596	0.596	0.596	0.596	0.271	0.271	0.142
None	R3 Stream	0.862	0.862	0.862	0.862	0.862	0.376	0.376	0.194
50 %		0.862	0.862	0.862	0.862	0.862	0.376	0.376	0.194
75 %		0.862	0.862	0.862	0.862	0.862	0.376	0.376	0.194
90 %		0.862	0.862	0.862	0.862	0.862	0.376	0.376	0.194
None	R3 Stream 2nd	1.50	1.50	1.50	1.50	1.50	0.683	0.683	0.358
50 %		1.50	1.50	1.50	1.50	1.50	0.683	0.683	0.358
75 %		1.50	1.50	1.50	1.50	1.50	0.683	0.683	0.358
90 %		1.50	1.50	1.50	1.50	1.50	0.683	0.683	0.358
None	R4 Stream	2.01	2.01	2.01	2.01	2.01	0.915	0.915	0.479
50 %		2.01	2.01	2.01	2.01	2.01	0.915	0.915	0.479
75 %		2.01	2.01	2.01	2.01	2.01	0.915	0.915	0.479
90 %		2.01	2.01	2.01	2.01	2.01	0.915	0.915	0.479
None	R4 Stream 2nd	1.90	1.90	1.90	1.90	1.90	0.866	0.866	0.454
50 %		1.90	1.90	1.90	1.90	1.90	0.866	0.866	0.454

PEC$_{sw}$ (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
75 %		1.90	1.90	1.90	1.90	1.90	0.866	0.866	0.454
90 %		1.90	1.90	1.90	1.90	1.90	0.866	0.866	0.454

Lettuce 2x - double – 2 × 100 g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 151: FOCUS Step 4 PECsw results for fluopicolide, GAP group name lettuce 2x, assessment name double (DGR II / PMT III)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.634	0.172	0.091	0.062	0.047	0.091	0.062	0.047
50 %		0.317	0.086	0.046	0.031	0.024	0.046	0.031	0.024
75 %		0.159	0.043	0.023	0.016	0.012	0.023	0.016	0.012
90 %		0.063	0.017	0.009	0.006	0.005	0.009	0.006	0.005
None	D3 Ditch 2nd	0.631	0.171	0.091	0.062	0.047	0.091	0.062	0.047
50 %		0.316	0.086	0.045	0.031	0.024	0.045	0.031	0.024
75 %		0.158	0.043	0.023	0.016	0.012	0.023	0.016	0.012
90 %		0.063	0.017	0.009	0.006	0.005	0.009	0.006	0.005
None	D4 Pond	*1.53*	*1.52*	*1.52*	*1.52*	*1.52*	*1.52*	*1.52*	*1.52*
50 %		*1.52*	*1.52*	*1.52*	*1.52*	*1.52*	*1.52*	*1.52*	*1.52*
75 %		*1.52*	*1.52*	*1.52*	*1.52*	*1.52*	*1.52*	*1.52*	*1.52*
90 %		*1.52*	*1.52*	*1.52*	*1.51*	*1.51*	*1.52*	*1.51*	*1.51*
None	D4 Stream	*1.46*	*1.46*	*1.46*	*1.46*	*1.46*	*1.46*	*1.46*	*1.46*
50 %		*1.46*	*1.46*	*1.46*	*1.46*	*1.46*	*1.46*	*1.46*	*1.46*
75 %		*1.46*	*1.46*	*1.46*	*1.46*	*1.46*	*1.46*	*1.46*	*1.46*
90 %		*1.46*	*1.46*	*1.46*	*1.46*	*1.46*	*1.46*	*1.46*	*1.46*
None	D6 Ditch	*13.1*	*13.1*	*13.1*	*13.1*	*13.1*	*13.1*	*13.1*	*13.1*
50 %		*13.1*	*13.1*	*13.1*	*13.1*	*13.1*	*13.1*	*13.1*	*13.1*
75 %		*13.1*	*13.1*	*13.1*	*13.1*	*13.1*	*13.1*	*13.1*	*13.1*
90 %		*13.1*	*13.1*	*13.1*	*13.1*	*13.1*	*13.1*	*13.1*	*13.1*
None	R1 Pond	*0.437*	*0.433*	*0.426*	*0.422*	*0.420*	*0.184*	*0.180*	*0.095*
50 %		*0.423*	*0.421*	*0.417*	*0.415*	*0.414*	*0.175*	*0.173*	*0.089*
75 %		*0.416*	*0.415*	*0.413*	*0.412*	*0.411*	*0.170*	*0.169*	*0.086*
90 %		*0.411*	*0.411*	*0.410*	*0.410*	*0.409*	*0.168*	*0.167*	*0.085*

PEC$_{sw}$ (µg/L)	**Scenario**	**Step 4 fluopicolide**							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	R1 Pond 2nd	*0.222*	*0.220*	*0.217*	*0.215*	*0.214*	*0.098*	*0.096*	*0.051*
50 %		*0.215*	*0.215*	*0.213*	*0.212*	*0.211*	*0.093*	*0.092*	*0.048*
75 %		*0.212*	*0.212*	*0.211*	*0.210*	*0.210*	*0.091*	*0.090*	*0.047*
90 %		*0.210*	*0.210*	*0.210*	*0.209*	*0.209*	*0.089*	*0.089*	*0.046*
None	R1 Stream	*2.39*	*2.39*	*2.39*	*2.39*	*2.39*	*1.09*	*1.09*	*0.569*
50 %		*2.39*	*2.39*	*2.39*	*2.39*	*2.39*	*1.09*	*1.09*	*0.569*
75 %		*2.39*	*2.39*	*2.39*	*2.39*	*2.39*	*1.09*	*1.09*	*0.569*
90 %		*2.39*	*2.39*	*2.39*	*2.39*	*2.39*	*1.09*	*1.09*	*0.569*
None	R1 Stream 2nd	*1.92*	*1.92*	*1.92*	*1.92*	*1.92*	*0.872*	*0.872*	*0.457*
50 %		*1.92*	*1.92*	*1.92*	*1.92*	*1.92*	*0.872*	*0.872*	*0.457*
75 %		*1.92*	*1.92*	*1.92*	*1.92*	*1.92*	*0.872*	*0.872*	*0.457*
90 %		*1.92*	*1.92*	*1.92*	*1.92*	*1.92*	*0.872*	*0.872*	*0.457*
None	R2 Stream	*0.963*	*0.963*	*0.963*	*0.963*	*0.963*	*0.438*	*0.438*	*0.230*
50 %		*0.963*	*0.963*	*0.963*	*0.963*	*0.963*	*0.438*	*0.438*	*0.230*
75 %		*0.963*	*0.963*	*0.963*	*0.963*	*0.963*	*0.438*	*0.438*	*0.230*
90 %		*0.963*	*0.963*	*0.963*	*0.963*	*0.963*	*0.438*	*0.438*	*0.230*
None	R2 Stream 2nd	*1.09*	*1.09*	*1.09*	*1.09*	*1.09*	*0.496*	*0.496*	*0.260*
50 %		*1.09*	*1.09*	*1.09*	*1.09*	*1.09*	*0.496*	*0.496*	*0.260*
75 %		*1.09*	*1.09*	*1.09*	*1.09*	*1.09*	*0.496*	*0.496*	*0.260*
90 %		*1.09*	*1.09*	*1.09*	*1.09*	*1.09*	*0.496*	*0.496*	*0.260*
None	R3 Stream	*2.18*	*2.18*	*2.18*	*2.18*	*2.18*	*0.992*	*0.992*	*0.519*
50 %		*2.18*	*2.18*	*2.18*	*2.18*	*2.18*	*0.992*	*0.992*	*0.519*
75 %		*2.18*	*2.18*	*2.18*	*2.18*	*2.18*	*0.992*	*0.992*	*0.519*
90 %		*2.18*	*2.18*	*2.18*	*2.18*	*2.18*	*0.992*	*0.992*	*0.519*
None	R3 Stream 2nd	*2.65*	*2.65*	*2.65*	*2.65*	*2.65*	*1.21*	*1.21*	*0.634*
50 %		*2.65*	*2.65*	*2.65*	*2.65*	*2.65*	*1.21*	*1.21*	*0.634*
75 %		*2.65*	*2.65*	*2.65*	*2.65*	*2.65*	*1.21*	*1.21*	*0.634*
90 %		*2.65*	*2.65*	*2.65*	*2.65*	*2.65*	*1.21*	*1.21*	*0.634*
None	R4 Stream	*3.17*	*3.17*	*3.17*	*3.17*	*3.17*	*1.44*	*1.44*	*0.752*
50 %		*3.17*	*3.17*	*3.17*	*3.17*	*3.17*	*1.44*	*1.44*	*0.752*
75 %		*3.17*	*3.17*	*3.17*	*3.17*	*3.17*	*1.44*	*1.44*	*0.752*
90 %		*3.17*	*3.17*	*3.17*	*3.17*	*3.17*	*1.44*	*1.44*	*0.752*
None	R4 Stream 2nd	*3.29*	*3.29*	*3.29*	*3.29*	*3.29*	*1.50*	*1.50*	*0.786*
50 %		*3.29*	*3.29*	*3.29*	*3.29*	*3.29*	*1.50*	*1.50*	*0.786*
75 %		*3.29*	*3.29*	*3.29*	*3.29*	*3.29*	*1.50*	*1.50*	*0.786*
90 %		*3.29*	*3.29*	*3.29*	*3.29*	*3.29*	*1.50*	*1.50*	*0.786*

* Maximum values coming from multiple applications are marked in italics

Metabolite M-03 (AE 0608000)

Lettuce - early – 100 g a.s./ha (DGR I / PMT I)

Table 9.2.5- 152: FOCUS Step 4 PECsw results for M-03 (AE 0608000), GAP group name lettuce, assessment name early (DGR I / PMT I)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
50 %		0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
75 %		0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
90 %		0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
None	D3 Ditch 2nd	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
50 %		0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
75 %		0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
90 %		0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
None	D4 Pond	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
50 %		0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
75 %		0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
90 %		0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
None	D4 Stream	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084
50 %		0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084
75 %		0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084
90 %		0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084
None	D6 Ditch	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130
50 %		0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130
75 %		0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130
90 %		0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130
None	R1 Pond	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
50 %		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
75 %		<0.001	<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	R1 Pond 2nd	0.002	0.002	0.002	0.002	0.002	<0.001	<0.001	<0.001
50 %		0.002	0.002	0.002	0.002	0.002	<0.001	<0.001	<0.001
75 %		0.002	0.002	0.002	0.002	0.002	<0.001	<0.001	<0.001
90 %		0.002	0.002	0.002	0.002	0.002	<0.001	<0.001	<0.001
None	R1 Stream	0.018	0.018	0.018	0.018	0.018	0.008	0.008	0.004
50 %		0.018	0.018	0.018	0.018	0.018	0.008	0.008	0.004
75 %		0.018	0.018	0.018	0.018	0.018	0.008	0.008	0.004

PEC_{sw} (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
90 %		0.018	0.018	0.018	0.018	0.018	0.008	0.008	0.004
None	R1 Stream 2nd	0.031	0.031	0.031	0.031	0.031	0.014	0.014	0.008
50 %		0.031	0.031	0.031	0.031	0.031	0.014	0.014	0.008
75 %		0.031	0.031	0.031	0.031	0.031	0.014	0.014	0.008
90 %		0.031	0.031	0.031	0.031	0.031	0.014	0.014	0.008
None	R2 Stream	0.018	0.018	0.018	0.018	0.018	0.008	0.008	0.004
50 %		0.018	0.018	0.018	0.018	0.018	0.008	0.008	0.004
75 %		0.018	0.018	0.018	0.018	0.018	0.008	0.008	0.004
90 %		0.018	0.018	0.018	0.018	0.018	0.008	0.008	0.004
None	R2 Stream 2nd	0.056	0.056	0.056	0.056	0.056	0.025	0.025	0.013
50 %		0.056	0.056	0.056	0.056	0.056	0.025	0.025	0.013
75 %		0.056	0.056	0.056	0.056	0.056	0.025	0.025	0.013
90 %		0.056	0.056	0.056	0.056	0.056	0.025	0.025	0.013
None	R3 Stream	0.033	0.033	0.033	0.033	0.033	0.015	0.015	0.008
50 %		0.033	0.033	0.033	0.033	0.033	0.015	0.015	0.008
75 %		0.033	0.033	0.033	0.033	0.033	0.015	0.015	0.008
90 %		0.033	0.033	0.033	0.033	0.033	0.015	0.015	0.008
None	R3 Stream 2nd	0.062	0.062	0.062	0.062	0.062	0.028	0.028	0.015
50 %		0.062	0.062	0.062	0.062	0.062	0.028	0.028	0.015
75 %		0.062	0.062	0.062	0.062	0.062	0.028	0.028	0.015
90 %		0.062	0.062	0.062	0.062	0.062	0.028	0.028	0.015
None	R4 Stream	0.015	0.015	0.015	0.015	0.015	0.007	0.007	0.004
50 %		0.015	0.015	0.015	0.015	0.015	0.007	0.007	0.004
75 %		0.015	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	0.004
None	R4 Stream 2nd	0.040	0.040	0.040	0.040	0.040	0.018	0.018	0.010
50 %		0.040	0.040	0.040	0.040	0.040	0.018	0.018	0.010
75 %		0.040	0.040	0.040	0.040	0.040	0.018	0.018	0.010
90 %		0.040	0.040	0.040	0.040	0.040	0.018	0.018	0.010

Lettuce - late – 100 g a.s./ha (DGR I / PMT II)

Table 9.2.5- 153: FOCUS Step 4 PECsw results for M-03 (AE 0608000), GAP group name lettuce, assessment name late (DGR I / PMT II)

PEC$_{sw}$ (µg/L)	**Scenario**	**Step 4 M-03 (AE 0608000)**							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
50 %		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
75 %		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
90 %		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
None	D3 Ditch 2nd	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
50 %		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
75 %		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
90 %		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
None	D4 Pond	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
50 %		0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
75 %		0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
90 %		0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
None	D4 Stream	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055
50 %		0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055
75 %		0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055
90 %		0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055
None	D6 Ditch	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092
50 %		0.092	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	R1 Pond	0.001	0.001	0.001	0.001	0.001	<0.001	<0.001	<0.001
50 %		0.001	0.001	0.001	0.001	0.001	<0.001	<0.001	<0.001
75 %		0.001	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	R1 Pond 2nd	0.001	0.001	0.001	0.001	0.001	<0.001	<0.001	<0.001
50 %		0.001	0.001	0.001	0.001	0.001	<0.001	<0.001	<0.001
75 %		0.001	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	R1 Stream	0.015	0.015	0.015	0.015	0.015	0.007	0.007	0.004
50 %		0.015	0.015	0.015	0.015	0.015	0.007	0.007	0.004
75 %		0.015	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	0.004
None	R1 Stream	0.015	0.015	0.015	0.015	0.015	0.007	0.007	0.004

PEC$_{sw}$ (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %	2nd	0.015	0.015	0.015	0.015	0.015	0.007	0.007	0.004
75 %		0.015	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	0.004
None	R2 Stream	0.022	0.022	0.022	0.022	0.022	0.010	0.010	0.005
50 %		0.022	0.022	0.022	0.022	0.022	0.010	0.010	0.005
75 %		0.022	0.022	0.022	0.022	0.022	0.010	0.010	0.005
90 %		0.022	0.022	0.022	0.022	0.022	0.010	0.010	0.005
None	R2 Stream 2nd	0.015	0.015	0.015	0.015	0.015	0.007	0.007	0.004
50 %		0.015	0.015	0.015	0.015	0.015	0.007	0.007	0.004
75 %		0.015	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	0.004
None	R3 Stream	0.030	0.030	0.030	0.030	0.030	0.013	0.013	0.007
50 %		0.030	0.030	0.030	0.030	0.030	0.013	0.013	0.007
75 %		0.030	0.030	0.030	0.030	0.030	0.013	0.013	0.007
90 %		0.030	0.030	0.030	0.030	0.030	0.013	0.013	0.007
None	R3 Stream 2nd	0.064	0.064	0.064	0.064	0.064	0.029	0.029	0.015
50 %		0.064	0.064	0.064	0.064	0.064	0.029	0.029	0.015
75 %		0.064	0.064	0.064	0.064	0.064	0.029	0.029	0.015
90 %		0.064	0.064	0.064	0.064	0.064	0.029	0.029	0.015
None	R4 Stream	0.016	0.016	0.016	0.016	0.016	0.007	0.007	0.004
50 %		0.016	0.016	0.016	0.016	0.016	0.007	0.007	0.004
75 %		0.016	0.016	0.016	0.016	0.016	0.007	0.007	0.004
90 %		0.016	0.016	0.016	0.016	0.016	0.007	0.007	0.004
None	R4 Stream 2nd	0.023	0.023	0.023	0.023	0.023	0.011	0.011	0.006
50 %		0.023	0.023	0.023	0.023	0.023	0.011	0.011	0.006
75 %		0.023	0.023	0.023	0.023	0.023	0.011	0.011	0.006
90 %		0.023	0.023	0.023	0.023	0.023	0.011	0.011	0.006

Lettuce 2x - double – 2 × 100 g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 154: FOCUS Step 4 PECsw results for M-03 (AE 0608000), GAP group name lettuce 2x, assessment name double (DGR II / PMT III)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*
50 %		*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*
75 %		*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*
90 %		*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*
None	D3 Ditch 2nd	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*
50 %		*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*
75 %		*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*
90 %		*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*
None	D4 Pond	*0.061*	*0.061*	*0.061*	*0.061*	*0.061*	*0.061*	*0.061*	*0.061*
50 %		*0.061*	*0.061*	*0.061*	*0.061*	*0.061*	*0.061*	*0.061*	*0.061*
75 %		*0.061*	*0.061*	*0.061*	*0.061*	*0.061*	*0.061*	*0.061*	*0.061*
90 %		*0.061*	*0.061*	*0.061*	*0.061*	*0.061*	*0.061*	*0.061*	*0.061*
None	D4 Stream	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*
50 %		*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*
75 %		*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*
90 %		*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*	*0.108*
None	D6 Ditch	*0.184*	*0.184*	*0.184*	*0.184*	*0.184*	*0.184*	*0.184*	*0.184*
50 %		*0.184*	*0.184*	*0.184*	*0.184*	*0.184*	*0.184*	*0.184*	*0.184*
75 %		*0.184*	*0.184*	*0.184*	*0.184*	*0.184*	*0.184*	*0.184*	*0.184*
90 %		*0.184*	*0.184*	*0.184*	*0.184*	*0.184*	*0.184*	*0.184*	*0.184*
None	R1 Pond	*0.003*	*0.003*	*0.003*	*0.003*	*0.003*	*0.001*	*0.001*	*<0.001*
50 %		*0.003*	*0.003*	*0.003*	*0.003*	*0.003*	*0.001*	*0.001*	*<0.001*
75 %		*0.003*	*0.003*	*0.003*	*0.003*	*0.003*	*0.001*	*0.001*	*<0.001*
90 %		*0.003*	*0.003*	*0.003*	*0.003*	*0.003*	*0.001*	*0.001*	*<0.001*
None	R1 Pond 2nd	*0.003*	*0.003*	*0.003*	*0.003*	*0.003*	*0.001*	*0.001*	*<0.001*
50 %		*0.003*	*0.003*	*0.003*	*0.003*	*0.003*	*0.001*	*0.001*	*<0.001*
75 %		*0.003*	*0.003*	*0.003*	*0.003*	*0.003*	*0.001*	*0.001*	*<0.001*
90 %		*0.003*	*0.003*	*0.003*	*0.003*	*0.003*	*0.001*	*0.001*	*<0.001*
None	R1 Stream	*0.047*	*0.047*	*0.047*	*0.047*	*0.047*	*0.021*	*0.021*	*0.011*
50 %		*0.047*	*0.047*	*0.047*	*0.047*	*0.047*	*0.021*	*0.021*	*0.011*
75 %		*0.047*	*0.047*	*0.047*	*0.047*	*0.047*	*0.021*	*0.021*	*0.011*
90 %		*0.047*	*0.047*	*0.047*	*0.047*	*0.047*	*0.021*	*0.021*	*0.011*
None	R1 Stream	*0.033*	*0.033*	*0.033*	*0.033*	*0.033*	*0.015*	*0.015*	*0.008*

PEC$_{sw}$ (µg/L)	**Scenario**	**Step 4 M-03 (AE 0608000)**							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %	2nd	*0.033*	*0.033*	*0.033*	*0.033*	*0.033*	*0.015*	*0.015*	*0.008*
75 %		*0.033*	*0.033*	*0.033*	*0.033*	*0.033*	*0.015*	*0.015*	*0.008*
90 %		*0.033*	*0.033*	*0.033*	*0.033*	*0.033*	*0.015*	*0.015*	*0.008*
None	R2 Stream	*0.052*	*0.052*	*0.052*	*0.052*	*0.052*	*0.024*	*0.024*	*0.012*
50 %		*0.052*	*0.052*	*0.052*	*0.052*	*0.052*	*0.024*	*0.024*	*0.012*
75 %		*0.052*	*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	R2 Stream 2nd	*0.029*	*0.029*	*0.029*	*0.029*	*0.029*	*0.013*	*0.013*	*0.007*
50 %		*0.029*	*0.029*	*0.029*	*0.029*	*0.029*	*0.013*	*0.013*	*0.007*
75 %		*0.029*	*0.029*	*0.029*	*0.029*	*0.029*	*0.013*	*0.013*	*0.007*
90 %		*0.029*	*0.029*	*0.029*	*0.029*	*0.029*	*0.013*	*0.013*	*0.007*
None	R3 Stream	*0.054*	*0.054*	*0.054*	*0.054*	*0.054*	*0.024*	*0.024*	*0.013*
50 %		*0.054*	*0.054*	*0.054*	*0.054*	*0.054*	*0.024*	*0.024*	*0.013*
75 %		*0.054*	*0.054*	*0.054*	*0.054*	*0.054*	*0.024*	*0.024*	*0.013*
90 %		*0.054*	*0.054*	*0.054*	*0.054*	*0.054*	*0.024*	*0.024*	*0.013*
None	R3 Stream 2nd	0.064	0.064	0.064	0.064	0.064	0.029	0.029	0.015
50 %		0.064	0.064	0.064	0.064	0.064	0.029	0.029	0.015
75 %		0.064	0.064	0.064	0.064	0.064	0.029	0.029	0.015
90 %		0.064	0.064	0.064	0.064	0.064	0.029	0.029	0.015
None	R4 Stream	*0.020*	*0.020*	*0.020*	*0.020*	*0.020*	*0.009*	*0.009*	*0.005*
50 %		*0.020*	*0.020*	*0.020*	*0.020*	*0.020*	*0.009*	*0.009*	*0.005*
75 %		*0.020*	*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	R4 Stream 2nd	*0.032*	*0.032*	*0.032*	*0.032*	*0.032*	*0.014*	*0.014*	*0.008*
50 %		*0.032*	*0.032*	*0.032*	*0.032*	*0.032*	*0.014*	*0.014*	*0.008*
75 %		*0.032*	*0.032*	*0.032*	*0.032*	*0.032*	*0.014*	*0.014*	*0.008*
90 %		*0.032*	*0.032*	*0.032*	*0.032*	*0.032*	*0.014*	*0.014*	*0.008*

* Maximum values coming from multiple applications are marked in italics

FOCUS Step 4 PECsed

Parent substance fluopicolide

Lettuce - early – 100 g a.s./ha (DGR I / PMT I)

Table 9.2.5- 155: FOCUS Step 4 PECsed results for fluopicolide, GAP group name lettuce, assessment name early (DGR I / PMT I)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.262	0.075	0.041	0.029	0.022	0.041	0.029	0.022
50 %		0.135	0.039	0.021	0.015	0.011	0.021	0.015	0.011
75 %		0.070	0.020	0.011	0.008	0.006	0.011	0.008	0.006
90 %		0.029	0.008	0.005	0.003	0.003	0.005	0.003	0.003
None	D3 Ditch 2nd	0.276	0.079	0.043	0.030	0.023	0.043	0.030	0.023
50 %		0.142	0.041	0.022	0.016	0.012	0.022	0.016	0.012
75 %		0.073	0.021	0.012	0.008	0.006	0.012	0.008	0.006
90 %		0.031	0.009	0.005	0.003	0.003	0.005	0.003	0.003
None	D4 Pond	3.66	3.65	3.64	3.63	3.63	3.64	3.63	3.63
50 %		3.63	3.63	3.62	3.62	3.62	3.62	3.62	3.62
75 %		3.62	3.62	3.62	3.61	3.61	3.62	3.61	3.61
90 %		3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61
None	D4 Stream	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
50 %		1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
75 %		1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
90 %		1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
None	D6 Ditch	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73
50 %		1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73
75 %		1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73
90 %		1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73
None	R1 Pond	0.431	0.421	0.405	0.396	0.391	0.205	0.196	0.116
50 %		0.396	0.392	0.383	0.379	0.376	0.182	0.178	0.100
75 %		0.379	0.377	0.373	0.370	0.369	0.171	0.169	0.092
90 %		0.369	0.368	0.366	0.365	0.365	0.164	0.163	0.088
None	R1 Pond 2nd	0.430	0.421	0.404	0.395	0.389	0.204	0.194	0.115
50 %		0.395	0.390	0.381	0.377	0.374	0.181	0.176	0.099
75 %		0.377	0.375	0.370	0.368	0.367	0.169	0.167	0.091
90 %		0.366	0.366	0.364	0.363	0.362	0.162	0.161	0.086
None	R1 Stream	0.357	0.353	0.352	0.352	0.352	0.160	0.160	0.085
50 %		0.354	0.352	0.352	0.352	0.352	0.160	0.159	0.085

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
75 %		0.353	0.352	0.352	0.352	0.351	0.159	0.159	0.084
90 %		0.352	0.352	0.351	0.351	0.351	0.159	0.159	0.084
None	R1 Stream 2nd	0.409	0.405	0.404	0.403	0.403	0.186	0.186	0.100
50 %		0.406	0.403	0.403	0.403	0.403	0.186	0.185	0.099
75 %		0.404	0.403	0.403	0.402	0.402	0.185	0.185	0.099
90 %		0.403	0.402	0.402	0.402	0.402	0.185	0.185	0.099
None	R2 Stream	0.258	0.256	0.256	0.256	0.256	0.099	0.098	0.051
50 %		0.257	0.256	0.256	0.256	0.256	0.098	0.098	0.051
75 %		0.256	0.256	0.256	0.256	0.256	0.098	0.098	0.051
90 %		0.256	0.256	0.256	0.256	0.256	0.098	0.098	0.051
None	R2 Stream 2nd	0.536	0.535	0.534	0.534	0.534	0.182	0.181	0.091
50 %		0.535	0.534	0.534	0.534	0.534	0.181	0.181	0.091
75 %		0.534	0.534	0.534	0.534	0.534	0.181	0.181	0.091
90 %		0.534	0.534	0.534	0.534	0.534	0.181	0.181	0.091
None	R3 Stream	0.616	0.608	0.606	0.605	0.605	0.277	0.276	0.149
50 %		0.610	0.606	0.605	0.604	0.604	0.276	0.275	0.148
75 %		0.607	0.605	0.604	0.604	0.604	0.275	0.275	0.147
90 %		0.605	0.604	0.603	0.603	0.603	0.275	0.275	0.147
None	R3 Stream 2nd	1.05	1.03	1.03	1.02	1.02	0.417	0.415	0.218
50 %		1.04	1.02	1.02	1.02	1.02	0.413	0.412	0.216
75 %		1.03	1.02	1.02	1.02	1.02	0.411	0.411	0.215
90 %		1.02	1.02	1.02	1.02	1.02	0.410	0.410	0.214
None	R4 Stream	0.932	0.925	0.924	0.923	0.923	0.418	0.417	0.223
50 %		0.927	0.923	0.923	0.922	0.922	0.417	0.416	0.222
75 %		0.924	0.923	0.922	0.922	0.922	0.416	0.416	0.222
90 %		0.923	0.922	0.922	0.922	0.922	0.416	0.416	0.222
None	R4 Stream 2nd	0.972	0.964	0.962	0.962	0.961	0.436	0.435	0.232
50 %		0.966	0.962	0.961	0.961	0.961	0.435	0.434	0.231
75 %		0.963	0.961	0.961	0.960	0.960	0.434	0.434	0.231
90 %		0.961	0.960	0.960	0.960	0.960	0.434	0.434	0.231

Lettuce - late – 100 g a.s./ha (DGR I / PMT II)

Table 9.2.5- 156: FOCUS Step 4 PECsed results for fluopicolide, GAP group name lettuce, assessment name late (DGR I / PMT II)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.265	0.076	0.042	0.029	0.022	0.042	0.029	0.022
50 %		0.137	0.039	0.021	0.015	0.011	0.021	0.015	0.011
75 %		0.070	0.020	0.011	0.008	0.006	0.011	0.008	0.006
90 %		0.029	0.008	0.005	0.003	0.003	0.005	0.003	0.003
None	D3 Ditch 2nd	0.196	0.056	0.030	0.021	0.016	0.030	0.021	0.016
50 %		0.101	0.029	0.016	0.011	0.008	0.016	0.011	0.008
75 %		0.052	0.015	0.008	0.006	0.004	0.008	0.006	0.004
90 %		0.021	0.006	0.003	0.002	0.002	0.003	0.002	0.002
None	D4 Pond	3.29	3.29	3.27	3.27	3.26	3.27	3.27	3.26
50 %		3.27	3.26	3.26	3.25	3.25	3.26	3.25	3.25
75 %		3.25	3.25	3.25	3.25	3.24	3.25	3.25	3.24
90 %		3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24
None	D4 Stream	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22
50 %		1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22
75 %		1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22
90 %		1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22
None	D6 Ditch	3.22	3.21	3.21	3.21	3.21	3.21	3.21	3.21
50 %		3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.21
75 %		3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.21
90 %		3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.21
None	R1 Pond	1.18	1.17	1.15	1.14	1.14	0.528	0.519	0.285
50 %		1.14	1.14	1.13	1.13	1.13	0.506	0.501	0.269
75 %		1.13	1.13	1.12	1.12	1.12	0.495	0.493	0.261
90 %		1.12	1.12	1.12	1.12	1.12	0.488	0.487	0.257
None	R1 Pond 2nd	0.441	0.432	0.416	0.407	0.401	0.213	0.203	0.120
50 %		0.407	0.403	0.394	0.390	0.387	0.190	0.185	0.104
75 %		0.390	0.388	0.384	0.382	0.380	0.179	0.176	0.096
90 %		0.380	0.379	0.378	0.377	0.376	0.172	0.171	0.092
None	R1 Stream	0.886	0.880	0.879	0.878	0.878	0.327	0.327	0.168
50 %		0.881	0.878	0.878	0.877	0.877	0.326	0.326	0.167
75 %		0.879	0.878	0.877	0.877	0.877	0.326	0.326	0.167
90 %		0.878	0.877	0.877	0.877	0.877	0.325	0.325	0.167
None	R1 Stream	0.211	0.208	0.207	0.207	0.207	0.095	0.094	0.050

PEC$_{sed}$ (µg/kg)	**Scenario**	**Step 4 fluopicolide**							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %	2nd	0.209	0.207	0.207	0.206	0.206	0.094	0.094	0.050
75 %		0.207	0.207	0.206	0.206	0.206	0.094	0.094	0.050
90 %		0.207	0.206	0.206	0.206	0.206	0.094	0.094	0.050
None	R2 Stream	0.478	0.475	0.474	0.474	0.474	0.132	0.132	0.062
50 %		0.476	0.474	0.474	0.474	0.474	0.131	0.131	0.062
75 %		0.475	0.474	0.474	0.474	0.473	0.131	0.131	0.062
90 %		0.474	0.474	0.473	0.473	0.473	0.131	0.131	0.062
None	R2 Stream 2nd	0.770	0.766	0.765	0.765	0.764	0.227	0.226	0.109
50 %		0.767	0.765	0.764	0.764	0.764	0.226	0.226	0.109
75 %		0.765	0.764	0.764	0.764	0.764	0.226	0.226	0.109
90 %		0.764	0.764	0.764	0.764	0.764	0.226	0.226	0.109
None	R3 Stream	0.321	0.312	0.309	0.308	0.307	0.144	0.143	0.077
50 %		0.314	0.309	0.307	0.307	0.306	0.142	0.142	0.076
75 %		0.310	0.307	0.306	0.306	0.306	0.141	0.141	0.075
90 %		0.307	0.306	0.306	0.306	0.306	0.141	0.141	0.075
None	R3 Stream 2nd	0.870	0.853	0.848	0.846	0.845	0.307	0.305	0.156
50 %		0.857	0.847	0.845	0.844	0.843	0.304	0.303	0.154
75 %		0.849	0.845	0.843	0.843	0.843	0.303	0.302	0.154
90 %		0.845	0.843	0.842	0.842	0.842	0.302	0.301	0.153
None	R4 Stream	0.840	0.833	0.831	0.830	0.829	0.374	0.373	0.199
50 %		0.834	0.830	0.829	0.829	0.829	0.373	0.372	0.198
75 %		0.831	0.829	0.829	0.829	0.828	0.372	0.372	0.198
90 %		0.829	0.829	0.828	0.828	0.828	0.372	0.372	0.198
None	R4 Stream 2nd	0.805	0.799	0.797	0.797	0.797	0.357	0.356	0.190
50 %		0.800	0.797	0.797	0.796	0.796	0.356	0.355	0.189
75 %		0.798	0.797	0.796	0.796	0.796	0.355	0.355	0.189
90 %		0.797	0.796	0.796	0.796	0.796	0.355	0.354	0.189

Lettuce 2x - double – 2 × 100 g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 157: FOCUS Step 4 PECsed results for fluopicolide, GAP group name lettuce 2x, assessment name double (DGR II / PMT III)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*0.297*	*0.082*	*0.044*	*0.030*	*0.023*	*0.044*	*0.030*	*0.023*
50 %		*0.153*	*0.043*	*0.023*	*0.016*	*0.012*	*0.023*	*0.016*	*0.012*
75 %		*0.079*	*0.022*	*0.012*	*0.008*	*0.006*	*0.012*	*0.008*	*0.006*
90 %		*0.033*	*0.009*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*
None	D3 Ditch 2nd	*0.233*	*0.064*	*0.035*	*0.024*	*0.018*	*0.035*	*0.024*	*0.018*
50 %		*0.120*	*0.033*	*0.018*	*0.013*	*0.010*	*0.018*	*0.013*	*0.010*
75 %		*0.062*	*0.017*	*0.010*	*0.007*	*0.005*	*0.010*	*0.007*	*0.005*
90 %		*0.026*	*0.008*	*0.004*	*0.004*	*0.004*	*0.004*	*0.004*	*0.004*
None	D4 Pond	*7.29*	*7.27*	*7.25*	*7.24*	*7.23*	*7.25*	*7.24*	*7.23*
50 %		*7.24*	*7.24*	*7.22*	*7.22*	*7.22*	*7.22*	*7.22*	*7.22*
75 %		*7.22*	*7.22*	*7.21*	*7.21*	*7.21*	*7.21*	*7.21*	*7.21*
90 %		*7.21*	*7.20*	*7.20*	*7.20*	*7.20*	*7.20*	*7.20*	*7.20*
None	D4 Stream	*2.69*	*2.69*	*2.69*	*2.69*	*2.69*	*2.69*	*2.69*	*2.69*
50 %		*2.69*	*2.69*	*2.69*	*2.69*	*2.69*	*2.69*	*2.69*	*2.69*
75 %		*2.69*	*2.69*	*2.69*	*2.69*	*2.69*	*2.69*	*2.69*	*2.69*
90 %		*2.69*	*2.69*	*2.69*	*2.69*	*2.69*	*2.69*	*2.69*	*2.69*
None	D6 Ditch	*8.45*	*8.42*	*8.42*	*8.42*	*8.41*	*8.42*	*8.42*	*8.41*
50 %		*8.43*	*8.42*	*8.41*	*8.41*	*8.41*	*8.41*	*8.41*	*8.41*
75 %		*8.42*	*8.41*	*8.41*	*8.41*	*8.41*	*8.41*	*8.41*	*8.41*
90 %		*8.42*	*8.41*	*8.41*	*8.41*	*8.41*	*8.41*	*8.41*	*8.41*
None	R1 Pond	*1.90*	*1.88*	*1.86*	*1.84*	*1.84*	*0.847*	*0.832*	*0.455*
50 %		*1.85*	*1.84*	*1.83*	*1.82*	*1.81*	*0.812*	*0.805*	*0.431*
75 %		*1.82*	*1.82*	*1.81*	*1.81*	*1.80*	*0.795*	*0.791*	*0.419*
90 %		*1.80*	*1.80*	*1.80*	*1.80*	*1.80*	*0.785*	*0.783*	*0.412*
None	R1 Pond 2nd	*1.07*	*1.05*	*1.03*	*1.01*	*1.00*	*0.501*	*0.487*	*0.277*
50 %		*1.02*	*1.01*	*0.995*	*0.988*	*0.984*	*0.466*	*0.459*	*0.252*
75 %		*0.989*	*0.986*	*0.979*	*0.976*	*0.974*	*0.449*	*0.445*	*0.240*
90 %		*0.974*	*0.972*	*0.969*	*0.968*	*0.967*	*0.438*	*0.437*	*0.233*
None	R1 Stream	*1.47*	*1.46*	*1.46*	*1.46*	*1.46*	*0.497*	*0.496*	*0.249*
50 %		*1.46*	*1.46*	*1.46*	*1.46*	*1.46*	*0.496*	*0.496*	*0.248*
75 %		*1.46*	*1.46*	*1.46*	*1.45*	*1.45*	*0.495*	*0.495*	*0.248*
90 %		*1.46*	*1.45*	*1.45*	*1.45*	*1.45*	*0.495*	*0.495*	*0.247*
None	R1 Stream	*0.543*	*0.537*	*0.535*	*0.534*	*0.534*	*0.242*	*0.241*	*0.128*

PEC_{sed} (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %	2nd	*0.538*	*0.535*	*0.534*	*0.534*	*0.533*	*0.241*	*0.241*	*0.127*
75 %		*0.535*	*0.534*	*0.533*	*0.533*	*0.533*	*0.240*	*0.240*	*0.127*
90 %		*0.534*	*0.533*	*0.533*	*0.533*	*0.533*	*0.240*	*0.240*	*0.127*
None	R2 Stream	*1.14*	*1.14*	*1.14*	*1.14*	*1.13*	*0.329*	*0.328*	*0.157*
50 %		*1.14*	*1.14*	*1.13*	*1.13*	*1.13*	*0.328*	*0.327*	*0.156*
75 %		*1.14*	*1.13*	*1.13*	*1.13*	*1.13*	*0.327*	*0.327*	*0.156*
90 %		*1.13*	*1.13*	*1.13*	*1.13*	*1.13*	*0.327*	*0.327*	*0.156*
None	R2 Stream 2nd	*1.08*	*1.08*	*1.08*	*1.08*	*1.08*	*0.318*	*0.317*	*0.152*
50 %		*1.08*	*1.08*	*1.08*	*1.08*	*1.08*	*0.317*	*0.317*	*0.152*
75 %		*1.08*	*1.08*	*1.08*	*1.08*	*1.08*	*0.317*	*0.317*	*0.152*
90 %		*1.08*	*1.08*	*1.08*	*1.08*	*1.08*	*0.316*	*0.316*	*0.152*
None	R3 Stream	*0.834*	*0.810*	*0.803*	*0.801*	*0.800*	*0.368*	*0.366*	*0.196*
50 %		*0.815*	*0.803*	*0.800*	*0.799*	*0.798*	*0.365*	*0.363*	*0.194*
75 %		*0.806*	*0.800*	*0.798*	*0.797*	*0.797*	*0.363*	*0.362*	*0.193*
90 %		*0.800*	*0.798*	*0.797*	*0.797*	*0.797*	*0.362*	*0.361*	*0.193*
None	R3 Stream 2nd	*2.22*	*2.19*	*2.19*	*2.19*	*2.18*	*0.824*	*0.822*	*0.427*
50 %		*2.20*	*2.19*	*2.18*	*2.18*	*2.18*	*0.821*	*0.820*	*0.425*
75 %		*2.19*	*2.18*	*2.18*	*2.18*	*2.18*	*0.819*	*0.819*	*0.424*
90 %		*2.19*	*2.18*	*2.18*	*2.18*	*2.18*	*0.818*	*0.818*	*0.424*
None	R4 Stream	*1.43*	*1.42*	*1.42*	*1.42*	*1.42*	*0.633*	*0.632*	*0.336*
50 %		*1.43*	*1.42*	*1.42*	*1.42*	*1.42*	*0.632*	*0.631*	*0.335*
75 %		*1.42*	*1.42*	*1.42*	*1.42*	*1.42*	*0.631*	*0.631*	*0.335*
90 %		*1.42*	*1.42*	*1.42*	*1.42*	*1.42*	*0.631*	*0.631*	*0.335*
None	R4 Stream 2nd	*1.78*	*1.77*	*1.76*	*1.76*	*1.76*	*0.777*	*0.776*	*0.413*
50 %		*1.77*	*1.76*	*1.76*	*1.76*	*1.76*	*0.776*	*0.775*	*0.412*
75 %		*1.76*	*1.76*	*1.76*	*1.76*	*1.76*	*0.775*	*0.774*	*0.412*
90 %		*1.76*	*1.76*	*1.76*	*1.76*	*1.76*	*0.774*	*0.774*	*0.412*

* Maximum values coming from multiple applications are marked in italics

Metabolite M-03 (AE 0608000)

Lettuce - early – 100 g a.s./ha (DGR I / PMT I)

Table 9.2.5- 158: FOCUS Step 4 PECsed results for M-03 (AE 0608000), GAP group name lettuce, assessment name early (DGR I / PMT I)

PEC_{sed} (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
50 %		0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
75 %		0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
90 %		0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
None	D3 Ditch 2nd	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
50 %		0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
75 %		0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
90 %		0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
None	D4 Pond	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
50 %		0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
75 %		0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
90 %		0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
None	D4 Stream	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112
50 %		0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112
75 %		0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112
90 %		0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112
None	D6 Ditch	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139
50 %		0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139
75 %		0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139
90 %		0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139
None	R1 Pond	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
50 %		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
75 %		<0.001	<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	R1 Pond 2nd	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
50 %		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
75 %		<0.001	<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	R1 Stream	0.003	0.003	0.003	0.003	0.003	0.002	0.002	<0.001
50 %		0.003	0.003	0.003	0.003	0.003	0.002	0.002	<0.001
75 %		0.003	0.003	0.003	0.003	0.003	0.002	0.002	<0.001
90 %		0.003	0.003	0.003	0.003	0.003	0.002	0.002	<0.001

PEC_{sed} (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	R1 Stream 2nd	0.007	0.007	0.007	0.007	0.007	0.003	0.003	0.002
50 %		0.007	0.007	0.007	0.007	0.007	0.003	0.003	0.002
75 %		0.007	0.007	0.007	0.007	0.007	0.003	0.003	0.002
90 %		0.007	0.007	0.007	0.007	0.007	0.003	0.003	0.002
None	R2 Stream	0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.001
50 %		0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.001
75 %		0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.001
90 %		0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.001
None	R2 Stream 2nd	0.015	0.015	0.015	0.015	0.015	0.007	0.007	0.003
50 %		0.015	0.015	0.015	0.015	0.015	0.007	0.007	0.003
75 %		0.015	0.015	0.015	0.015	0.015	0.007	0.007	0.003
90 %		0.015	0.015	0.015	0.015	0.015	0.007	0.007	0.003
None	R3 Stream	0.008	0.008	0.008	0.008	0.008	0.004	0.004	0.002
50 %		0.008	0.008	0.008	0.008	0.008	0.004	0.004	0.002
75 %		0.008	0.008	0.008	0.008	0.008	0.004	0.004	0.002
90 %		0.008	0.008	0.008	0.008	0.008	0.004	0.004	0.002
None	R3 Stream 2nd	0.017	0.017	0.017	0.017	0.017	0.008	0.008	0.004
50 %		0.017	0.017	0.017	0.017	0.017	0.008	0.008	0.004
75 %		0.017	0.017	0.017	0.017	0.017	0.008	0.008	0.004
90 %		0.017	0.017	0.017	0.017	0.017	0.008	0.008	0.004
None	R4 Stream	0.004	0.004	0.004	0.004	0.004	0.002	0.002	<0.001
50 %		0.004	0.004	0.004	0.004	0.004	0.002	0.002	<0.001
75 %		0.004	0.004	0.004	0.004	0.004	0.002	0.002	<0.001
90 %		0.004	0.004	0.004	0.004	0.004	0.002	0.002	<0.001
None	R4 Stream 2nd	0.009	0.009	0.009	0.009	0.009	0.004	0.004	0.002
50 %		0.009	0.009	0.009	0.009	0.009	0.004	0.004	0.002
75 %		0.009	0.009	0.009	0.009	0.009	0.004	0.004	0.002
90 %		0.009	0.009	0.009	0.009	0.009	0.004	0.004	0.002

Lettuce - late – 100 g a.s./ha (DGR I / PMT II)

Table 9.2.5- 159: FOCUS Step 4 PECsed results for M-03 (AE 0608000), GAP group name lettuce, assessment name late (DGR I / PMT II)

PECsed (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
50 %		0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
75 %		0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
90 %		0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
None	D3 Ditch 2nd	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
50 %		0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
75 %		0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
90 %		0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
None	D4 Pond	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041
50 %		0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041
75 %		0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041
90 %		0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041
None	D4 Stream	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079
50 %		0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079
75 %		0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079
90 %		0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079
None	D6 Ditch	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136
50 %		0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136
75 %		0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136
90 %		0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136
None	R1 Pond	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
50 %		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
75 %		<0.001	<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	R1 Pond 2nd	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
50 %		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
75 %		<0.001	<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	R1 Stream	0.003	0.003	0.003	0.003	0.003	0.002	0.002	<0.001
50 %		0.003	0.003	0.003	0.003	0.003	0.002	0.002	<0.001
75 %		0.003	0.003	0.003	0.003	0.003	0.002	0.002	<0.001
90 %		0.003	0.003	0.003	0.003	0.003	0.002	0.002	<0.001
None	R1 Stream	0.002	0.002	0.002	0.002	0.002	0.001	0.001	<0.001

PEC_{sed} (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %	2nd	0.002	0.002	0.002	0.002	0.002	0.001	0.001	<0.001
75 %		0.002	0.002	0.002	0.002	0.002	0.001	0.001	<0.001
90 %		0.002	0.002	0.002	0.002	0.002	0.001	0.001	<0.001
None	R2 Stream	0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.001
50 %		0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.001
75 %		0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.001
90 %		0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.001
None	R2 Stream 2nd	0.004	0.004	0.004	0.004	0.004	0.002	0.002	<0.001
50 %		0.004	0.004	0.004	0.004	0.004	0.002	0.002	<0.001
75 %		0.004	0.004	0.004	0.004	0.004	0.002	0.002	<0.001
90 %		0.004	0.004	0.004	0.004	0.004	0.002	0.002	<0.001
None	R3 Stream	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.001
50 %		0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.001
75 %		0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.001
90 %		0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.001
None	R3 Stream 2nd	0.012	0.012	0.012	0.012	0.012	0.005	0.005	0.003
50 %		0.012	0.012	0.012	0.012	0.012	0.005	0.005	0.003
75 %		0.012	0.012	0.012	0.012	0.012	0.005	0.005	0.003
90 %		0.012	0.012	0.012	0.012	0.012	0.005	0.005	0.003
None	R4 Stream	0.004	0.004	0.004	0.004	0.004	0.002	0.002	<0.001
50 %		0.004	0.004	0.004	0.004	0.004	0.002	0.002	<0.001
75 %		0.004	0.004	0.004	0.004	0.004	0.002	0.002	<0.001
90 %		0.004	0.004	0.004	0.004	0.004	0.002	0.002	<0.001
None	R4 Stream 2nd	0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.002
50 %		0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.002
75 %		0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.002
90 %		0.006	0.006	0.006	0.006	0.006	0.003	0.003	0.002

Lettuce 2x - double – 2 × 100 g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 160: FOCUS Step 4 PECsed results for M-03 (AE 0608000), GAP group name lettuce 2x, assessment name double (DGR II / PMT III)

PECsed (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*
50 %		*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*
75 %		*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*
90 %		*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*
None	D3 Ditch 2nd	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*
50 %		*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*
75 %		*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*
90 %		*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*	*0.019*
None	D4 Pond	*0.081*	*0.081*	*0.081*	*0.081*	*0.081*	*0.081*	*0.081*	*0.081*
50 %		*0.081*	*0.081*	*0.081*	*0.081*	*0.081*	*0.081*	*0.081*	*0.081*
75 %		*0.081*	*0.081*	*0.081*	*0.081*	*0.081*	*0.081*	*0.081*	*0.081*
90 %		*0.081*	*0.081*	*0.081*	*0.081*	*0.081*	*0.081*	*0.081*	*0.081*
None	D4 Stream	*0.154*	*0.154*	*0.154*	*0.154*	*0.154*	*0.154*	*0.154*	*0.154*
50 %		*0.154*	*0.154*	*0.154*	*0.154*	*0.154*	*0.154*	*0.154*	*0.154*
75 %		*0.154*	*0.154*	*0.154*	*0.154*	*0.154*	*0.154*	*0.154*	*0.154*
90 %		*0.154*	*0.154*	*0.154*	*0.154*	*0.154*	*0.154*	*0.154*	*0.154*
None	D6 Ditch	*0.310*	*0.310*	*0.310*	*0.310*	*0.310*	*0.310*	*0.310*	*0.310*
50 %		*0.310*	*0.310*	*0.310*	*0.310*	*0.310*	*0.310*	*0.310*	*0.310*
75 %		*0.310*	*0.310*	*0.310*	*0.310*	*0.310*	*0.310*	*0.310*	*0.310*
90 %		*0.310*	*0.310*	*0.310*	*0.310*	*0.310*	*0.310*	*0.310*	*0.310*
None	R1 Pond	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*<0.001*	*<0.001*	*<0.001*
50 %		*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*<0.001*	*<0.001*	*<0.001*
75 %		*0.001*	*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	R1 Pond 2nd	*0.002*	*0.002*	*0.002*	*0.002*	*0.002*	*<0.001*	*<0.001*	*<0.001*
50 %		*0.002*	*0.002*	*0.002*	*0.002*	*0.002*	*<0.001*	*<0.001*	*<0.001*
75 %		*0.002*	*0.002*	*0.002*	*0.002*	*0.002*	*<0.001*	*<0.001*	*<0.001*
90 %		*0.002*	*0.002*	*0.002*	*0.002*	*0.002*	*<0.001*	*<0.001*	*<0.001*
None	R1 Stream	*0.009*	*0.009*	*0.009*	*0.009*	*0.009*	*0.004*	*0.004*	*0.002*
50 %		*0.009*	*0.009*	*0.009*	*0.009*	*0.009*	*0.004*	*0.004*	*0.002*
75 %		*0.009*	*0.009*	*0.009*	*0.009*	*0.009*	*0.004*	*0.004*	*0.002*
90 %		*0.009*	*0.009*	*0.009*	*0.009*	*0.009*	*0.004*	*0.004*	*0.002*
None	R1 Stream	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.002*	*0.002*	*0.001*

PECsed (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %	2nd	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.002*	*0.002*	*0.001*
75 %		*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.002*	*0.002*	*0.001*
90 %		*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.002*	*0.002*	*0.001*
None	R2 Stream	*0.015*	*0.015*	*0.015*	*0.015*	*0.015*	*0.006*	*0.006*	*0.003*
50 %		*0.015*	*0.015*	*0.015*	*0.015*	*0.015*	*0.006*	*0.006*	*0.003*
75 %		*0.015*	*0.015*	*0.015*	*0.015*	*0.015*	*0.006*	*0.006*	*0.003*
90 %		*0.015*	*0.015*	*0.015*	*0.015*	*0.015*	*0.006*	*0.006*	*0.003*
None	R2 Stream 2nd	*0.006*	*0.006*	*0.006*	*0.006*	*0.006*	*0.003*	*0.003*	*0.002*
50 %		*0.006*	*0.006*	*0.006*	*0.006*	*0.006*	*0.003*	*0.003*	*0.002*
75 %		*0.006*	*0.006*	*0.006*	*0.006*	*0.006*	*0.003*	*0.003*	*0.002*
90 %		*0.006*	*0.006*	*0.006*	*0.006*	*0.006*	*0.003*	*0.003*	*0.002*
None	R3 Stream	*0.015*	*0.015*	*0.015*	*0.015*	*0.015*	*0.006*	*0.006*	*0.003*
50 %		*0.015*	*0.015*	*0.015*	*0.015*	*0.015*	*0.006*	*0.006*	*0.003*
75 %		*0.015*	*0.015*	*0.015*	*0.015*	*0.015*	*0.006*	*0.006*	*0.003*
90 %		*0.015*	*0.015*	*0.015*	*0.015*	*0.015*	*0.006*	*0.006*	*0.003*
None	R3 Stream 2nd	*0.015*	*0.015*	*0.015*	*0.015*	*0.015*	*0.007*	*0.007*	*0.004*
50 %		*0.015*	*0.015*	*0.015*	*0.015*	*0.015*	*0.007*	*0.007*	*0.004*
75 %		*0.015*	*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*	*0.004*
None	R4 Stream	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.002*	*0.002*	*0.001*
50 %		*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.002*	*0.002*	*0.001*
75 %		*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.002*	*0.002*	*0.001*
90 %		*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.002*	*0.002*	*0.001*
None	R4 Stream 2nd	*0.009*	*0.009*	*0.009*	*0.009*	*0.009*	*0.004*	*0.004*	*0.002*
50 %		*0.009*	*0.009*	*0.009*	*0.009*	*0.009*	*0.004*	*0.004*	*0.002*
75 %		*0.009*	*0.009*	*0.009*	*0.009*	*0.009*	*0.004*	*0.004*	*0.002*
90 %		*0.009*	*0.009*	*0.009*	*0.009*	*0.009*	*0.004*	*0.004*	*0.002*

* Maximum values coming from multiple applications are marked in italics

III. Conclusion

Predicted environmental concentrations of the fungicide fluopicolide and its metabolites in surface water (PECsw) and sediment (PECsed) were calculated for the use in lettuce in Europe, employing the tiered FOCUS Surface Water (SW) approach (FOCUS 2001, 2015). All relevant entry routes of a compound into surface water (principally a combination of spray drift and runoff/erosion or drain flow) were considered.

Assessment and conclusion by applicant:

The risk assessment report was conducted according to FOCUS (2001,2015) and is considered valid to assess predicted environmental concentrations in surface water (PEC_{SW}) and sediment (PECsed) for fluopicolide and its metabolites in lettuce.

Data Point:	KCP 9.2.5/06
Report Author:	[redacted]
Report Year:	2020
Report Title:	Fluopicolide (FLC) and metabolites: PECsw,sed FOCUS EUR - Use in cucumbers in greenhouses in Europe
Report No:	EnSa-20-0480
Document No:	M-687156-01-1
Guideline(s) followed in study:	not applicable
Deviations from current test guideline:	None
Previous evaluation:	No, not previously submitted
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

Executive Summary

Predicted environmental concentrations of the fungicide fluopicolide and metabolites in surface water (PECsw) and sediment (PECsed) were calculated for the use in Europe, employing the tiered FOCUS Surface Water (SW) approach (FOCUS 2001, 2015). All relevant entry routes of a compound into surface water (principally a combination of spray drift and runoff/erosion or drain flow) were considered in these calculations.

The uses of fluopicolide in greenhouse cucumbers were assessed according to the Good Agricultural Practice (GAP) in Europe.

I. Materials and Methods

Predicted environmental concentrations of the fungicide fluopicolide and its metabolites in surface water (PECsw) and sediment (PECsed) were calculated for the use in Europe, employing the tiered FOCUS Surface Water (SW) approach (FOCUS 2001, 2015). All relevant entry routes of a compound into surface water (principally a combination of spray drift and runoff/erosion or drain flow) were considered in these calculations.

The uses of fluopicolide in relevant crops were assessed according to the Good Agricultural Practice (GAP) in Europe. Intended GAPs for the use of fluopicolide in Europe were analysed and consolidated according to regulatory and modelling requirements. As a result, one or more uses may be covered by a single modelling GAP row (DGR). The translation of the regulatory GAP for modelling purposes is shown in Table 9.2.5-161.

Table 9.2.5-161: GAP translation for modelling purposes

GAP group ID	GAP group name (DGR) and use IDs	Covered crop(s)	Growth stage	Max. apps	Interval (days)	Rate (kg a.s./ha)
DGR I	cucumber	cucumber	BBCH 21 - 89	3	7	3 × 0.1

The implementation of the modelling GAP (Table 9.2.5-161) at Steps 1-2 level is shown in Table 9.2.5-162. One or more calculations (modelling tasks, PMT) are necessary to fully cover the use assessed. The number and name of the respective DGR is provided for easier reference.

Table 9.2.5- 162: FOCUS Steps 1-2 specific data for the GAPs assessed

Run IDs (DGR / PMT)	GAP group name (DGR)	Assessment name (PMT)	FOCUS crop (crop group)	Season	Crop cover
DGR I PMT I	cucumber	early	vegetables, fruiting (arable crops)	spring (Mar. - May)	full canopy
DGR I PMT II	cucumber	mid	vegetables, fruiting (arable crops)	summer (Jun. - Sep.)	full canopy
DGR I PMT III	cucumber	late	vegetables, fruiting (arable crops)	autumn (Oct. - Feb.)	full canopy

This section provides the implementation of the modelling GAP (Table 9.2.5-161) at Step 3 level. Also, here one or more calculations (modelling tasks, PMT) are necessary to fully cover the use assessed. The number and name of the respective DGR is provided for easier reference.

Please note that PMTs at Steps 1-2 and Step 3 do not necessarily fully correspond to each other due to inherent differences in the models.

The application dates for this assessment were set with the help of the tool AppDate (Klein 2018), which proposes dates for specific crop stages (given as BBCH code) based on the crop development as defined in the FOCUS model scenarios for groundwater and surface water.

The summary of all Step 3 PMTs is provided in Table 9.2.5- 163. The detailed information on individual uses is given in tables Table 9.2.5- 164 to Table 9.2.5- 169.

Table 9.2.5- 163: Overview of FOCUS Step 3 assessments

Run IDs (DGR / PMT)	GAP group name (DGR)	Assessment name (PMT)	FOCUS crop (crop group)
DGR I PMT I	Cucumber	Early	Vegetables, fruiting (arable crops)
DGR I PMT II	Cucumber	Mid	Vegetables, fruiting (arable crops)
DGR I PMT III	Cucumber	Late	Vegetables, fruiting (arable crops)

GAP group name cucumber, assessment name early

Table 9.2.5- 164: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Early	D6 Ditch R2 Stream R3 Stream R4 Stream	01-Mar - 14-Apr 01-Mar - 14-Apr 01-Mar - 14-Apr 01-Mar - 14-Apr

Table 9.2.5- 165: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR I / PMT I Cucumber Early
FOCUS model crop (crop group)	Vegetables, fruiting (arable crops)
Use pattern	3×0.1 kg a.s./ha, 7d int.
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	44 days for all scenarios (min = 44 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D6 Ditch	01-Mar/14-Apr (60/104)	05-Mar 14-Mar 03-Apr	R2 Stream	01-Mar/14-Apr (60/104)	01-Mar 21-Mar 30-Mar
			R3 Stream	01-Mar/14-Apr (60/104)	01-Mar 10-Mar 28-Mar
			R4 Stream	01-Mar/14-Apr (60/104)	05-Mar 12-Mar 21-Mar

<u>GAP group name cucumber, assessment name mid</u>

Table 9.2.5- 166: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Mid	D6 Ditch R2 Stream R3 Stream R4 Stream	01-Jul - 14-Aug 01-Jul - 14-Aug 01-Jul - 14-Aug 01-Jul - 14-Aug

Table 9.2.5- 167: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR I / PMT II Cucumber Mid
FOCUS model crop (crop group)	Vegetables, fruiting (arable crops)
Use pattern	3×0.1 kg a.s./ha, 7d int.
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	44 days for all scenarios (min = 44 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D6 Ditch	01-Jul/14-Aug (182/226)	06-Jul 17-Jul 27-Jul	R2 Stream	01-Jul/14-Aug (182/226)	31-Jul 07-Aug 14-Aug
			R3 Stream	01-Jul/14-Aug (182/226)	11-Jul 18-Jul 30-Jul
			R4 Stream	01-Jul/14-Aug (182/226)	01-Jul 25-Jul 01-Aug

GAP group name cucumber, assessment name late

Table 9.2.5- 168: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Late	D6 Ditch R2 Stream R3 Stream R4 Stream	01-Nov - 15-Dec 01-Nov - 15-Dec 01-Nov - 15-Dec 01-Nov - 15-Dec

Table 9.2.5- 169: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR I / PMT III Cucumber Late
FOCUS model crop (crop group)	Vegetables, fruiting (arable crops)
Use pattern	3×0.1 kg a.s./ha, 7d int.
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	44 days for all scenarios (min = 44 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D6 Ditch	01-Nov/15-Dec (305/349)	01-Nov 06-Dec 13-Dec	R2 Stream	01-Nov/15-Dec (305/349)	08-Nov 15-Nov 23-Nov
			R3 Stream	01-Nov/15-Dec (305/349)	15-Nov 22-Nov 05-Dec
			R4 Stream	01-Nov/15-Dec (305/349)	03-Nov 10-Nov 10-Dec

Steps 1-2 calculations were performed according to formulas implemented in FOCUS STEPS 1+2 version 3.2.

Step 3 calculations were performed using the FOCUS SWASH 5.3 suite, including
FOCUS PRZM 4.3.1
FOCUS MACRO 5.5.4
FOCUS TOXSWA 5.5.3

Refinement at Step 4 level was performed with the SWAN tool, version 5.0.1.

Standard procedures and settings were used for Steps 1-2 and 3 assessments. At Step 4 the following mitigation settings were used Table 9.2.5- 170 and Table 9.2.5- 171.

Table 9.2.5- 170: Mitigation approaches used

Buffer length	Mitigation type	Drift reduction nozzles
0 m 5 m 10 m 15 m 20 m	Spray drift Spray drift Spray drift & RunOff Spray drift & RunOff Spray drift & RunOff	0 %, 50 %, 75 %, 90 %

Table 9.2.5- 171: Runoff mitigation parameters used for the assessment

Fractional reduction in:	10 m, 15 m	20 m
Runoff: Volume	0.60	0.80
Flux	0.60	0.80
Erosion: Mass	0.85	0.95
Flux	0.85	0.95

Substance related parameters which have been used for fluopicolide and its metabolites M-01 (AE C653711), M-02 (AE C657188) and M-03 (AE 0608000) and whose derivation is described in detail in the core modelling document KCP 9.2.5/04 have been used in the calculations at FOCUS SW Steps 1-2 level are summarised in Table 9.2.5- 172 and at Step 3/4 level in Table 9.2.5- 173.

Table 9.2.5- 172: Substance parameters used at FOCUS Steps 1-2 level

Parameter	Unit	Fluopicolide	M-01 (AE C653711)	M-02 (AE C657188)	M-03 (AE 0608000)
Molar mass	(g/mol)	383.59	190.03	225.56	399.58
Water solubility	(mg/L)	2.8	1830	9721	10
Koc	(mL/g)	267.7	24.1	5.7	106.9
Degradation					
Soil	(days)	182	146	1.6	17.9
Total system	(days)	1000	1000	1000	1.9
Water	(days)	1000	1000	1000	1.9
Sediment	(days)	1000	1000	1000	1000
Max occurrence					
Water / sediment	(%)	100	20.3	8.2	0.001
Soil	(%)	100	48	16.4	10.6

Table 9.2.5- 173: Substance parameters used for fluopicolide and its metabolite M-03 (AE 0608000) at Step 3/4 level

Parameter	Unit	Parent	Metabolite
Substance		Fluopicolide	M-03 (AE 0608000)
SWASH code		FLC	M03
General			
Molar mass	(g/mol)	383.59	399.58
Water solubility (temp.)	(mg/L)	2.8 (20 °C)	10 (20 °C)
Vapour pressure (temp.)	(Pa)	3.03E-07 (20 °C)	0 (20 °C)
Crop processes			
Coefficient for uptake by plant (TSCF)	(-)	0.5	0
Wash-off factor	(1/m)	50	50
Sorption			
K_{OC}	(mL/g)	267.74	106.89
K_{OM}	(mL/g)	155.3	62
Freundlich exponent ($^1/_n$)	(-)	0.888	0.971
Transformation			
DT50 in soil	(days)	182	17.9
temperature	(°C)	20	20
moisture content (pF)	(log(cm))	2	2
formation fraction in soil	(-)	-	0.53
DT50 in water	(days)	1000	1.9
temperature	(°C)	20	20
formation fraction in water	(-)	-	-
DT50 in sediment	(days)	1000	1000
temperature	(°C)	20	20
formation fraction in sediment	(-)	-	-
DT50 on canopy	(days)	10	10
Exponent for the effect of moisture			
PRZM and TOXSWA (Walker exp.)	(-)	0.7	0.7
MACRO (calibrated value)	(-)	0.49	0.49
Effect of temperature			
TOXSWA (molar activation energy)	(kJ/mol)	65.4	65.4
MACRO (effect of temperature)	(1/K)	0.0948	0.0948
PRZM (Q_{10})	(-)	2.58	2.58

II. Results and Discussion

The PEC values were calculated for fluopicolide and its metabolites M-01 (AE C653711), M-02 (AE C657188) and M-03 (AE 0608000) according to the equations implemented in the "STEPS 1-2 in FOCUS" calculator Table 9.2.5- 174 to Table 9.2.5- 185.

Parent substance fluopicolide

Cucumber - early – 3 × 100g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 174: FOCUS Steps 1-2 PECsw and PECsed for fluopicolide, GAP group name cucumber, assessment name early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	76.5	RunOff	75.6	203
Step 2					
Northern Europe	Mar. - May(Spring)	5.86	RunOff	5.72	15.3
Southern Europe	Mar. - May(Spring)	10.1	RunOff	9.95	26.7

* Single applications are marked.
** TWA interval as required by ecotox

Cucumber - mid – 3 × 100g a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 175: FOCUS Steps 1-2 PECsw and PECsed for fluopicolide, GAP group name cucumber, assessment name mid (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	76.5	RunOff	75.6	203
Step 2					
Northern Europe	Jun. - Sep.(Summer)	5.86	RunOff	5.72	15.3
Southern Europe	Jun. - Sep.(Summer)	7.98	RunOff	7.83	21.0

* Single applications are marked.
** TWA interval as required by ecotox

Cucumber - late – 3 × 100g a.s./ha, 7d int. (DGR I / PMT III)

Table 9.2.5- 176: FOCUS Steps 1-2 PECsw and PECsed for fluopicolide, GAP group name cucumber, assessment name late (DGR I / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	76.5	RunOff	75.6	203
Step 2					
Northern Europe	Oct. - Feb.(Autumn)	12.2	RunOff	12.1	32.3
Southern Europe	Oct. - Feb.(Autumn)	10.1	RunOff	9.95	26.7

* Single applications are marked.
** TWA interval as required by ecotox

Metabolite M-01 (AE C653711)

Cucumber - early – 3 × 100g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 177: FOCUS Steps 1-2 PECsw and PECsed for M-01 (AE C653711), GAP group name cucumber, assessment name early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	33.1	-	33.0	7.96
Step 2					
Northern Europe	Mar. - May(Spring)	2.07	-	2.06	0.498
Southern Europe	Mar. - May(Spring)	3.94	-	3.93	0.949

* Single applications are marked.
** TWA interval as required by ecotox

Cucumber - mid – 3 × 100g a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 178: FOCUS Steps 1-2 PECsw and PECsed for M-01 (AE C653711), GAP group name cucumber, assessment name mid (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	33.1	-	33.0	7.96
Step 2					
Northern Europe	Jun. - Sep.(Summer)	2.07	-	2.06	0.498
Southern Europe	Jun. - Sep.(Summer)	3.01	-	3.00	0.724

* Single applications are marked.
** TWA interval as required by ecotox

Cucumber - late – 3 × 100g a.s./ha, 7d int. (DGR I / PMT III)

Table 9.2.5- 179: FOCUS Steps 1-2 PECsw and PECsed for M-01 (AE C653711), GAP group name cucumber, assessment name late (DGR I / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	33.1	-	33.0	7.96
Step 2					
Northern Europe	Oct. - Feb.(Autumn)	4.88	-	4.87	1.18
Southern Europe	Oct. - Feb.(Autumn)	3.94	-	3.93	0.949

* Single applications are marked.
** TWA interval as required by ecotox

Metabolite M-02 (AE C657188)

Cucumber - early – 3 × 100g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 180: FOCUS Steps 1-2 PECsw and PECsed for M-02 (AE C657188), GAP group name cucumber, assessment name early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	14.5	-	14.5	0.825
Step 2					
Northern Europe	Mar. - May(Spring)	0.407	-	0.406	0.023
Southern Europe	Mar. - May(Spring)	0.718	-	0.716	0.041

* Single applications are marked.
** TWA interval as required by ecotox

Cucumber - mid – 3 × 100g a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 181: FOCUS Steps 1-2 PECsw and PECsed for M-02 (AE C657188), GAP group name cucumber, assessment name mid (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	14.5	-	14.5	0.825
Step 2					
Northern Europe	Jun. - Sep.(Summer)	0.407	-	0.406	0.023
Southern Europe	Jun. - Sep.(Summer)	0.563	-	0.561	0.032

* Single applications are marked.
** TWA interval as required by ecotox

Cucumber - late – 3 × 100g a.s./ha, 7d int. (DGR I / PMT III)

Table 9.2.5- 182: FOCUS Steps 1-2 PECsw and PECsed for M-02 (AE C657188), GAP group name cucumber, assessment name late (DGR I / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	14.5	-	14.5	0.825
Step 2					
Northern Europe	Oct. - Feb.(Autumn)	0.874	-	0.871	0.050
Southern Europe	Oct. - Feb.(Autumn)	0.718	-	0.716	0.041

* Single applications are marked.
** TWA interval as required by ecotox

Metabolite M-03 (AE 0608000)

Cucumber - early – 3 × 100g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 183: FOCUS Steps 1-2 PECsw and PECsed for M-03 (AE 0608000), GAP group name cucumber, assessment name early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	3.22	-	1.17	3.44
Step 2					
Northern Europe	Mar. - May(Spring)	0.388	-	0.152	0.415
Southern Europe	Mar. - May(Spring)	0.776	-	0.305	0.830

* Single applications are marked.
** TWA interval as required by ecotox

Cucumber - mid – 3 × 100g a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 184: FOCUS Steps 1-2 PECsw and PECsed for M-03 (AE 0608000), GAP group name cucumber, assessment name mid (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	3.22	-	1.17	3.44
Step 2					
Northern Europe	Jun. - Sep.(Summer)	0.388	-	0.152	0.415
Southern Europe	Jun. - Sep.(Summer)	0.582	-	0.229	0.622

* Single applications are marked.
** TWA interval as required by ecotox

Cucumber - late – 3 × 100g a.s./ha, 7d int. (DGR I / PMT III)

Table 9.2.5- 185: FOCUS Steps 1-2 PECsw and PECsed for M-03 (AE 0608000), GAP group name cucumber, assessment name late (DGR I / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	3.22	-	1.17	3.44
Step 2					
Northern Europe	Oct. - Feb.(Autumn)	0.970	-	0.381	1.04
Southern Europe	Oct. - Feb.(Autumn)	0.776	-	0.305	0.830

* Single applications are marked.
** TWA interval as required by ecotox

Step 3 calculations were conducted for fluopicolide and its metabolite M-03 (AE 0608000) employing the models of the FOCUS SW suite. Reported values represent loadings *via* all relevant entry routes are shown in Table 9.2.5- 186 to Table 9.2.5- 191.

Parent substance fluopicolide

Cucumber - early – 3 × 100 g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 186: FOCUS Step 3 PECsw and PECsed for fluopicolide, GAP group name cucumber, assessment name early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D6	Ditch	1.54	Spray drift	0.845	2.36
R2	Stream	2.10	RunOff	0.503	3.90
R3	Stream	5.37	RunOff	0.604	2.67
R4	Stream	8.33	RunOff	0.689	1.95

* Single applications are marked.
** TWA interval as required by ecotox

Cucumber - mid – 3 × 100 g a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 187: FOCUS Step 3 PECsw and PECsed for fluopicolide, GAP group name cucumber, assessment name mid (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D6	Ditch	4.75	Drainage	2.48	4.28
R2	Stream	1.14	Spray drift	0.306	1.91
R3	Stream	3.06	RunOff	0.638	2.45
R4	Stream	7.85	RunOff	0.710	2.74

* Single applications are marked.
** TWA interval as required by ecotox

Cucumber - late – 3 × 100 g a.s./ha, 7d int. (DGR I / PMT III)

Table 9.2.5- 188: FOCUS Step 3 PECsw and PECsed for fluopicolide, GAP group name cucumber, assessment name late (DGR I / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D6	Ditch	10.2	Drainage	5.73	12.1
R2	Stream	2.39	RunOff	0.773	5.90
R3	Stream	6.01	RunOff	1.29	9.81
R4	Stream	9.06	RunOff	0.808	2.65

* Single applications are marked.
** TWA interval as required by ecotox

Metabolite M-03 (AE 0608000)

Cucumber - early – 3 × 100 g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 189: FOCUS Step 3 PECsw and PECsed for M-03 (AE 0608000), GAP group name cucumber, assessment name early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D6	Ditch	0.169	-	0.114	0.249
R2	Stream	0.047	-	0.008	0.014
R3	Stream	0.067	-	0.009	0.021
R4	Stream	0.069	-	0.006	0.011

* Single applications are marked.
** TWA interval as required by ecotox

Cucumber - mid – 3 × 100 g a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 190: FOCUS Step 3 PECsw and PECsed for M-03 (AE 0608000), GAP group name cucumber, assessment name mid (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D6	Ditch	0.324	-	0.162	0.306
R2	Stream	0.124	-	0.026	0.035
R3	Stream	0.093	-	0.018	0.029
R4	Stream	0.241	-	0.025	0.047

* Single applications are marked.
** TWA interval as required by ecotox

Cucumber - late – 3 × 100 g a.s./ha, 7d int. (DGR I / PMT III)

Table 9.2.5- 191: FOCUS Step 3 PECsw and PECsed for M-03 (AE 0608000), GAP group name cucumber, assessment name late (DGR I / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D6	Ditch	0.367	-	0.243	0.579
R2	Stream	0.045	-	0.012	0.016
R3	Stream	0.047	-	0.006	0.013
R4	Stream	0.099	-	0.010	0.019

* Single applications are marked.
** TWA interval as required by ecotox

FOCUS Step 4 calculations considering various mitigation measures for runoff and spray drift were conducted based on the Step 3 results. This section provides the summary of results in tabular form. Where applicable, the maximum of single and multiple application uses are shown Table 9.2.5- 192 to Table 9.2.5- 203.

Parent substance fluopicolide

Cucumber - early – 3 × 100 g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 192: FOCUS Step 4 PECsw results for fluopicolide, GAP group name cucumber, assessment name early (DGR I / PMT I)

PEC_{sw} (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
None	D6 Ditch	*1.54*							
90 %		*1.54*							
95 %		*1.54*							
99 %		*1.54*							
None	R2 Stream	*2.10*							
90 %		*2.10*							
95 %		*2.10*							
99 %		*2.10*							
None	R3 Stream	*5.37*							
90 %		*5.37*							
95 %		*5.37*							
99 %		*5.37*							
None	R4 Stream	*8.33*							
90 %		*8.33*							
95 %		*8.33*							
99 %		*8.33*							

* Maximum values coming from multiple applications are marked in italics

Cucumber - mid – 3 × 100 g a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 193: FOCUS Step 4 PECsw results for fluopicolide, GAP group name cucumber, assessment name mid (DGR I / PMT II)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
None	D6 Ditch	*4.75*							
90 %		*4.75*							
95 %		*4.75*							
99 %		*4.75*							
None	R2 Stream	*1.14*							
90 %		*1.14*							
95 %		*1.14*							
99 %		*1.14*							
None	R3 Stream	*3.06*							
90 %		*3.06*							
95 %		*3.06*							
99 %		*3.06*							
None	R4 Stream	*7.85*							
90 %		*7.85*							
95 %		*7.85*							
99 %		*7.85*							

* Maximum values coming from multiple applications are marked in italics

Cucumber - late – 3 × 100 g a.s./ha, 7d int. (DGR I / PMT III)

Table 9.2.5- 194: FOCUS Step 4 PECsw results for fluopicolide, GAP group name cucumber, assessment name late (DGR I / PMT III)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
None	D6 Ditch	*10.2*							
90 %		*10.2*							
95 %		*10.2*							
99 %		*10.2*							
None	R2 Stream	*2.39*							
90 %		*2.39*							
95 %		*2.39*							

PEC$_{sw}$ (µg/L)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
99 %		*2.39*							
None	R3 Stream	*6.01*							
90 %		*6.01*							
95 %		*6.01*							
99 %		*6.01*							
None	R4 Stream	*9.06*							
90 %		*9.06*							
95 %		*9.06*							
99 %		*9.06*							

* Maximum values coming from multiple applications are marked in italics

Metabolite M-03 (AE 0608000)

Cucumber - early – 3 × 100 g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 195: FOCUS Step 4 PECsw results for M-03 (AE 0608000), GAP group name cucumber, assessment name early (DGR I / PMT I)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
None	D6 Ditch	*0.169*							
90 %		*0.169*							
95 %		*0.169*							
99 %		*0.169*							
None	R2 Stream	*0.047*							
90 %		*0.047*							
95 %		*0.047*							
99 %		*0.047*							
None	R3 Stream	*0.067*							
90 %		*0.067*							
95 %		*0.067*							
99 %		*0.067*							
None	R4 Stream	*0.069*							
90 %		*0.069*							
95 %		*0.069*							
99 %		*0.069*							

* Maximum values coming from multiple applications are marked in italics

Cucumber - mid – 3 × 100 g a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 196: FOCUS Step 4 PECsw results for M-03 (AE 0608000), GAP group name cucumber, assessment name mid (DGR I / PMT II)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
None	D6 Ditch	*0.324*							
90 %		*0.324*							
95 %		*0.324*							
99 %		*0.324*							
None	R2 Stream	*0.124*							
90 %		*0.124*							
95 %		*0.124*							
99 %		*0.124*							
None	R3 Stream	*0.093*							
90 %		*0.093*							
95 %		*0.093*							
99 %		*0.093*							
None	R4 Stream	*0.241*							
90 %		*0.241*							
95 %		*0.241*							
99 %		*0.241*							

* Maximum values coming from multiple applications are marked in italics

Cucumber - late – 3 × 100 g a.s./ha, 7d int. (DGR I / PMT III)

Table 9.2.5- 197: FOCUS Step 4 PECsw results for M-03 (AE 0608000), GAP group name cucumber, assessment name late (DGR I / PMT III)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
None	D6 Ditch	*0.367*							
90 %		*0.367*							
95 %		*0.367*							
99 %		*0.367*							
None	R2 Stream	*0.045*							
90 %		*0.045*							
95 %		*0.045*							

PEC$_{sw}$ (µg/L)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
99 %		*0.045*							
None	R3 Stream	*0.047*							
90 %		*0.047*							
95 %		*0.047*							
99 %		*0.047*							
None	R4 Stream	*0.099*							
90 %		*0.099*							
95 %		*0.099*							
99 %		*0.099*							

* Maximum values coming from multiple applications are marked in italics

FOCUS Step 4 PECsed

Parent substance fluopicolide

Cucumber - early – 3 × 100 g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 198: FOCUS Step 4 PECsed results for fluopicolide, GAP group name cucumber, assessment name early (DGR I / PMT I)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
None	D6 Ditch	2.36							
90 %		*2.34*							
95 %		*2.34*							
99 %		*2.34*							
None	R2 Stream	*3.90*							
90 %		*3.90*							
95 %		*3.90*							
99 %		*3.90*							
None	R3 Stream	*2.67*							
90 %		*2.65*							
95 %		*2.65*							
99 %		*2.65*							
None	R4 Stream	*1.95*							
90 %		*1.93*							
95 %		*1.93*							

PECsed (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
99 %		*1.93*							

* Maximum values coming from multiple applications are marked in italics

<u>Cucumber - mid – 3 × 100 g a.s./ha, 7d int. (DGR I / PMT II)</u>

Table 9.2.5- 199: FOCUS Step 4 PECsed results for fluopicolide, GAP group name cucumber, assessment name mid (DGR I / PMT II)

PECsed (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
None	D6 Ditch	*4.28*							
90 %		*4.27*							
95 %		*4.27*							
99 %		*4.27*							
None	R2 Stream	*1.91*							
90 %		*1.90*							
95 %		*1.90*							
99 %		*1.90*							
None	R3 Stream	*2.45*							
90 %		*2.42*							
95 %		*2.42*							
99 %		*2.41*							
None	R4 Stream	*2.74*							
90 %		*2.72*							
95 %		*2.72*							
99 %		*2.72*							

* Maximum values coming from multiple applications are marked in italics

Cucumber - late – 3 × 100 g a.s./ha, 7d int. (DGR I / PMT III)

Table 9.2.5- 200: FOCUS Step 4 PECsed results for fluopicolide, GAP group name cucumber, assessment name late (DGR I / PMT III)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 fluopicolide							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
None	D6 Ditch	*12.1*							
90 %		*11.8*							
95 %		*11.8*							
99 %		*11.8*							
None	R2 Stream	*5.90*							
90 %		*5.89*							
95 %		*5.89*							
99 %		*5.89*							
None	R3 Stream	*9.81*							
90 %		*9.79*							
95 %		*9.79*							
99 %		*9.79*							
None	R4 Stream	*2.65*							
90 %		*2.64*							
95 %		*2.64*							
99 %		*2.64*							

* Maximum values coming from multiple applications are marked in italics

Metabolite M-03 (AE 0608000)

Cucumber - early – 3 × 100 g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 201: FOCUS Step 4 PECsed results for M-03 (AE 0608000), GAP group name cucumber, assessment name early (DGR I / PMT I)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
None	D6 Ditch	*0.249*							
90 %		*0.249*							
95 %		*0.249*							
99 %		*0.249*							
None	R2 Stream	*0.014*							
90 %		*0.014*							

PEC_{sed} (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
95 %		*0.014*							
99 %		*0.014*							
None	R3 Stream	*0.021*							
90 %		*0.021*							
95 %		*0.021*							
99 %		*0.021*							
None	R4 Stream	*0.011*							
90 %		*0.011*							
95 %		*0.011*							
99 %		*0.011*							

* Maximum values coming from multiple applications are marked in italics

Cucumber - mid – 3 × 100 g a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 202: FOCUS Step 4 PECsed results for M-03 (AE 0608000), GAP group name cucumber, assessment name mid (DGR I / PMT II)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
None	D6 Ditch	*0.306*							
90 %		*0.306*							
95 %		*0.306*							
99 %		*0.306*							
None	R2 Stream	*0.035*							
90 %		*0.035*							
95 %		*0.035*							
99 %		*0.035*							
None	R3 Stream	*0.029*							
90 %		*0.029*							
95 %		*0.029*							
99 %		*0.029*							
None	R4 Stream	*0.047*							
90 %		*0.047*							
95 %		*0.047*							
99 %		*0.047*							

* Maximum values coming from multiple applications are marked in italics

Cucumber - late – 3 × 100 g a.s./ha, 7d int. (DGR I / PMT III)

Table 9.2.5- 203: FOCUS Step 4 PECsed results for M-03 (AE 0608000), GAP group name cucumber, assessment name late (DGR I / PMT III)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
None	D6 Ditch	*0.579*							
90 %		*0.579*							
95 %		*0.579*							
99 %		*0.579*							
None	R2 Stream	*0.016*							
90 %		*0.016*							
95 %		*0.016*							

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 M-03 (AE 0608000)							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
99 %		*0.016*							
None	R3 Stream	*0.013*							
90 %		*0.013*							
95 %		*0.013*							
99 %		*0.013*							
None	R4 Stream	*0.019*							
90 %		*0.019*							
95 %		*0.019*							
99 %		*0.019*							

* Maximum values coming from multiple applications are marked in italics

III. Conclusion

Predicted environmental concentrations of the fungicide fluopicolide and its metabolites in surface water (PECsw) and sediment (PECsed) were calculated for the use in greenhouse cucumbers in Europe, employing the tiered FOCUS Surface Water (SW) approach (FOCUS 2001, 2015). All relevant entry routes of a compound into surface water (principally a combination of spray drift and runoff/erosion or drain flow) were considered.

<u>Assessment and conclusion by applicant:</u>

The risk assessment report was conducted according to FOCUS (2001,2015) and is considered valid to assess predicted environmental concentrations in surface water (PEC$_{SW}$) and sediment (PECsed) for fluopicolide and its metabolites in cucumber.

PEC$_{sw}$ for propamocarb-hydrochloride

Data Point:	KCP 9.2.5/07
Report Author:	[redacted]
Report Year:	2020
Report Title:	Propamocarb-hydrochloride (PCH): PECsw,sed FOCUS EUR - Use in potatoes in Europe
Report No:	EnSa-20-0402
Document No:	M-687163-01-1
Guideline(s) followed in study:	not applicable
Deviations from current test guideline:	None
Previous evaluation:	No, not previously submitted
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

Executive Summary

Predicted environmental concentrations of the fungicide propamocarb-hydrochloride in surface water (PECsw) and sediment (PECsed) were calculated for the use in potatoes in Europe, employing the tiered FOCUS Surface Water (SW) approach (FOCUS 2001, 2015). All relevant entry routes of a compound into surface water (principally a combination of spray drift and runoff/erosion or drain flow) were considered in these calculations.

The uses of propamocarb-hydrochloride in relevant crops were assessed according to the Good Agricultural Practice (GAP) in Europe.

I. Materials and Methods

Intended GAPs for the use of f propamocarb-hydrochloride in Europe were analysed and consolidated according to regulatory and modelling requirements. As a result, one or more uses may be covered by a single modelling GAP row (DGR). The translation of the regulatory GAP for modelling purposes is shown in Table 9.2.5-204.

Table 9.2.5-204: GAP translation for modelling purposes

GAP group ID	GAP group name (DGR) and use IDs	Covered crop(s)	Growth stage	Max. apps	Interval (days)	Rate (kg a.s./ha)
DGR I	potatoes 4X	potatoes	BBCH 21 - 89	4	7	4 × 1
DGR II	potatoes 3X	potatoes	BBCH 21 - 89	3	7	3 × 1
DGR III	potatoes 2X	potatoes	BBCH 21 - 89	2	7	2 × 1
DGR IV	potatoes 1X	potatoes	BBCH 21 - 89	1	-	1 × 1

The implementation of the modelling GAP (Table 9.2.5-204) at Steps 1-2 level is shown in Table 9.2.5-205. One or more calculations (modelling tasks, PMT) are necessary to fully cover the use assessed. The number and name of the respective DGR is provided for easier reference.

Table 9.2.5- 205: FOCUS Steps 1-2 specific data for the GAPs assessed

Run IDs (DGR / PMT)	GAP group name (DGR)	Assessment name (PMT)	FOCUS crop (crop group)	Season	Crop cover
DGR I PMT I	potatoes 4X	Early	potatoes (arable crops)	spring (Mar. - May)	average crop cover
DGR I PMT II	potatoes 4X	Late	potatoes (arable crops)	summer (Jun. - Sep.)	full canopy
DGR II PMT III	potatoes 3X	Early	potatoes (arable crops)	spring (Mar. - May)	average crop cover
DGR II PMT IV	potatoes 3X	Late	potatoes (arable crops)	summer (Jun. - Sep.)	full canopy
DGR III PMT V	potatoes 2X	Early	potatoes (arable crops)	spring (Mar. - May)	average crop cover
DGR III PMT VI	potatoes 2X	Late	potatoes (arable crops)	summer (Jun. - Sep.)	full canopy
DGR IV PMT VII	potatoes 1X	Early	potatoes (arable crops)	spring (Mar. - May)	average crop cover
DGR IV PMT VIII	potatoes 1X	Late	potatoes (arable crops)	summer (Jun. - Sep.)	full canopy

This section provides the implementation of the modelling GAP (Table 9.2.5-204) at Step 3 level. Also, here one or more calculations (modelling tasks, PMT) are necessary to fully cover the use assessed. The number and name of the respective DGR is provided for easier reference.

Please note that PMTs at Steps 1-2 and Step 3 do not necessarily fully correspond to each other due to inherent differences in the models.

The application dates for this assessment were set with the help of the tool AppDate (Klein 2018), which proposes dates for specific crop stages (given as BBCH code) based on the crop development as defined in the FOCUS model scenarios for groundwater and surface water.

The summary of all Step 3 PMTs is provided in Table 9.2.5- 206. The detailed information on individual uses is given in subsections that follow Table 9.2.5- 207 to Table 9.2.5- 224.

Table 9.2.5- 206: Overview of FOCUS Step 3 assessments

Run IDs (DGR / PMT)	GAP group name (DGR)	Assessment name (PMT)	FOCUS crop (crop group)
DGR I PMT I	Potatoes 4X	Early	Potatoes (arable crops)
DGR I PMT II	Potatoes 4X	Late	Potatoes (arable crops)
DGR II PMT III	Potatoes 3X	Early	Potatoes (arable crops)
DGR II PMT IV	Potatoes 3X	Late	Potatoes (arable crops)
DGR III PMT V	Potatoes 2X	Early	Potatoes (arable crops)
DGR III PMT VI	Potatoes 2X	Late	Potatoes (arable crops)
DGR IV PMT VII	Potatoes 1X	Early	Potatoes (arable crops)
DGR IV PMT VIII	Potatoes 1X	Late	Potatoes (arable crops)

GAP group name potatoes 4X, assessment name Early

Table 9.2.5- 207: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Early	D3 Ditch D4 Pond/Stream D6 Ditch D6 Ditch (2nd) R1 Pond/Stream R2 Stream R3 Stream	30-May - 20-Jul 17-Jun - 07-Aug 24-Apr - 14-Jun 21-Aug - 11-Oct 20-May - 10-Jul 06-Apr - 27-May 24-Apr - 14-Jun

Table 9.2.5- 208: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR 1 / PMT 1 Potatoes 4X Early
FOCUS model crop (crop group)	Potatoes (arable crops)
Use pattern	4×1.0 kg a.s./ha, 7d int.
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	51 days for all scenarios (min = 51 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	30-May/20-Jul (150/201)	14-Jun 26-Jun 08-Jul 15-Jul	R1 Pond/Stream	20-May/10-Jul (140/191)	31-May 12-Jun 24-Jun 04-Jul
D4 Pond/Stream	17-Jun/07-Aug (168/219)	21-Jun 28-Jun 05-Jul 18-Jul	R2 Stream	06-Apr/27-May (96/147)	22-Apr 29-Apr 07-May 20-May
D6 Ditch	24-Apr/14-Jun (114/165)	24-Apr 03-May 17-May 24-May	R3 Stream	24-Apr/14-Jun (114/165)	24-Apr 18-May 01-Jun 11-Jun
D6 Ditch (2nd)	21-Aug/11-Oct (233/284)	23-Aug 04-Sep 13-Sep 21-Sep			

GAP group name potatoes 4X, assessment name Late

Table 9.2.5- 209: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Late	D3 Ditch D4 Pond/Stream D6 Ditch D6 Ditch (2nd) R1 Pond/Stream R2 Stream R3 Stream	24-Jul - 13-Sep 02-Aug - 22-Sep 23-May - 13-Jul 03-Oct - 23-Nov 17-Jul - 06-Sep 24-Apr - 14-Jun 09-Jul - 29-Aug

Table 9.2.5- 210: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR I / PMT II Potatoes 4X Late
FOCUS model crop (crop group)	Potatoes (arable crops)
Use pattern	4×1.0 kg a.s./ha, 7d int.
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	51 days for all scenarios (min = 51 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	24-Jul/13-Sep (205/256)	24-Jul 03-Aug 18-Aug 26-Aug	R1 Pond/Stream	17-Jul/06-Sep (198/249)	22-Jul 29-Jul 20-Aug 02-Sep
D4 Pond/Stream	02-Aug/22-Sep (214/265)	27-Aug 04-Sep 11-Sep 18-Sep	R2 Stream	24-Apr/14-Jun (114/165)	24-Apr 07-May 20-May 27-May
D6 Ditch	23-May/13-Jul (143/194)	24-May 04-Jun 23-Jun 05-Jul	R3 Stream	09-Jul/29-Aug (190/241)	13-Jul 20-Jul 27-Jul 04-Aug
D6 Ditch (2nd)	03-Oct/23-Nov (276/327)	05-Oct 14-Oct 22-Oct 31-Oct			

GAP group name potatoes 3X, assessment name Early

Table 9.2.5- 211: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Early	D3 Ditch D4 Pond/Stream D6 Ditch D6 Ditch (2nd) R1 Pond/Stream R2 Stream R3 Stream	30-May - 20-Jul 17-Jun - 07-Aug 24-Apr - 14-Jun 21-Aug - 11-Oct 20-May - 10-Jul 06-Apr - 27-May 24-Apr - 14-Jun

Table 9.2.5- 212: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR II / PMT III Potatoes 3X Early
FOCUS model crop (crop group)	Potatoes (arable crops)
Use pattern	3×1.0 kg a.s./ha, 7d int.
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	51 days for all scenarios (min = 44 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	30-May/20-Jul (150/201)	14-Jun 26-Jun 08-Jul	R1 Pond/Stream	20-May/10-Jul (140/191)	31-May 12-Jun 24-Jun
D4 Pond/Stream	17-Jun/07-Aug (168/219)	21-Jun 28-Jun 05-Jul	R2 Stream	06-Apr/27-May (96/147)	22-Apr 29-Apr 07-May
D6 Ditch	24-Apr/14-Jun (114/165)	24-Apr 03-May 17-May	R3 Stream	24-Apr/14-Jun (114/165)	24-Apr 18-May 01-Jun
D6 Ditch (2nd)	21-Aug/11-Oct (233/284)	23-Aug 04-Sep 13-Sep			

GAP group name potatoes 3X, assessment name Late

Table 9.2.5- 213: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Late	D3 Ditch D4 Pond/Stream	24-Jul - 13-Sep 02-Aug - 22-Sep

Assessment name	Scenario	Application window used in modelling
	D6 Ditch D6 Ditch (2nd) R1 Pond/Stream R2 Stream R3 Stream	23-May - 13-Jul 03-Oct - 23-Nov 17-Jul - 06-Sep 24-Apr - 14-Jun 09-Jul - 29-Aug

Table 9.2.5- 214: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR II / PMT IV Potatoes 3X Late
FOCUS model crop (crop group)	Potatoes (arable crops)
Use pattern	3×1.0 kg a.s./ha, 7d int.
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	51 days for all scenarios (min = 44 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	24-Jul/13-Sep (205/256)	24-Jul 03-Aug 18-Aug	R1 Pond/Stream	17-Jul/06-Sep (198/249)	22-Jul 29-Jul 20-Aug
D4 Pond/Stream	02-Aug/22-Sep (214/265)	27-Aug 10-Sep 18-Sep	R2 Stream	24-Apr/14-Jun (114/165)	24-Apr 07-May 20-May
D6 Ditch	23-May/13-Jul (143/194)	24-May 04-Jun 23-Jun	R3 Stream	09-Jul/29-Aug (190/241)	13-Jul 20-Jul 27-Jul
D6 Ditch (2nd)	03-Oct/23-Nov (276/327)	05-Oct 14-Oct 22-Oct			

<u>**GAP group name potatoes 2X, assessment name Early**</u>

Table 9.2.5- 215: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Early	D3 Ditch D4 Pond/Stream D6 Ditch D6 Ditch (2nd) R1 Pond/Stream R2 Stream R3 Stream	30-May - 20-Jul 17-Jun - 07-Aug 24-Apr - 14-Jun 21-Aug - 11-Oct 20-May - 10-Jul 06-Apr - 27-May 24-Apr - 14-Jun

Table 9.2.5- 216: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR III / PMT V Potatoes 2X Early
FOCUS model crop (crop group)	Potatoes (arable crops)
Use pattern	2×1.0 kg a.s./ha, 7d int.
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	51 days for all scenarios (min = 37 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	30-May/20-Jul (150/201)	14-Jun 26-Jun	R1 Pond/Stream	20-May/10-Jul (140/191)	13-Jun 05-Jul
D4 Pond/Stream	17-Jun/07-Aug (168/219)	21-Jun 28-Jun	R2 Stream	06-Apr/27-May (96/147)	22-Apr 29-Apr
D6 Ditch	24-Apr/14-Jun (114/165)	24-Apr 03-May	R3 Stream	24-Apr/14-Jun (114/165)	24-Apr 18-May
D6 Ditch (2nd)	21-Aug/11-Oct (233/284)	23-Aug 04-Sep			

<u>**GAP group name potatoes 2X, assessment name Late**</u>

Table 9.2.5- 217: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Late	D3 Ditch D4 Pond/Stream D6 Ditch D6 Ditch (2nd) R1 Pond/Stream R2 Stream R3 Stream	24-Jul - 13-Sep 02-Aug - 22-Sep 23-May - 13-Jul 03-Oct - 23-Nov 17-Jul - 06-Sep 24-Apr - 14-Jun 09-Jul - 29-Aug

Table 9.2.5- 218: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR III / PMT VI Potatoes 2X Late
FOCUS model crop (crop group)	Potatoes (arable crops)
Use pattern	2×1.0 kg a.s./ha, 7d int.
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	51 days for all scenarios (min = 37 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	24-Jul/13-Sep (205/256)	24-Jul 03-Aug	R1 Pond/Stream	17-Jul/06-Sep (198/249)	28-Jul 20-Aug
D4 Pond/Stream	02-Aug/22-Sep (214/265)	27-Aug 10-Sep	R2 Stream	24-Apr/14-Jun (114/165)	24-Apr 07-May
D6 Ditch	23-May/13-Jul (143/194)	24-May 04-Jun	R3 Stream	09-Jul/29-Aug (190/241)	13-Jul 20-Jul
D6 Ditch (2nd)	03-Oct/23-Nov (276/327)	05-Oct 14-Oct			

<u>GAP group name potatoes 1X, assessment name Early</u>

Table 9.2.5- 219: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Early	D3 Ditch D4 Pond/Stream D6 Ditch D6 Ditch (2nd) R1 Pond/Stream R2 Stream R3 Stream	30-May - 20-Jul 17-Jun - 07-Aug 24-Apr - 14-Jun 21-Aug - 11-Oct 20-May - 10-Jul 06-Apr - 27-May 24-Apr - 14-Jun

Table 9.2.5- 220: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR IV / PMT VII Potatoes 1X Early
FOCUS model crop (crop group)	Potatoes (arable crops)
Use pattern	1 kg a.s./ha
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	51 days for all scenarios (min = 30 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	30-May/20-Jul (150/201)	14-Jun	R1 Pond/Stream	20-May/10-Jul (140/191)	13-Jun
D4 Pond/Stream	17-Jun/07-Aug (168/219)	21-Jun	R2 Stream	06-Apr/27-May (96/147)	22-Apr
D6 Ditch	24-Apr/14-Jun (114/165)	24-Apr	R3 Stream	24-Apr/14-Jun (114/165)	24-Apr
D6 Ditch (2nd)	21-Aug/11-Oct (233/284)	23-Aug			

GAP group name potatoes 1X, assessment name Late

Table 9.2.5- 221: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Late	D3 Ditch D4 Pond/Stream D6 Ditch D6 Ditch (2nd) R1 Pond/Stream R2 Stream R3 Stream	24-Jul - 13-Sep 02-Aug - 22-Sep 23-May - 13-Jul 03-Oct - 23-Nov 17-Jul - 06-Sep 24-Apr - 14-Jun 09-Jul - 29-Aug

Table 9.2.5- 222: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR IV / PMT VIII Potatoes 1X Late
FOCUS model crop (crop group)	Potatoes (arable crops)
Use pattern	1 kg a.s./ha
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	51 days for all scenarios (min = 30 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	24-Jul/13-Sep (205/256)	24-Jul	R1 Pond/Stream	17-Jul/06-Sep (198/249)	28-Jul
D4 Pond/Stream	02-Aug/22-Sep (214/265)	27-Aug	R2 Stream	24-Apr/14-Jun (114/165)	24-Apr
D6 Ditch	23-May/13-Jul (143/194)	24-May	R3 Stream	09-Jul/29-Aug (190/241)	13-Jul
D6 Ditch (2nd)	03-Oct/23-Nov (276/327)	05-Oct			

Steps 1-2 calculations were performed according to formulas implemented in FOCUS STEPS 1+2 version 3.2.

Step 3 calculations were performed using the FOCUS SWASH 5.3 suite, including
FOCUS PRZM 4.3.1
FOCUS MACRO 5.5.4
FOCUS TOXSWA 5.5.3

Refinement at Step 4 level was performed with the SWAN tool, version 5.0.1.

Standard procedures and settings were used for Steps 1-2 and 3 assessments. At Step 4 the following mitigation settings were used Table 9.2.5- 223 and Table 9.2.5- 224.

Table 9.2.5- 223: Mitigation approaches used

Buffer length	Mitigation type	Drift reduction nozzles
0 m 5 m 10 m 15 m 20 m	Spray drift Spray drift Spray drift & RunOff Spray drift & RunOff Spray drift & RunOff	0 %, 50 %, 75 %, 90 %

Table 9.2.5- 224: Runoff mitigation parameters used for the assessment

Fractional reduction in:	10 m, 15 m	20 m
Runoff: Volume	0.60	0.80
Flux	0.60	0.80
Erosion: Mass	0.85	0.95
Flux	0.85	0.95

Substance related parameters which have been used as input in the calculations are based on parameters whose derivation is taken from the EFSA LoEP [EFSA Scientific Report 87, 12 May 2006]. Calculations at FOCUS SW Steps 1-2 level are summarised in Table 9.2.5- 225 and at Step 3/4 level in Table 9.2.5- 226.

Table 9.2.5- 225: Substance parameters used at FOCUS Steps 1-2 level

Parameter	Unit	Propamocarb-hydrochloride PCH
Molar mass	(g/mol)	224.7
Water solubility	(mg/L)	100500
Koc	(mL/g)	263.6
Degradation		
Soil	(days)	13.91
Total system	(days)	18.3
Water	(days)	18.3
Sediment	(days)	1000
Max occurrence		
Water / sediment	(%)	100
Soil	(%)	100

Table 9.2.5- 226: Substance parameters used for propamocarb-hydrochloride at Step 3/4 level

Parameter	Unit	Parent
Substance SWASH code		Propamocarb-hydrochloride PCH
General		
Molar mass	(g/mol)	224.7
Water solubility (temp.)	(mg/L)	100500 (20 °C)
Vapour pressure (temp.)	(Pa)	8.1E-05 (25 °C)
Crop processes		
Coefficient for uptake by plant (TSCF)	(-)	0
Wash-off factor	(1/m)	50
Sorption		
K_{OC}	(mL/g)	263.6
K_{OM}	(mL/g)	152.9
Freundlich exponent ($^1/_n$)	(-)	0.867
Transformation		
DT50 in soil	(days)	13.91
temperature	(°C)	20
moisture content (pF)	(log(cm))	2
formation fraction in soil	(-)	-
DT50 in water	(days)	18.3
temperature	(°C)	20
formation fraction in water	(-)	-
DT50 in sediment	(days)	1000

Parameter	Unit	Parent
temperature formation fraction in sediment DT50 on canopy	(°C) (-) (days)	20 - 10
Exponent for the effect of moisture PRZM and TOXSWA (Walker exp.) MACRO (calibrated value)	 (-) (-)	 0.7 0.49
Effect of temperature TOXSWA (molar activation energy) MACRO (effect of temperature) PRZM (Q_{10})	 (kJ/mol) (1/K) (-)	 65.4 0.0948 2.58

II. Results and Discussion

The PEC values were calculated for propamocarb-hydrochloride according to the equations implemented in the "STEPS 1-2 in FOCUS" calculator Table 9.2.5- 227 to Table 9.2.5- 234.

Potatoes 4X - Early – 4 × 1000g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 227: FOCUS Steps 1-2 PECsw and PECsed for propamocarb-hydrochloride, GAP group name potatoes 4X, assessment name Early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	1023	RunOff	891	2601
Step 2					
Northern Europe	Mar. - May(Spring)	64.8	RunOff	57.4	168
Southern Europe	Mar. - May(Spring)	116	RunOff	104	304

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 4X - Late – 4 × 1000g a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 228: FOCUS Steps 1-2 PECsw and PECsed for propamocarb-hydrochloride, GAP group name potatoes 4X, assessment name Late (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	1023	RunOff	891	2601
Step 2					
Northern Europe	Jun. - Sep.(Summer)	44.1	RunOff	38.8	113
Southern Europe	Jun. - Sep.(Summer)	59.6	RunOff	52.8	154

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 3X - Early – 3 × 1000g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 229: FOCUS Steps 1-2 PECsw and PECsed for propamocarb-hydrochloride, GAP group name potatoes 3X, assessment name Early (DGR II / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	768	RunOff	668	1951
Step 2					
Northern Europe	Mar. - May(Spring)	56.3	RunOff	49.9	146
Southern Europe	Mar. - May(Spring)	101	RunOff	89.9	263

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 3X - Late – 3 × 1000g a.s./ha, 7d int. (DGR II / PMT IV)

Table 9.2.5- 230: FOCUS Steps 1-2 PECsw and PECsed for propamocarb-hydrochloride, GAP group name potatoes 3X, assessment name Late (DGR II / PMT IV)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	768	RunOff	668	1951
Step 2					
Northern Europe	Jun. - Sep.(Summer)	38.5	RunOff	33.9	98.9
Southern Europe	Jun. - Sep.(Summer)	51.8	RunOff	45.9	134

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 2X - Early – 2 × 1000g a.s./ha, 7d int. (DGR III / PMT V)

Table 9.2.5- 231: FOCUS Steps 1-2 PECsw and PECsed for propamocarb-hydrochloride, GAP group name potatoes 2X, assessment name Early (DGR III / PMT V)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	512	RunOff	446	1300
Step 2					
Northern Europe	Mar. - May(Spring)	44.9	RunOff	39.7	116
Southern Europe	Mar. - May(Spring)	79.4	RunOff	70.7	207

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 2X - Late – 2 × 1000g a.s./ha, 7d int. (DGR III / PMT VI)

Table 9.2.5- 232: FOCUS Steps 1-2 PECsw and PECsed for propamocarb-hydrochloride, GAP group name potatoes 2X, assessment name Late (DGR III / PMT VI)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	512	RunOff	446	1300
Step 2					
Northern Europe	Jun. - Sep.(Summer)	31.1	RunOff	27.3	79.8
Southern Europe	Jun. - Sep.(Summer)	41.4	RunOff	36.6	107

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 1X - Early – 1 × 1000g a.s./ha (DGR IV / PMT VII)

Table 9.2.5- 233: FOCUS Steps 1-2 PECsw and PECsed for propamocarb-hydrochloride, GAP group name potatoes 1X, assessment name Early (DGR IV / PMT VII)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	256	RunOff	223	650
Step 2					
Northern Europe	Mar. - May(Spring)	26.7 *	RunOff	23.6	69.1 *
Southern Europe	Mar. - May(Spring)	46.9 *	RunOff	41.8	122 *

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 1X - Late – 1 × 1000g a.s./ha (DGR IV / PMT VIII)

Table 9.2.5- 234: FOCUS Steps 1-2 PECsw and PECsed for propamocarb-hydrochloride, GAP group name potatoes 1X, assessment name Late (DGR IV / PMT VIII)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	256	RunOff	223	650
Step 2					
Northern Europe	Jun. - Sep.(Summer)	18.7 *	RunOff	16.4	47.8 *
Southern Europe	Jun. - Sep.(Summer)	24.7 *	RunOff	21.8	63.8 *

* Single applications are marked.
** TWA interval as required by ecotox

Step 3 calculations were conducted for propamocarb-hydrochloride employing the models of the FOCUS SW suite. Reported values represent loadings *via* all relevant entry routes are shown in Table 9.2.5- 235 to Table 9.2.5- 242.

Potatoes 4X - Early – 4 × 1.0 kg a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 235: FOCUS Step 3 PECsw and PECsed for propamocarb-hydrochloride, GAP group name potatoes 4X, assessment name Early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*		Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3						
D3	Ditch	5.24	*	Spray drift	0.770	2.24
D4	Pond	0.626		Spray drift	0.620	2.86
D4	Stream	4.10	*	Spray drift	0.557	1.52
D6	Ditch	5.18	*	Spray drift	0.360	1.46
D6	Ditch 2nd	8.56		Spray drift	3.52	4.97
R1	Pond	1.73		RunOff	1.60	3.64
R1	Stream	24.1		RunOff	2.94	10.7
R2	Stream	16.8		RunOff	1.53	8.01
R3	Stream	30.2		Spray drift	4.07	15.0

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 4X - Late – 4 × 1.0 kg a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 236: FOCUS Step 3 PECsw and PECsed for propamocarb-hydrochloride, GAP group name potatoes 4X, assessment name Late (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*		Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*	
Step 3							
D3	Ditch	5.24	*	Spray drift	0.813	2.44	
D4	Pond	5.70		Drainage	5.65	18.1	
D4	Stream	7.03		Spray drift	5.71	10.1	
D6	Ditch	5.21	*	Spray drift	0.514	1.40	*
D6	Ditch 2nd	107		Drainage	44.2	57.1	
R1	Pond	0.295		Spray drift	0.272	1.79	
R1	Stream	13.8		Spray drift	1.32	3.21	
R2	Stream	12.9		RunOff	1.99	11.7	
R3	Stream	24.6		RunOff	3.17	19.4	

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 3X - Early – 3 × 1.0 kg a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 237: FOCUS Step 3 PECsw and PECsed for propamocarb-hydrochloride, GAP group name potatoes 3X, assessment name Early (DGR II / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*		Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*	
Step 3							
D3	Ditch	5.24	*	Spray drift	0.770	2.07	
D4	Pond	0.365		Spray drift	0.352	1.77	
D4	Stream	4.10	*	Spray drift	0.308	0.890	
D6	Ditch	5.18	*	Spray drift	0.390	1.41	
D6	Ditch 2nd	5.14	*	Spray drift	1.63	2.41	
R1	Pond	1.74		RunOff	1.61	3.44	
R1	Stream	24.1		RunOff	2.95	10.7	
R2	Stream	16.8		RunOff	1.54	7.13	
R3	Stream	23.0		Spray drift	2.92	7.27	

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 3X - Late – 3 × 1.0 kg a.s./ha, 7d int. (DGR II / PMT IV)

Table 9.2.5- 238: FOCUS Step 3 PECsw and PECsed for propamocarb-hydrochloride, GAP group name potatoes 3X, assessment name Late (DGR II / PMT IV)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*		Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*	
Step 3							
D3	Ditch	5.24	*	Spray drift	0.813	2.24	
D4	Pond	4.13		Drainage	4.08	13.2	
D4	Stream	5.00		Spray drift	4.05	7.31	
D6	Ditch	5.21	*	Spray drift	0.449	1.40	*
D6	Ditch 2nd	107		Drainage	42.0	49.2	
R1	Pond	0.264		Spray drift	0.230	1.00	
R1	Stream	5.52		Spray drift	0.530	1.35	
R2	Stream	11.0		RunOff	1.09	6.76	
R3	Stream	23.2		RunOff	3.08	16.1	

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 2X - Early – 2 × 1.0 kg a.s./ha, 7d int. (DGR III / PMT V)

Table 9.2.5- 239: FOCUS Step 3 PECsw and PECsed for propamocarb-hydrochloride, GAP group name potatoes 2X, assessment name Early (DGR III / PMT V)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	5.24 *	Spray drift	0.770	2.12
D4	Pond	0.313	Spray drift	0.274	1.09
D4	Stream	4.10 *	Spray drift	0.170	0.506
D6	Ditch	5.18 *	Spray drift	0.342	1.17 *
D6	Ditch 2nd	5.14 *	Spray drift	0.683	1.12
R1	Pond	1.10 *	RunOff	0.963	2.29
R1	Stream	14.6 *	RunOff	1.74	6.96 *
R2	Stream	13.8	RunOff	1.02	4.41
R3	Stream	23.0	Spray drift	2.92	7.32

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 2X - Late – 2 × 1.0 kg a.s./ha, 7d int. (DGR III / PMT VI)

Table 9.2.5- 240: FOCUS Step 3 PECsw and PECsed for propamocarb-hydrochloride, GAP group name potatoes 2X, assessment name Late (DGR III / PMT VI)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	5.24 *	Spray drift	0.813	2.28
D4	Pond	2.51	Drainage	2.48	8.45
D4	Stream	3.95 *	Spray drift	2.34	4.67
D6	Ditch	5.21 *	Spray drift	0.449	1.49
D6	Ditch 2nd	49.9	Drainage	19.0	24.1
R1	Pond	0.245	Spray drift	0.212	0.875
R1	Stream	4.79	Spray drift	0.463	1.18
R2	Stream	11.0	RunOff	1.04	4.69
R3	Stream	22.5	RunOff	3.11	13.2

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 1X - Early - 1 kg a.s./ha (DGR IV / PMT VII)

Table 9.2.5- 241: FOCUS Step 3 PECsw and PECsed for propamocarb-hydrochloride, GAP group name potatoes 1X, assessment name Early (DGR IV / PMT VII)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	5.24 *	Spray drift	0.770	1.92 *
D4	Pond	0.214 *	Spray drift	0.186	0.516 *
D4	Stream	4.10 *	Spray drift	0.064	0.212 *
D6	Ditch	5.18 *	Spray drift	0.342	1.17 *
D6	Ditch 2nd	5.14 *	Spray drift	0.222	0.864 *
R1	Pond	1.10 *	RunOff	0.963	2.04 *
R1	Stream	14.6 *	RunOff	1.74	6.96 *
R2	Stream	5.46 *	RunOff	0.386	1.87 *
R3	Stream	5.12 *	Spray drift	0.403	1.48 *

* Single applications are marked.
** TWA interval as required by ecotox

Potatoes 1X - Late - 1 kg a.s./ha (DGR IV / PMT VIII)

Table 9.2.5- 242: FOCUS Step 3 PECsw and PECsed for propamocarb-hydrochloride, GAP group name potatoes 1X, assessment name Late (DGR IV / PMT VIII)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	5.24 *	Spray drift	0.813	1.97 *
D4	Pond	0.823 *	Drainage	0.814	3.12 *
D4	Stream	3.95 *	Spray drift	0.664	1.68 *
D6	Ditch	5.21 *	Spray drift	0.449	1.40 *
D6	Ditch 2nd	16.3 *	Drainage	6.40	8.55 *
R1	Pond	0.212 *	Spray drift	0.180	0.399 *
R1	Stream	3.60 *	Spray drift	0.106	0.380 *
R2	Stream	5.91 *	RunOff	0.418	2.02 *
R3	Stream	13.7 *	RunOff	2.02	7.03 *

* Single applications are marked.
** TWA interval as required by ecotox

FOCUS Step 4 calculations considering various mitigation measures for runoff and spray drift were conducted based on the Step 3 results. This section provides the summary of results in tabular form. Where applicable, the maximum of single and multiple application uses are shown in Table 9.2.5- 243 to Table 9.2.5- 258.

Potatoes 4X - Early – 4 × 1.0 kg a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 243: FOCUS Step 4 PECsw results for propamocarb-hydrochloride, GAP group name potatoes 4X, assessment name Early (DGR I / PMT I)

PEC_{sw} (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	5.24	1.72	0.911	0.622	0.473	0.911	0.622	0.473
50 %		2.62	0.859	0.455	0.311	0.237	0.455	0.311	0.237
75 %		1.31	0.429	0.228	0.156	0.118	0.228	0.156	0.118
90 %		0.524	0.172	0.091	0.062	0.047	0.091	0.062	0.047
None	D4 Pond	0.626	0.625	0.623	0.622	0.621	0.623	0.622	0.621
50 %		0.622	0.621	0.620	0.619	0.619	0.620	0.619	0.619
75 %		0.619	0.619	0.618	0.618	0.618	0.618	0.618	0.618
90 %		0.618	0.618	0.618	0.617	0.617	0.618	0.617	0.617
None	D4 Stream	4.10	1.73	0.917	0.701	0.701	0.917	0.701	0.701
50 %		2.05	0.864	0.701	0.701	0.701	0.701	0.701	0.701
75 %		1.03	0.701	0.701	0.701	0.701	0.701	0.701	0.701
90 %		0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701
None	D6 Ditch	5.18	1.70	0.902	0.617	0.470	0.902	0.617	0.470
50 %		2.59	0.851	0.452	0.309	0.235	0.452	0.309	0.235
75 %		1.30	0.426	0.227	0.155	0.118	0.227	0.155	0.118
90 %		0.520	0.171	0.092	0.063	0.048	0.092	0.063	0.048
None	D6 Ditch 2nd	8.56	8.56	8.56	8.56	8.56	8.56	8.56	8.56
50 %		8.56	8.56	8.56	8.56	8.56	8.56	8.56	8.56
75 %		8.56	8.56	8.56	8.56	8.56	8.56	8.56	8.56
90 %		8.56	8.56	8.56	8.56	8.56	8.56	8.56	8.56
None	R1 Pond	1.73	1.71	1.67	1.65	1.64	0.748	0.713	0.405
50 %		1.65	1.64	1.62	1.61	1.60	0.682	0.671	0.350
75 %		1.61	1.60	1.59	1.59	1.58	0.656	0.651	0.333
90 %		1.58	1.58	1.58	1.58	1.57	0.640	0.638	0.322
None	R1 Stream	24.1	24.1	24.1	24.1	24.1	11.0	11.0	5.75
50 %		24.1	24.1	24.1	24.1	24.1	11.0	11.0	5.75
75 %		24.1	24.1	24.1	24.1	24.1	11.0	11.0	5.75
90 %		24.1	24.1	24.1	24.1	24.1	11.0	11.0	5.75
None	R2 Stream	16.8	16.8	16.8	16.8	16.8	7.48	7.48	3.89
50 %		16.8	16.8	16.8	16.8	16.8	7.48	7.48	3.89
75 %		16.8	16.8	16.8	16.8	16.8	7.48	7.48	3.89
90 %		16.8	16.8	16.8	16.8	16.8	7.48	7.48	3.89
None	R3 Stream	30.2	30.2	30.2	30.2	30.2	13.8	13.8	7.23
50 %		30.2	30.2	30.2	30.2	30.2	13.8	13.8	7.23

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
75 %		*30.2*	*30.2*	*30.2*	*30.2*	*30.2*	*13.8*	*13.8*	*7.23*
90 %		*30.2*	*30.2*	*30.2*	*30.2*	*30.2*	*13.8*	*13.8*	*7.23*

* Maximum values coming from multiple applications are marked in italics

Potatoes 4X - Late – 4 × 1.0 kg a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 244: FOCUS Step 4 PECsw results for propamocarb-hydrochloride, GAP group name potatoes 4X, assessment name Late (DGR I / PMT II)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	5.24	1.72	0.911	0.623	0.474	0.911	0.623	0.474
50 %		2.62	0.859	0.456	0.311	0.237	0.456	0.311	0.237
75 %		1.31	0.430	0.228	0.156	0.118	0.228	0.156	0.118
90 %		0.524	0.172	0.091	0.062	0.047	0.091	0.062	0.047
None	D4 Pond	*5.70*	*5.70*	*5.68*	*5.67*	*5.67*	*5.68*	*5.67*	*5.67*
50 %		*5.67*	*5.67*	*5.66*	*5.66*	*5.66*	*5.66*	*5.66*	*5.66*
75 %		*5.66*	*5.66*	*5.65*	*5.65*	*5.65*	*5.65*	*5.65*	*5.65*
90 %		*5.65*	*5.65*	*5.65*	*5.65*	*5.65*	*5.65*	*5.65*	*5.65*
None	D4 Stream	*7.03*	*7.03*	*7.03*	*7.03*	*7.03*	*7.03*	*7.03*	*7.03*
50 %		*7.03*	*7.03*	*7.03*	*7.03*	*7.03*	*7.03*	*7.03*	*7.03*
75 %		*7.03*	*7.03*	*7.03*	*7.03*	*7.03*	*7.03*	*7.03*	*7.03*
90 %		*7.03*	*7.03*	*7.03*	*7.03*	*7.03*	*7.03*	*7.03*	*7.03*
None	D6 Ditch	5.21	1.71	0.905	*0.695*	*0.695*	0.905	*0.695*	*0.695*
50 %		2.60	0.853	*0.695*	*0.695*	*0.695*	*0.695*	*0.695*	*0.695*
75 %		1.30	*0.695*	*0.695*	*0.695*	*0.695*	*0.695*	*0.695*	*0.695*
90 %		*0.695*	*0.695*	*0.695*	*0.695*	*0.695*	*0.695*	*0.695*	*0.695*
None	D6 Ditch 2nd	*107*	*107*	*107*	*107*	*107*	*107*	*107*	*107*
50 %		*107*	*107*	*107*	*107*	*107*	*107*	*107*	*107*
75 %		*107*	*107*	*107*	*107*	*107*	*107*	*107*	*107*
90 %		*107*	*107*	*107*	*107*	*107*	*107*	*107*	*107*
None	R1 Pond	*0.295*	*0.285*	*0.273*	*0.266*	*0.262*	*0.188*	*0.150*	*0.125*
50 %		*0.266*	*0.263*	*0.256*	*0.253*	*0.251*	*0.113*	*0.110*	*0.063*
75 %		*0.253*	*0.252*	*0.248*	*0.247*	*0.246*	*0.105*	*0.103*	*0.054*
90 %		*0.245*	*0.245*	*0.243*	*0.243*	*0.242*	*0.100*	*0.099*	*0.051*
None	R1 Stream	*13.8*	*13.8*	*13.8*	*13.8*	*13.8*	*6.18*	*6.18*	*3.22*
50 %		*13.8*	*13.8*	*13.8*	*13.8*	*13.8*	*6.18*	*6.18*	*3.22*
75 %		*13.8*	*13.8*	*13.8*	*13.8*	*13.8*	*6.18*	*6.18*	*3.22*

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
90 %		*13.8*	*13.8*	*13.8*	*13.8*	*13.8*	*6.18*	*6.18*	*3.22*
None	R2 Stream	*12.9*	*12.9*	*12.9*	*12.9*	*12.9*	*5.85*	*5.85*	*3.07*
50 %		*12.9*	*12.9*	*12.9*	*12.9*	*12.9*	*5.85*	*5.85*	*3.07*
75 %		*12.9*	*12.9*	*12.9*	*12.9*	*12.9*	*5.85*	*5.85*	*3.07*
90 %		*12.9*	*12.9*	*12.9*	*12.9*	*12.9*	*5.85*	*5.85*	*3.07*
None	R3 Stream	*24.6*	*24.6*	*24.6*	*24.6*	*24.6*	*11.2*	*11.2*	*5.88*
50 %		*24.6*	*24.6*	*24.6*	*24.6*	*24.6*	*11.2*	*11.2*	*5.88*
75 %		*24.6*	*24.6*	*24.6*	*24.6*	*24.6*	*11.2*	*11.2*	*5.88*
90 %		*24.6*	*24.6*	*24.6*	*24.6*	*24.6*	*11.2*	*11.2*	*5.88*

* Maximum values coming from multiple applications are marked in italics

Potatoes 3X - Early – 3 × 1.0 kg a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 245: FOCUS Step 4 PECsw results for propamocarb-hydrochloride, GAP group name potatoes 3X, assessment name Early (DGR II / PMT III)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	5.24	1.72	0.911	0.622	0.473	0.911	0.622	0.473
50 %		2.62	0.859	0.455	0.311	0.237	0.455	0.311	0.237
75 %		1.31	0.429	0.228	0.156	0.118	0.228	0.156	0.118
90 %		0.524	0.172	0.091	0.062	0.047	0.091	0.062	0.047
None	D4 Pond	*0.365*	*0.354*	*0.352*	*0.352*	*0.351*	*0.352*	*0.352*	*0.351*
50 %		*0.352*	*0.351*	*0.350*	*0.350*	*0.350*	*0.350*	*0.350*	*0.350*
75 %		*0.350*	*0.350*	*0.349*	*0.349*	*0.349*	*0.349*	*0.349*	*0.349*
90 %		*0.349*	*0.349*	*0.349*	*0.349*	*0.349*	*0.349*	*0.349*	*0.349*
None	D4 Stream	4.10	1.73	0.917	0.627	0.478	0.917	0.627	0.478
50 %		2.05	0.864	0.460	*0.393*	*0.393*	0.460	*0.393*	*0.393*
75 %		1.03	0.434	*0.393*	*0.393*	*0.393*	*0.393*	*0.393*	*0.393*
90 %		0.412	*0.393*	*0.393*	*0.393*	*0.393*	*0.393*	*0.393*	*0.393*
None	D6 Ditch	5.18	1.70	0.902	0.617	0.470	0.902	0.617	0.470
50 %		2.59	0.851	0.452	0.309	0.235	0.452	0.309	0.235
75 %		1.30	0.426	0.227	0.155	0.118	0.227	0.155	0.118
90 %		0.520	0.171	0.092	0.063	0.048	0.092	0.063	0.048
None	D6 Ditch 2nd	5.14	*3.89*	*3.89*	*3.89*	*3.89*	*3.89*	*3.89*	*3.89*

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		*3.89*	*3.89*	*3.89*	*3.89*	*3.89*	*3.89*	*3.89*	*3.89*
75 %		*3.89*	*3.89*	*3.89*	*3.89*	*3.89*	*3.89*	*3.89*	*3.89*
90 %		*3.89*	*3.89*	*3.89*	*3.89*	*3.89*	*3.89*	*3.89*	*3.89*
None	R1 Pond	*1.74*	*1.72*	*1.68*	*1.65*	*1.64*	*0.759*	*0.718*	*0.411*
50 %		*1.65*	*1.64*	*1.62*	*1.61*	*1.60*	*0.685*	*0.674*	*0.352*
75 %		*1.61*	*1.61*	*1.60*	*1.59*	*1.59*	*0.657*	*0.652*	*0.334*
90 %		*1.58*	*1.58*	*1.58*	*1.58*	*1.58*	*0.641*	*0.639*	*0.323*
None	R1 Stream	*24.1*	*24.1*	*24.1*	*24.1*	*24.1*	*11.0*	*11.0*	*5.75*
50 %		*24.1*	*24.1*	*24.1*	*24.1*	*24.1*	*11.0*	*11.0*	*5.75*
75 %		*24.1*	*24.1*	*24.1*	*24.1*	*24.1*	*11.0*	*11.0*	*5.75*
90 %		*24.1*	*24.1*	*24.1*	*24.1*	*24.1*	*11.0*	*11.0*	*5.75*
None	R2 Stream	*16.8*	*16.8*	*16.8*	*16.8*	*16.8*	*7.48*	*7.48*	*3.89*
50 %		*16.8*	*16.8*	*16.8*	*16.8*	*16.8*	*7.48*	*7.48*	*3.89*
75 %		*16.8*	*16.8*	*16.8*	*16.8*	*16.8*	*7.48*	*7.48*	*3.89*
90 %		*16.8*	*16.8*	*16.8*	*16.8*	*16.8*	*7.48*	*7.48*	*3.89*
None	R3 Stream	*23.0*	*23.0*	*23.0*	*23.0*	*23.0*	*10.5*	*10.5*	*5.47*
50 %		*23.0*	*23.0*	*23.0*	*23.0*	*23.0*	*10.5*	*10.5*	*5.47*
75 %		*23.0*	*23.0*	*23.0*	*23.0*	*23.0*	*10.5*	*10.5*	*5.47*
90 %		*23.0*	*23.0*	*23.0*	*23.0*	*23.0*	*10.5*	*10.5*	*5.47*

* Maximum values coming from multiple applications are marked in italics

__Potatoes 3X - Late – 3 × 1.0 kg a.s./ha, 7d int. (DGR II / PMT IV)__

Table 9.2.5- 246: FOCUS Step 4 PECsw results for propamocarb-hydrochloride, GAP group name potatoes 3X, assessment name Late (DGR II / PMT IV)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	5.24	1.72	0.911	0.623	0.474	0.911	0.623	0.474
50 %		2.62	0.859	0.456	0.311	0.237	0.456	0.311	0.237
75 %		1.31	0.430	0.228	0.156	0.118	0.228	0.156	0.118
90 %		0.524	0.172	0.091	0.062	0.047	0.091	0.062	0.047
None	D4 Pond	*4.13*	*4.12*	*4.11*	*4.10*	*4.10*	*4.11*	*4.10*	*4.10*
50 %		*4.10*	*4.10*	*4.09*	*4.09*	*4.09*	*4.09*	*4.09*	*4.09*
75 %		*4.09*	*4.09*	*4.09*	*4.09*	*4.08*	*4.09*	*4.09*	*4.08*

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
90 %		*4.08*	*4.08*	*4.08*	*4.08*	*4.08*	*4.08*	*4.08*	*4.08*
None	D4 Stream	*5.00*	*5.00*	*5.00*	*5.00*	*5.00*	*5.00*	*5.00*	*5.00*
50 %		*5.00*	*5.00*	*5.00*	*5.00*	*5.00*	*5.00*	*5.00*	*5.00*
75 %		*5.00*	*5.00*	*5.00*	*5.00*	*5.00*	*5.00*	*5.00*	*5.00*
90 %		*5.00*	*5.00*	*5.00*	*5.00*	*5.00*	*5.00*	*5.00*	*5.00*
None	D6 Ditch	5.21	1.71	0.905	0.618	0.470	0.905	0.618	0.470
50 %		2.60	0.853	0.453	0.309	*0.278*	0.453	0.309	*0.278*
75 %		1.30	0.427	*0.278*	*0.278*	*0.278*	*0.278*	*0.278*	*0.278*
90 %		0.521	*0.278*	*0.278*	*0.278*	*0.278*	*0.278*	*0.278*	*0.278*
None	D6 Ditch 2nd	*107*	*107*	*107*	*107*	*107*	*107*	*107*	*107*
50 %		*107*	*107*	*107*	*107*	*107*	*107*	*107*	*107*
75 %		*107*	*107*	*107*	*107*	*107*	*107*	*107*	*107*
90 %		*107*	*107*	*107*	*107*	*107*	*107*	*107*	*107*
None	R1 Pond	*0.264*	*0.235*	*0.167*	*0.133*	*0.113*	*0.167*	*0.133*	*0.111*
50 %		*0.132*	*0.117*	*0.110*	*0.108*	*0.106*	*0.084*	*0.066*	*0.055*
75 %		*0.108*	*0.107*	*0.105*	*0.104*	*0.103*	*0.045*	*0.044*	*0.028*
90 %		*0.103*	*0.103*	*0.102*	*0.101*	*0.101*	*0.042*	*0.042*	*0.021*
None	R1 Stream	*5.52*	*5.52*	*5.52*	*5.52*	*5.52*	*2.47*	*2.47*	*1.28*
50 %		*5.52*	*5.52*	*5.52*	*5.52*	*5.52*	*2.47*	*2.47*	*1.28*
75 %		*5.52*	*5.52*	*5.52*	*5.52*	*5.52*	*2.47*	*2.47*	*1.28*
90 %		*5.52*	*5.52*	*5.52*	*5.52*	*5.52*	*2.47*	*2.47*	*1.28*
None	R2 Stream	*11.0*	*11.0*	*11.0*	*11.0*	*11.0*	*4.92*	*4.92*	*2.55*
50 %		*11.0*	*11.0*	*11.0*	*11.0*	*11.0*	*4.92*	*4.92*	*2.55*
75 %		*11.0*	*11.0*	*11.0*	*11.0*	*11.0*	*4.92*	*4.92*	*2.55*
90 %		*11.0*	*11.0*	*11.0*	*11.0*	*11.0*	*4.92*	*4.92*	*2.55*
None	R3 Stream	*23.2*	*23.2*	*23.2*	*23.2*	*23.2*	*10.6*	*10.6*	*5.53*
50 %		*23.2*	*23.2*	*23.2*	*23.2*	*23.2*	*10.6*	*10.6*	*5.53*
75 %		*23.2*	*23.2*	*23.2*	*23.2*	*23.2*	*10.6*	*10.6*	*5.53*
90 %		*23.2*	*23.2*	*23.2*	*23.2*	*23.2*	*10.6*	*10.6*	*5.53*

* Maximum values coming from multiple applications are marked in italics

Potatoes 2X - Early – 2 × 1.0 kg a.s./ha, 7d int. (DGR III / PMT V)

Table 9.2.5- 247: FOCUS Step 4 PECsw results for propamocarb-hydrochloride, GAP group name potatoes 2X, assessment name Early (DGR III / PMT V)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	5.24	1.72	0.911	0.622	0.473	0.911	0.622	0.473
50 %		2.62	0.859	0.455	0.311	0.237	0.455	0.311	0.237
75 %		1.31	0.429	0.228	0.156	0.118	0.228	0.156	0.118
90 %		0.524	0.172	0.091	0.062	0.047	0.091	0.062	0.047
None	D4 Pond	*0.313*	*0.279*	*0.200*	*0.199*	*0.199*	*0.200*	*0.199*	*0.199*
50 %		*0.199*	*0.199*	*0.198*	*0.198*	*0.198*	*0.198*	*0.198*	*0.198*
75 %		*0.198*	*0.198*	*0.197*	*0.197*	*0.197*	*0.197*	*0.197*	*0.197*
90 %		*0.197*	*0.197*	*0.197*	*0.197*	*0.197*	*0.197*	*0.197*	*0.197*
None	D4 Stream	4.10	1.73	0.917	0.627	0.478	0.917	0.627	0.478
50 %		2.05	0.864	0.460	0.315	0.240	0.460	0.315	0.240
75 %		1.03	0.434	0.231	*0.221*	*0.221*	0.231	*0.221*	*0.221*
90 %		0.412	*0.221*	*0.221*	*0.221*	*0.221*	*0.221*	*0.221*	*0.221*
None	D6 Ditch	5.18	1.70	0.902	0.617	0.470	0.902	0.617	0.470
50 %		2.59	0.851	0.452	0.309	0.235	0.452	0.309	0.235
75 %		1.30	0.426	0.227	0.155	0.118	0.227	0.155	0.118
90 %		0.520	0.171	0.092	0.063	0.048	0.092	0.063	0.048
None	D6 Ditch 2nd	5.14	1.69	*1.60*	*1.60*	*1.60*	*1.60*	*1.60*	*1.60*
50 %		2.57	*1.60*	*1.60*	*1.60*	*1.60*	*1.60*	*1.60*	*1.60*
75 %		*1.60*	*1.60*	*1.60*	*1.60*	*1.60*	*1.60*	*1.60*	*1.60*
90 %		*1.60*	*1.60*	*1.60*	*1.60*	*1.60*	*1.60*	*1.60*	*1.60*
None	R1 Pond	1.10	1.08	1.04	1.02	1.01	0.477	0.457	0.255
50 %		1.02	1.01	0.993	0.984	0.977	0.428	0.419	0.223
75 %		0.983	0.979	0.969	0.964	0.961	0.404	0.399	0.206
90 %		0.960	0.958	0.955	0.953	0.951	0.390	0.388	0.197
None	R1 Stream	14.6	14.6	14.6	14.6	14.6	6.65	6.65	3.48
50 %		14.6	14.6	14.6	14.6	14.6	6.65	6.65	3.48
75 %		14.6	14.6	14.6	14.6	14.6	6.65	6.65	3.48
90 %		14.6	14.6	14.6	14.6	14.6	6.65	6.65	3.48
None	R2 Stream	*13.8*	*13.8*	*13.8*	*13.8*	*13.8*	*6.16*	*6.16*	*3.20*
50 %		*13.8*	*13.8*	*13.8*	*13.8*	*13.8*	*6.16*	*6.16*	*3.20*
75 %		*13.8*	*13.8*	*13.8*	*13.8*	*13.8*	*6.16*	*6.16*	*3.20*
90 %		*13.8*	*13.8*	*13.8*	*13.8*	*13.8*	*6.16*	*6.16*	*3.20*
None	R3 Stream	*23.0*	*23.0*	*23.0*	*23.0*	*23.0*	*10.5*	*10.5*	*5.47*
50 %		*23.0*	*23.0*	*23.0*	*23.0*	*23.0*	*10.5*	*10.5*	*5.47*

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
75 %		*23.0*	*23.0*	*23.0*	*23.0*	*23.0*	*10.5*	*10.5*	*5.47*
90 %		*23.0*	*23.0*	*23.0*	*23.0*	*23.0*	*10.5*	*10.5*	*5.47*

* Maximum values coming from multiple applications are marked in italics

Potatoes 2X - Late – 2 × 1.0 kg a.s./ha, 7d int. (DGR III / PMT VI)

Table 9.2.5- 248: FOCUS Step 4 PECsw results for propamocarb-hydrochloride, GAP group name potatoes 2X, assessment name Late (DGR III / PMT VI)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	5.24	1.72	0.911	0.623	0.474	0.911	0.623	0.474
50 %		2.62	0.859	0.456	0.311	0.237	0.456	0.311	0.237
75 %		1.31	0.430	0.228	0.156	0.118	0.228	0.156	0.118
90 %		0.524	0.172	0.091	0.062	0.047	0.091	0.062	0.047
None	D4 Pond	*2.51*	*2.51*	*2.50*	*2.50*	*2.49*	*2.50*	*2.50*	*2.49*
50 %		*2.50*	*2.50*	*2.49*	*2.49*	*2.49*	*2.49*	*2.49*	*2.49*
75 %		*2.49*	*2.49*	*2.49*	*2.48*	*2.48*	*2.49*	*2.48*	*2.48*
90 %		*2.48*	*2.48*	*2.48*	*2.48*	*2.48*	*2.48*	*2.48*	*2.48*
None	D4 Stream	3.95	*2.97*	*2.97*	*2.97*	*2.97*	*2.97*	*2.97*	*2.97*
50 %		*2.97*	*2.97*	*2.97*	*2.97*	*2.97*	*2.97*	*2.97*	*2.97*
75 %		*2.97*	*2.97*	*2.97*	*2.97*	*2.97*	*2.97*	*2.97*	*2.97*
90 %		*2.97*	*2.97*	*2.97*	*2.97*	*2.97*	*2.97*	*2.97*	*2.97*
None	D6 Ditch	5.21	1.71	0.905	0.618	0.470	0.905	0.618	0.470
50 %		2.60	0.853	0.453	0.309	0.235	0.453	0.309	0.235
75 %		1.30	0.427	0.226	0.155	0.118	0.226	0.155	0.118
90 %		0.521	0.171	0.091	0.062	*0.058*	0.091	0.062	*0.058*
None	D6 Ditch 2nd	*49.9*	*49.9*	*49.9*	*49.9*	*49.9*	*49.9*	*49.9*	*49.9*
50 %		*49.9*	*49.9*	*49.9*	*49.9*	*49.9*	*49.9*	*49.9*	*49.9*
75 %		*49.9*	*49.9*	*49.9*	*49.9*	*49.9*	*49.9*	*49.9*	*49.9*
90 %		*49.9*	*49.9*	*49.9*	*49.9*	*49.9*	*49.9*	*49.9*	*49.9*
None	R1 Pond	*0.245*	*0.218*	*0.154*	*0.122*	*0.103*	*0.154*	*0.122*	*0.102*
50 %		*0.122*	*0.109*	*0.100*	*0.098*	*0.097*	*0.077*	*0.061*	*0.051*
75 %		*0.098*	*0.097*	*0.096*	*0.095*	*0.094*	*0.041*	*0.040*	*0.025*
90 %		*0.094*	*0.094*	*0.093*	*0.093*	*0.092*	*0.039*	*0.038*	*0.020*

PECsw (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	R1 Stream	*4.79*	*4.79*	*4.79*	*4.79*	*4.79*	*2.14*	*2.14*	*1.11*
50 %		*4.79*	*4.79*	*4.79*	*4.79*	*4.79*	*2.14*	*2.14*	*1.11*
75 %		*4.79*	*4.79*	*4.79*	*4.79*	*4.79*	*2.14*	*2.14*	*1.11*
90 %		*4.79*	*4.79*	*4.79*	*4.79*	*4.79*	*2.14*	*2.14*	*1.11*
None	R2 Stream	*11.0*	*11.0*	*11.0*	*11.0*	*11.0*	*4.92*	*4.92*	*2.55*
50 %		*11.0*	*11.0*	*11.0*	*11.0*	*11.0*	*4.92*	*4.92*	*2.55*
75 %		*11.0*	*11.0*	*11.0*	*11.0*	*11.0*	*4.92*	*4.92*	*2.55*
90 %		*11.0*	*11.0*	*11.0*	*11.0*	*11.0*	*4.92*	*4.92*	*2.55*
None	R3 Stream	*22.5*	*22.5*	*22.5*	*22.5*	*22.5*	*10.2*	*10.2*	*5.37*
50 %		*22.5*	*22.5*	*22.5*	*22.5*	*22.5*	*10.2*	*10.2*	*5.37*
75 %		*22.5*	*22.5*	*22.5*	*22.5*	*22.5*	*10.2*	*10.2*	*5.37*
90 %		*22.5*	*22.5*	*22.5*	*22.5*	*22.5*	*10.2*	*10.2*	*5.37*

* Maximum values coming from multiple applications are marked in italics

Potatoes 1X - Early - 1 kg a.s./ha (DGR IV / PMT VII)

Table 9.2.5- 249: FOCUS Step 4 PECsw results for propamocarb-hydrochloride, GAP group name potatoes 1X, assessment name Early (DGR IV / PMT VII)

PECsw (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	5.24	1.72	0.911	0.622	0.473	0.911	0.622	0.473
50 %		2.62	0.859	0.455	0.311	0.237	0.455	0.311	0.237
75 %		1.31	0.429	0.228	0.156	0.118	0.228	0.156	0.118
90 %		0.524	0.172	0.091	0.062	0.047	0.091	0.062	0.047
None	D4 Pond	0.214	0.192	0.138	0.111	0.093	0.138	0.111	0.093
50 %		0.108	0.097	0.079	0.079	0.079	0.079	0.079	0.079
75 %		0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079
90 %		0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078
None	D4 Stream	4.10	1.73	0.917	0.627	0.478	0.917	0.627	0.478
50 %		2.05	0.864	0.460	0.315	0.240	0.460	0.315	0.240
75 %		1.03	0.434	0.231	0.159	0.122	0.231	0.159	0.122
90 %		0.412	0.175	0.094	0.089	0.089	0.094	0.089	0.089
None	D6 Ditch	5.18	1.70	0.902	0.617	0.470	0.902	0.617	0.470
50 %		2.59	0.851	0.452	0.309	0.235	0.452	0.309	0.235

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
75 %		1.30	0.426	0.227	0.155	0.118	0.227	0.155	0.118
90 %		0.520	0.171	0.092	0.063	0.048	0.092	0.063	0.048
None	D6 Ditch 2nd	5.14	1.69	0.894	0.611	0.478	0.894	0.611	0.478
50 %		2.57	0.843	0.478	0.478	0.478	0.478	0.478	0.478
75 %		1.29	0.478	0.478	0.478	0.478	0.478	0.478	0.478
90 %		0.514	0.478	0.478	0.478	0.478	0.478	0.478	0.478
None	R1 Pond	1.10	1.08	1.04	1.02	1.01	0.477	0.457	0.255
50 %		1.02	1.01	0.993	0.984	0.977	0.428	0.419	0.223
75 %		0.983	0.979	0.969	0.964	0.961	0.404	0.399	0.206
90 %		0.960	0.958	0.955	0.953	0.951	0.390	0.388	0.197
None	R1 Stream	14.6	14.6	14.6	14.6	14.6	6.65	6.65	3.48
50 %		14.6	14.6	14.6	14.6	14.6	6.65	6.65	3.48
75 %		14.6	14.6	14.6	14.6	14.6	6.65	6.65	3.48
90 %		14.6	14.6	14.6	14.6	14.6	6.65	6.65	3.48
None	R2 Stream	5.46	5.46	5.46	5.46	5.46	2.44	2.44	1.27
50 %		5.46	5.46	5.46	5.46	5.46	2.44	2.44	1.27
75 %		5.46	5.46	5.46	5.46	5.46	2.44	2.44	1.27
90 %		5.46	5.46	5.46	5.46	5.46	2.44	2.44	1.27
None	R3 Stream	5.12	4.48	4.48	4.48	4.48	2.02	2.02	1.06
50 %		4.48	4.48	4.48	4.48	4.48	2.02	2.02	1.06
75 %		4.48	4.48	4.48	4.48	4.48	2.02	2.02	1.06
90 %		4.48	4.48	4.48	4.48	4.48	2.02	2.02	1.06

Potatoes 1X - Late - 1 kg a.s./ha (DGR IV / PMT VIII)

Table 9.2.5- 250: FOCUS Step 4 PECsw results for propamocarb-hydrochloride, GAP group name potatoes 1X, assessment name Late (DGR IV / PMT VIII)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	5.24	1.72	0.911	0.623	0.474	0.911	0.623	0.474
50 %		2.62	0.859	0.456	0.311	0.237	0.456	0.311	0.237
75 %		1.31	0.430	0.228	0.156	0.118	0.228	0.156	0.118
90 %		0.524	0.172	0.091	0.062	0.047	0.091	0.062	0.047
None	D4 Pond	0.823	0.821	0.817	0.815	0.814	0.817	0.815	0.814

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		0.815	0.814	0.812	0.811	0.810	0.812	0.811	0.810
75 %		0.811	0.810	0.809	0.809	0.808	0.809	0.809	0.808
90 %		0.808	0.808	0.808	0.807	0.807	0.808	0.807	0.807
None	D4 Stream	3.95	1.67	0.945	0.945	0.945	0.945	0.945	0.945
50 %		1.98	0.945	0.945	0.945	0.945	0.945	0.945	0.945
75 %		0.997	0.945	0.945	0.945	0.945	0.945	0.945	0.945
90 %		0.945	0.945	0.945	0.945	0.945	0.945	0.945	0.945
None	D6 Ditch	5.21	1.71	0.905	0.618	0.470	0.905	0.618	0.470
50 %		2.60	0.853	0.453	0.309	0.235	0.453	0.309	0.235
75 %		1.30	0.427	0.226	0.155	0.118	0.226	0.155	0.118
90 %		0.521	0.171	0.091	0.062	0.047	0.091	0.062	0.047
None	D6 Ditch 2nd	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
50 %		16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
75 %		16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
90 %		16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
None	R1 Pond	0.212	0.189	0.136	0.108	0.091	0.136	0.108	0.091
50 %		0.106	0.095	0.068	0.054	0.045	0.068	0.054	0.045
75 %		0.053	0.047	0.034	0.027	0.023	0.034	0.027	0.023
90 %		0.023	0.023	0.023	0.023	0.023	0.014	0.011	0.009
None	R1 Stream	3.60	1.52	1.09	1.09	1.09	0.804	0.549	0.418
50 %		1.80	1.09	1.09	1.09	1.09	0.488	0.488	0.254
75 %		1.09	1.09	1.09	1.09	1.09	0.488	0.488	0.254
90 %		1.09	1.09	1.09	1.09	1.09	0.488	0.488	0.254
None	R2 Stream	5.91	5.91	5.91	5.91	5.91	2.64	2.64	1.37
50 %		5.91	5.91	5.91	5.91	5.91	2.64	2.64	1.37
75 %		5.91	5.91	5.91	5.91	5.91	2.64	2.64	1.37
90 %		5.91	5.91	5.91	5.91	5.91	2.64	2.64	1.37
None	R3 Stream	13.7	13.7	13.7	13.7	13.7	6.23	6.23	3.27
50 %		13.7	13.7	13.7	13.7	13.7	6.23	6.23	3.27
75 %		13.7	13.7	13.7	13.7	13.7	6.23	6.23	3.27
90 %		13.7	13.7	13.7	13.7	13.7	6.23	6.23	3.27

Potatoes 4X - Early – 4 × 1.0 kg a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 251: FOCUS Step 4 PECsed results for propamocarb-hydrochloride, GAP group name potatoes 4X, assessment name Early (DGR I / PMT I)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*2.24*	*0.777*	*0.425*	*0.296*	*0.228*	*0.425*	*0.296*	*0.228*
50 %		*1.17*	*0.404*	*0.221*	*0.154*	*0.119*	*0.221*	*0.154*	*0.119*
75 %		*0.607*	*0.210*	*0.115*	*0.080*	*0.062*	*0.115*	*0.080*	*0.062*
90 %		*0.256*	*0.089*	*0.048*	*0.034*	*0.026*	*0.048*	*0.034*	*0.026*
None	D4 Pond	*2.86*	*2.82*	*2.72*	*2.66*	*2.63*	*2.72*	*2.66*	*2.63*
50 %		*2.66*	*2.64*	*2.59*	*2.56*	*2.55*	*2.59*	*2.56*	*2.55*
75 %		*2.56*	*2.55*	*2.53*	*2.51*	*2.50*	*2.53*	*2.51*	*2.50*
90 %		*2.50*	*2.50*	*2.49*	*2.48*	*2.48*	*2.49*	*2.48*	*2.48*
None	D4 Stream	*1.52*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*
50 %		*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*
75 %		*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*	*1.51*
90 %		*1.51*	*1.51*	*1.51*	*1.50*	*1.50*	*1.51*	*1.50*	*1.50*
None	D6 Ditch	*1.46*	*0.513*	*0.286*	*0.203*	*0.160*	*0.286*	*0.203*	*0.160*
50 %		*0.765*	*0.273*	*0.155*	*0.112*	*0.100*	*0.155*	*0.112*	*0.100*
75 %		*0.403*	*0.148*	*0.100*	*0.096*	*0.094*	*0.100*	*0.096*	*0.094*
90 %		*0.178*	*0.097*	*0.093*	*0.091*	*0.091*	*0.093*	*0.091*	*0.091*
None	D6 Ditch 2nd	*4.97*	*4.78*	*4.74*	*4.72*	*4.71*	*4.74*	*4.72*	*4.71*
50 %		*4.83*	*4.73*	*4.71*	*4.70*	*4.70*	*4.71*	*4.70*	*4.70*
75 %		*4.76*	*4.71*	*4.70*	*4.69*	*4.69*	*4.70*	*4.69*	*4.69*
90 %		*4.71*	*4.69*	*4.69*	*4.69*	*4.68*	*4.69*	*4.69*	*4.68*
None	R1 Pond	*3.64*	*3.55*	*3.34*	*3.23*	*3.17*	*1.75*	*1.63*	*1.01*
50 %		*3.23*	*3.19*	*3.09*	*3.03*	*3.00*	*1.47*	*1.41*	*0.814*
75 %		*3.03*	*3.01*	*2.96*	*2.93*	*2.92*	*1.33*	*1.30*	*0.717*
90 %		*2.91*	*2.90*	*2.88*	*2.87*	*2.87*	*1.25*	*1.24*	*0.662*
None	R1 Stream	*10.7*	*10.6*	*10.6*	*10.6*	*10.6*	*4.58*	*4.57*	*2.43*
50 %		*10.6*	*10.6*	*10.6*	*10.6*	*10.6*	*4.57*	*4.56*	*2.42*
75 %		*10.6*	*10.6*	*10.6*	*10.6*	*10.6*	*4.56*	*4.56*	*2.42*
90 %		*10.6*	*10.6*	*10.6*	*10.6*	*10.6*	*4.56*	*4.56*	*2.42*
None	R2 Stream	*8.01*	*7.98*	*7.96*	*7.96*	*7.96*	*2.98*	*2.98*	*1.56*
50 %		*7.98*	*7.96*	*7.96*	*7.95*	*7.95*	*2.97*	*2.97*	*1.56*
75 %		*7.96*	*7.96*	*7.95*	*7.95*	*7.95*	*2.97*	*2.97*	*1.56*
90 %		*7.95*	*7.95*	*7.95*	*7.95*	*7.95*	*2.96*	*2.96*	*1.55*
None	R3 Stream	*15.0*	*14.7*	*14.7*	*14.6*	*14.6*	*6.34*	*6.31*	*3.37*
50 %		*14.8*	*14.7*	*14.6*	*14.6*	*14.6*	*6.29*	*6.28*	*3.35*

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
75 %		*14.7*	*14.6*	*14.6*	*14.6*	*14.6*	*6.27*	*6.26*	*3.34*
90 %		*14.6*	*14.6*	*14.6*	*14.6*	*14.6*	*6.26*	*6.26*	*3.33*

* Maximum values coming from multiple applications are marked in italics

<u>Potatoes 4X - Late – 4 × 1.0 kg a.s./ha, 7d int. (DGR I / PMT II)</u>

Table 9.2.5- 252: FOCUS Step 4 PECsed results for propamocarb-hydrochloride, GAP group name potatoes 4X, assessment name Late (DGR I / PMT II)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*2.44*	*0.848*	*0.464*	*0.323*	*0.249*	*0.464*	*0.323*	*0.249*
50 %		*1.27*	*0.441*	*0.242*	*0.168*	*0.130*	*0.242*	*0.168*	*0.130*
75 %		*0.663*	*0.230*	*0.126*	*0.087*	*0.067*	*0.126*	*0.087*	*0.067*
90 %		*0.279*	*0.097*	*0.053*	*0.037*	*0.028*	*0.053*	*0.037*	*0.028*
None	D4 Pond	*18.1*	*18.0*	*17.8*	*17.7*	*17.6*	*17.8*	*17.7*	*17.6*
50 %		*17.7*	*17.7*	*17.6*	*17.5*	*17.5*	*17.6*	*17.5*	*17.5*
75 %		*17.5*	*17.5*	*17.5*	*17.4*	*17.4*	*17.5*	*17.4*	*17.4*
90 %		*17.4*	*17.4*	*17.4*	*17.4*	*17.4*	*17.4*	*17.4*	*17.4*
None	D4 Stream	*10.1*	*10.1*	*10.1*	*10.1*	*10.1*	*10.1*	*10.1*	*10.1*
50 %		*10.1*	*10.1*	*10.1*	*10.1*	*10.1*	*10.1*	*10.1*	*10.1*
75 %		*10.1*	*10.1*	*10.1*	*10.1*	*10.1*	*10.1*	*10.1*	*10.1*
90 %		*10.1*	*10.1*	*10.1*	*10.1*	*10.1*	*10.1*	*10.1*	*10.1*
None	D6 Ditch	*1.40*	*1.08*	*1.02*	*1.00*	*0.992*	*1.02*	*1.00*	*0.992*
50 %		*1.13*	*1.02*	*0.991*	*0.981*	*0.975*	*0.991*	*0.981*	*0.975*
75 %		*1.05*	*0.989*	*0.975*	*0.969*	*0.967*	*0.975*	*0.969*	*0.967*
90 %		*0.996*	*0.971*	*0.965*	*0.963*	*0.961*	*0.965*	*0.963*	*0.961*
None	D6 Ditch 2nd	*57.1*	*56.6*	*56.5*	*56.4*	*56.4*	*56.5*	*56.4*	*56.4*
50 %		*56.7*	*56.4*	*56.4*	*56.4*	*56.4*	*56.4*	*56.4*	*56.4*
75 %		*56.5*	*56.4*	*56.4*	*56.3*	*56.3*	*56.4*	*56.3*	*56.3*
90 %		*56.4*	*56.3*	*56.3*	*56.3*	*56.3*	*56.3*	*56.3*	*56.3*
None	R1 Pond	*1.79*	*1.72*	*1.56*	*1.48*	*1.42*	*0.934*	*0.846*	*0.564*
50 %		*1.47*	*1.44*	*1.36*	*1.31*	*1.29*	*0.719*	*0.674*	*0.415*
75 %		*1.31*	*1.29*	*1.25*	*1.23*	*1.22*	*0.610*	*0.588*	*0.340*
90 %		*1.21*	*1.21*	*1.19*	*1.18*	*1.17*	*0.544*	*0.535*	*0.294*

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	R1 Stream	*3.21*	*3.16*	*3.14*	*3.13*	*3.12*	*1.43*	*1.43*	*0.758*
50 %		*3.16*	*3.13*	*3.12*	*3.12*	*3.12*	*1.42*	*1.42*	*0.751*
75 %		*3.14*	*3.12*	*3.12*	*3.11*	*3.11*	*1.42*	*1.41*	*0.748*
90 %		*3.12*	*3.12*	*3.11*	*3.11*	*3.11*	*1.41*	*1.41*	*0.746*
None	R2 Stream	*11.7*	*11.7*	*11.6*	*11.6*	*11.6*	*3.92*	*3.91*	*1.97*
50 %		*11.7*	*11.6*	*11.6*	*11.6*	*11.6*	*3.91*	*3.91*	*1.96*
75 %		*11.6*	*11.6*	*11.6*	*11.6*	*11.6*	*3.91*	*3.90*	*1.96*
90 %		*11.6*	*11.6*	*11.6*	*11.6*	*11.6*	*3.90*	*3.90*	*1.96*
None	R3 Stream	*19.4*	*19.2*	*19.1*	*19.1*	*19.0*	*7.26*	*7.23*	*3.77*
50 %		*19.2*	*19.1*	*19.0*	*19.0*	*19.0*	*7.21*	*7.20*	*3.74*
75 %		*19.1*	*19.0*	*19.0*	*19.0*	*19.0*	*7.19*	*7.19*	*3.73*
90 %		*19.0*	*19.0*	*19.0*	*19.0*	*19.0*	*7.18*	*7.18*	*3.72*

* Maximum values coming from multiple applications are marked in italics

Potatoes 3X - Early – 3 × 1.0 kg a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 253: FOCUS Step 4 PECsed results for propamocarb-hydrochloride, GAP group name potatoes 3X, assessment name Early (DGR II / PMT III)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*2.07*	*0.709*	*0.385*	*0.267*	*0.205*	*0.385*	*0.267*	*0.205*
50 %		*1.08*	*0.368*	*0.200*	*0.139*	*0.107*	*0.200*	*0.139*	*0.107*
75 %		*0.560*	*0.191*	*0.104*	*0.072*	*0.055*	*0.104*	*0.072*	*0.055*
90 %		*0.236*	*0.080*	*0.044*	*0.030*	*0.023*	*0.044*	*0.030*	*0.023*
None	D4 Pond	*1.77*	*1.73*	*1.65*	*1.61*	*1.59*	*1.65*	*1.61*	*1.59*
50 %		*1.61*	*1.59*	*1.55*	*1.53*	*1.52*	*1.55*	*1.53*	*1.52*
75 %		*1.53*	*1.52*	*1.50*	*1.49*	*1.48*	*1.50*	*1.49*	*1.48*
90 %		*1.48*	*1.48*	*1.47*	*1.47*	*1.46*	*1.47*	*1.47*	*1.46*
None	D4 Stream	*0.890*	*0.884*	*0.882*	*0.882*	*0.881*	*0.882*	*0.882*	*0.881*
50 %		*0.885*	*0.882*	*0.881*	*0.881*	*0.881*	*0.881*	*0.881*	*0.881*
75 %		*0.883*	*0.881*	*0.881*	*0.880*	*0.880*	*0.881*	*0.880*	*0.880*
90 %		*0.881*	*0.881*	*0.880*	*0.880*	*0.880*	*0.880*	*0.880*	*0.880*
None	D6 Ditch	*1.41*	*0.489*	*0.271*	*0.192*	*0.150*	*0.271*	*0.192*	*0.150*
50 %		*0.738*	*0.260*	*0.147*	*0.106*	*0.085*	*0.147*	*0.106*	*0.085*

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
75 %		*0.388*	*0.141*	*0.083*	*0.066*	*0.065*	*0.083*	*0.066*	*0.065*
90 %		*0.171*	*0.068*	*0.064*	*0.062*	*0.062*	*0.064*	*0.062*	*0.062*
None	D6 Ditch 2nd	*2.41*	*2.29*	*2.27*	*2.26*	*2.25*	*2.27*	*2.26*	*2.25*
50 %		*2.33*	*2.27*	*2.25*	*2.25*	*2.24*	*2.25*	*2.25*	*2.24*
75 %		*2.28*	*2.25*	*2.24*	*2.24*	*2.24*	*2.24*	*2.24*	*2.24*
90 %		*2.25*	*2.24*	*2.24*	*2.24*	*2.24*	*2.24*	*2.24*	*2.24*
None	R1 Pond	*3.44*	*3.37*	*3.19*	*3.10*	*3.05*	*1.62*	*1.53*	*0.925*
50 %		*3.10*	*3.06*	*2.97*	*2.93*	*2.90*	*1.39*	*1.35*	*0.767*
75 %		*2.93*	*2.91*	*2.86*	*2.84*	*2.83*	*1.28*	*1.25*	*0.687*
90 %		*2.82*	*2.82*	*2.80*	*2.79*	*2.78*	*1.21*	*1.20*	*0.639*
None	R1 Stream	*10.7*	*10.6*	*10.6*	*10.6*	*10.6*	*4.58*	*4.57*	*2.43*
50 %		*10.6*	*10.6*	*10.6*	*10.6*	*10.6*	*4.57*	*4.56*	*2.42*
75 %		*10.6*	*10.6*	*10.6*	*10.6*	*10.6*	*4.56*	*4.56*	*2.42*
90 %		*10.6*	*10.6*	*10.6*	*10.6*	*10.6*	*4.56*	*4.56*	*2.42*
None	R2 Stream	*7.13*	*7.08*	*7.06*	*7.05*	*7.05*	*2.98*	*2.98*	*1.57*
50 %		*7.08*	*7.06*	*7.05*	*7.04*	*7.04*	*2.97*	*2.97*	*1.56*
75 %		*7.06*	*7.05*	*7.04*	*7.04*	*7.04*	*2.97*	*2.97*	*1.56*
90 %		*7.05*	*7.04*	*7.04*	*7.04*	*7.04*	*2.96*	*2.96*	*1.55*
None	R3 Stream	*7.27*	*7.13*	*7.08*	*7.06*	*7.05*	*3.29*	*3.27*	*1.76*
50 %		*7.15*	*7.08*	*7.05*	*7.04*	*7.04*	*3.26*	*3.25*	*1.75*
75 %		*7.09*	*7.05*	*7.04*	*7.03*	*7.03*	*3.25*	*3.24*	*1.74*
90 %		*7.05*	*7.03*	*7.03*	*7.03*	*7.03*	*3.24*	*3.23*	*1.74*

* Maximum values coming from multiple applications are marked in italics

Potatoes 3X - Late – 3 × 1.0 kg a.s./ha, 7d int. (DGR II / PMT IV)

Table 9.2.5- 254: FOCUS Step 4 PECsed results for propamocarb-hydrochloride, GAP group name potatoes 3X, assessment name Late (DGR II / PMT IV)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*2.24*	*0.767*	*0.417*	*0.289*	*0.223*	*0.417*	*0.289*	*0.223*
50 %		*1.17*	*0.399*	*0.217*	*0.150*	*0.116*	*0.217*	*0.150*	*0.116*
75 %		*0.606*	*0.208*	*0.113*	*0.078*	*0.060*	*0.113*	*0.078*	*0.060*
90 %		*0.255*	*0.087*	*0.047*	*0.033*	*0.025*	*0.047*	*0.033*	*0.025*

PEC_{sed} (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D4 Pond	*13.2*	*13.2*	*13.0*	*12.9*	*12.9*	*13.0*	*12.9*	*12.9*
50 %		*12.9*	*12.9*	*12.8*	*12.8*	*12.8*	*12.8*	*12.8*	*12.8*
75 %		*12.8*	*12.8*	*12.7*	*12.7*	*12.7*	*12.7*	*12.7*	*12.7*
90 %		*12.7*	*12.7*	*12.7*	*12.7*	*12.7*	*12.7*	*12.7*	*12.7*
None	D4 Stream	*7.31*	*7.30*	*7.30*	*7.30*	*7.30*	*7.30*	*7.30*	*7.30*
50 %		*7.31*	*7.30*	*7.30*	*7.30*	*7.30*	*7.30*	*7.30*	*7.30*
75 %		*7.30*	*7.30*	*7.30*	*7.30*	*7.30*	*7.30*	*7.30*	*7.30*
90 %		*7.30*	*7.30*	*7.30*	*7.30*	*7.30*	*7.30*	*7.30*	*7.30*
None	D6 Ditch	1.40	0.480	*0.432*	*0.417*	*0.409*	*0.432*	*0.417*	*0.409*
50 %		0.720	*0.430*	*0.408*	*0.400*	*0.396*	*0.408*	*0.400*	*0.396*
75 %		*0.454*	*0.407*	*0.396*	*0.391*	*0.389*	*0.396*	*0.391*	*0.389*
90 %		*0.413*	*0.393*	*0.388*	*0.386*	*0.385*	*0.388*	*0.386*	*0.385*
None	D6 Ditch 2nd	*49.2*	*48.5*	*48.4*	*48.3*	*48.3*	*48.4*	*48.3*	*48.3*
50 %		*48.7*	*48.4*	*48.3*	*48.3*	*48.3*	*48.3*	*48.3*	*48.3*
75 %		*48.5*	*48.3*	*48.3*	*48.3*	*48.3*	*48.3*	*48.3*	*48.3*
90 %		*48.3*	*48.3*	*48.2*	*48.2*	*48.2*	*48.2*	*48.2*	*48.2*
None	R1 Pond	*1.00*	*0.950*	*0.827*	*0.763*	*0.723*	*0.551*	*0.484*	*0.346*
50 %		*0.761*	*0.734*	*0.672*	*0.640*	*0.620*	*0.389*	*0.356*	*0.232*
75 %		*0.639*	*0.626*	*0.594*	*0.578*	*0.568*	*0.308*	*0.291*	*0.176*
90 %		*0.565*	*0.560*	*0.547*	*0.540*	*0.536*	*0.258*	*0.251*	*0.142*
None	R1 Stream	*1.35*	*1.31*	*1.30*	*1.29*	*1.29*	*0.596*	*0.590*	*0.314*
50 %		*1.32*	*1.30*	*1.29*	*1.29*	*1.28*	*0.587*	*0.584*	*0.310*
75 %		*1.30*	*1.29*	*1.28*	*1.28*	*1.28*	*0.583*	*0.581*	*0.308*
90 %		*1.29*	*1.28*	*1.28*	*1.28*	*1.28*	*0.580*	*0.579*	*0.306*
None	R2 Stream	*6.76*	*6.72*	*6.71*	*6.71*	*6.71*	*2.32*	*2.32*	*1.17*
50 %		*6.73*	*6.71*	*6.71*	*6.70*	*6.70*	*2.31*	*2.31*	*1.17*
75 %		*6.71*	*6.71*	*6.70*	*6.70*	*6.70*	*2.31*	*2.31*	*1.17*
90 %		*6.71*	*6.70*	*6.70*	*6.70*	*6.70*	*2.31*	*2.31*	*1.17*
None	R3 Stream	*16.1*	*15.9*	*15.8*	*15.8*	*15.8*	*6.15*	*6.12*	*3.20*
50 %		*15.9*	*15.8*	*15.8*	*15.8*	*15.8*	*6.11*	*6.10*	*3.18*
75 %		*15.8*	*15.8*	*15.8*	*15.8*	*15.8*	*6.09*	*6.08*	*3.17*
90 %		*15.8*	*15.8*	*15.8*	*15.7*	*15.7*	*6.08*	*6.08*	*3.17*

* Maximum values coming from multiple applications are marked in italics

Potatoes 2X - Early – 2 × 1.0 kg a.s./ha, 7d int. (DGR III / PMT V)

Table 9.2.5- 255: FOCUS Step 4 PECsed results for propamocarb-hydrochloride, GAP group name potatoes 2X, assessment name Early (DGR III / PMT V)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*2.12*	*0.713*	*0.384*	*0.264*	*0.202*	*0.384*	*0.264*	*0.202*
50 %		*1.10*	*0.370*	*0.199*	*0.137*	*0.105*	*0.199*	*0.137*	*0.105*
75 %		*0.572*	*0.192*	*0.103*	*0.071*	*0.054*	*0.103*	*0.071*	*0.054*
90 %		*0.240*	*0.081*	*0.043*	*0.030*	*0.023*	*0.043*	*0.030*	*0.023*
None	D4 Pond	*1.09*	*1.06*	*0.998*	*0.965*	*0.943*	*0.998*	*0.965*	*0.943*
50 %		*0.965*	*0.951*	*0.918*	*0.901*	*0.890*	*0.918*	*0.901*	*0.890*
75 %		*0.901*	*0.894*	*0.877*	*0.868*	*0.863*	*0.877*	*0.868*	*0.863*
90 %		*0.862*	*0.859*	*0.852*	*0.849*	*0.846*	*0.852*	*0.849*	*0.846*
None	D4 Stream	*0.506*	*0.501*	*0.500*	*0.499*	*0.499*	*0.500*	*0.499*	*0.499*
50 %		*0.502*	*0.500*	*0.499*	*0.499*	*0.498*	*0.499*	*0.499*	*0.498*
75 %		*0.500*	*0.499*	*0.498*	*0.498*	*0.498*	*0.498*	*0.498*	*0.498*
90 %		*0.499*	*0.498*	*0.498*	*0.498*	*0.498*	*0.498*	*0.498*	*0.498*
None	D6 Ditch	1.17	0.408	0.228	0.162	0.127	0.228	0.162	0.127
50 %		0.606	0.216	0.123	0.090	0.072	0.123	0.090	0.072
75 %		0.317	0.117	0.070	0.053	*0.044*	0.070	0.053	*0.044*
90 %		0.139	0.056	*0.044*	*0.043*	*0.043*	*0.044*	*0.043*	*0.043*
None	D6 Ditch 2nd	*1.12*	*1.04*	*1.02*	*1.02*	*1.01*	*1.02*	*1.02*	*1.01*
50 %		*1.07*	*1.02*	*1.01*	*1.01*	*1.01*	*1.01*	*1.01*	*1.01*
75 %		*1.03*	*1.01*	*1.01*	*1.01*	*1.00*	*1.01*	*1.01*	*1.00*
90 %		*1.01*	*1.01*	*1.00*	*1.00*	*1.00*	*1.00*	*1.00*	*1.00*
None	R1 Pond	*2.29*	*2.23*	*2.10*	*2.04*	*1.99*	*1.09*	*1.02*	*0.624*
50 %		*2.04*	*2.01*	*1.94*	*1.91*	*1.89*	*0.920*	*0.885*	*0.508*
75 %		*1.91*	*1.90*	*1.86*	*1.85*	*1.84*	*0.835*	*0.817*	*0.450*
90 %		*1.83*	*1.83*	*1.81*	*1.81*	*1.80*	*0.784*	*0.777*	*0.415*
None	R1 Stream	6.96	6.91	6.89	6.88	6.88	2.86	2.85	1.51
50 %		6.91	6.89	6.88	6.87	6.87	2.85	2.85	1.50
75 %		6.89	6.88	6.87	6.87	6.87	2.84	2.84	1.50
90 %		6.88	6.87	6.87	6.87	6.87	2.84	2.84	1.49
None	R2 Stream	*4.41*	*4.37*	*4.36*	*4.36*	*4.36*	*1.85*	*1.85*	*0.973*
50 %		*4.38*	*4.36*	*4.36*	*4.35*	*4.35*	*1.85*	*1.84*	*0.969*
75 %		*4.36*	*4.36*	*4.35*	*4.35*	*4.35*	*1.84*	*1.84*	*0.968*
90 %		*4.36*	*4.35*	*4.35*	*4.35*	*4.35*	*1.84*	*1.84*	*0.967*
None	R3 Stream	*7.32*	*7.15*	*7.09*	*7.07*	*7.06*	*3.30*	*3.28*	*1.77*
50 %		*7.17*	*7.09*	*7.06*	*7.05*	*7.04*	*3.27*	*3.25*	*1.75*

PECsed (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
75 %		*7.10*	*7.06*	*7.04*	*7.04*	*7.03*	*3.25*	*3.24*	*1.74*
90 %		*7.05*	*7.04*	*7.03*	*7.03*	*7.03*	*3.24*	*3.24*	*1.74*

* Maximum values coming from multiple applications are marked in italics

Potatoes 2X - Late – 2 × 1.0 kg a.s./ha, 7d int. (DGR III / PMT VI)

Table 9.2.5- 256: FOCUS Step 4 PECsed results for propamocarb-hydrochloride, GAP group name potatoes 2X, assessment name Late (DGR III / PMT VI)

PECsed (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*2.28*	*0.769*	*0.414*	*0.286*	*0.219*	*0.414*	*0.286*	*0.219*
50 %		*1.19*	*0.400*	*0.215*	*0.148*	*0.114*	*0.215*	*0.148*	*0.114*
75 %		*0.617*	*0.208*	*0.112*	*0.077*	*0.059*	*0.112*	*0.077*	*0.059*
90 %		*0.260*	*0.087*	*0.047*	*0.032*	*0.025*	*0.047*	*0.032*	*0.025*
None	D4 Pond	*8.45*	*8.40*	*8.29*	*8.23*	*8.20*	*8.29*	*8.23*	*8.20*
50 %		*8.23*	*8.21*	*8.15*	*8.12*	*8.10*	*8.15*	*8.12*	*8.10*
75 %		*8.12*	*8.11*	*8.08*	*8.07*	*8.06*	*8.08*	*8.07*	*8.06*
90 %		*8.06*	*8.05*	*8.04*	*8.03*	*8.03*	*8.04*	*8.03*	*8.03*
None	D4 Stream	*4.67*	*4.66*	*4.66*	*4.66*	*4.66*	*4.66*	*4.66*	*4.66*
50 %		*4.66*	*4.66*	*4.66*	*4.66*	*4.66*	*4.66*	*4.66*	*4.66*
75 %		*4.66*	*4.66*	*4.66*	*4.66*	*4.66*	*4.66*	*4.66*	*4.66*
90 %		*4.66*	*4.66*	*4.66*	*4.66*	*4.66*	*4.66*	*4.66*	*4.66*
None	D6 Ditch	*1.49*	*0.497*	*0.266*	*0.183*	*0.140*	*0.266*	*0.183*	*0.140*
50 %		*0.769*	*0.257*	*0.137*	*0.110*	*0.107*	*0.137*	*0.110*	*0.107*
75 %		*0.397*	*0.133*	*0.107*	*0.104*	*0.102*	*0.107*	*0.104*	*0.102*
90 %		*0.166*	*0.104*	*0.101*	*0.100*	*0.099*	*0.101*	*0.100*	*0.099*
None	D6 Ditch 2nd	*24.1*	*23.5*	*23.4*	*23.3*	*23.3*	*23.4*	*23.3*	*23.3*
50 %		*23.7*	*23.4*	*23.3*	*23.3*	*23.3*	*23.3*	*23.3*	*23.3*
75 %		*23.4*	*23.3*	*23.3*	*23.2*	*23.2*	*23.3*	*23.2*	*23.2*
90 %		*23.3*	*23.2*	*23.2*	*23.2*	*23.2*	*23.2*	*23.2*	*23.2*
None	R1 Pond	*0.875*	*0.831*	*0.729*	*0.677*	*0.643*	*0.473*	*0.418*	*0.291*
50 %		*0.677*	*0.655*	*0.603*	*0.577*	*0.560*	*0.342*	*0.314*	*0.201*
75 %		*0.577*	*0.566*	*0.540*	*0.527*	*0.518*	*0.275*	*0.261*	*0.156*
90 %		*0.517*	*0.512*	*0.501*	*0.496*	*0.493*	*0.235*	*0.229*	*0.128*

PEC_{sed} (µg/kg)	**Scenario**	**Step 4 propamocarb-hydrochloride**							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	R1 Stream	*1.18*	*1.14*	*1.13*	*1.13*	*1.12*	*0.519*	*0.514*	*0.274*
50 %		*1.15*	*1.13*	*1.12*	*1.12*	*1.12*	*0.511*	*0.509*	*0.270*
75 %		*1.13*	*1.12*	*1.12*	*1.12*	*1.12*	*0.507*	*0.506*	*0.268*
90 %		*1.12*	*1.12*	*1.12*	*1.12*	*1.12*	*0.505*	*0.504*	*0.266*
None	R2 Stream	*4.69*	*4.64*	*4.62*	*4.62*	*4.61*	*1.93*	*1.92*	*1.01*
50 %		*4.64*	*4.62*	*4.61*	*4.61*	*4.61*	*1.92*	*1.92*	*1.00*
75 %		*4.62*	*4.61*	*4.61*	*4.61*	*4.61*	*1.92*	*1.92*	*1.00*
90 %		*4.61*	*4.61*	*4.60*	*4.60*	*4.60*	*1.91*	*1.91*	*1.000*
None	R3 Stream	*13.2*	*13.0*	*12.9*	*12.9*	*12.9*	*5.14*	*5.11*	*2.69*
50 %		*13.0*	*12.9*	*12.9*	*12.9*	*12.8*	*5.10*	*5.09*	*2.67*
75 %		*12.9*	*12.9*	*12.8*	*12.8*	*12.8*	*5.08*	*5.08*	*2.66*
90 %		*12.9*	*12.8*	*12.8*	*12.8*	*12.8*	*5.07*	*5.07*	*2.65*

* Maximum values coming from multiple applications are marked in italics

Potatoes 1X - Early - 1 kg a.s./ha (DGR IV / PMT VII)

Table 9.2.5- 257: FOCUS Step 4 PECsed results for propamocarb-hydrochloride, GAP group name potatoes 1X, assessment name Early (DGR IV / PMT VII)

PEC_{sed} (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	1.92	0.667	0.365	0.254	0.196	0.365	0.254	0.196
50 %		0.995	0.345	0.189	0.132	0.101	0.189	0.132	0.101
75 %		0.516	0.179	0.098	0.068	0.052	0.098	0.068	0.052
90 %		0.216	0.075	0.041	0.028	0.022	0.041	0.028	0.022
None	D4 Pond	0.516	0.499	0.459	0.437	0.424	0.459	0.437	0.424
50 %		0.435	0.427	0.406	0.395	0.388	0.406	0.395	0.388
75 %		0.394	0.390	0.379	0.374	0.370	0.379	0.374	0.370
90 %		0.369	0.367	0.363	0.361	0.359	0.363	0.361	0.359
None	D4 Stream	0.212	0.210	0.209	0.208	0.208	0.209	0.208	0.208
50 %		0.210	0.209	0.208	0.208	0.208	0.208	0.208	0.208
75 %		0.209	0.208	0.208	0.208	0.208	0.208	0.208	0.208
90 %		0.208	0.208	0.208	0.208	0.208	0.208	0.208	0.208
None	D6 Ditch	1.17	0.408	0.228	0.162	0.127	0.228	0.162	0.127
50 %		0.606	0.216	0.123	0.090	0.072	0.123	0.090	0.072
75 %		0.317	0.117	0.070	0.053	0.044	0.070	0.053	0.044
90 %		0.139	0.056	0.037	0.033	0.033	0.037	0.033	0.033
None	D6 Ditch 2nd	0.864	0.357	0.346	0.342	0.340	0.346	0.342	0.340
50 %		0.446	0.346	0.340	0.338	0.337	0.340	0.338	0.337
75 %		0.351	0.340	0.337	0.336	0.335	0.337	0.336	0.335
90 %		0.341	0.336	0.335	0.335	0.334	0.335	0.335	0.334
None	R1 Pond	2.04	2.01	1.92	1.88	1.85	0.947	0.900	0.535
50 %		1.87	1.85	1.81	1.79	1.77	0.832	0.808	0.454
75 %		1.79	1.78	1.76	1.74	1.74	0.773	0.761	0.413
90 %		1.74	1.73	1.72	1.72	1.72	0.738	0.733	0.389
None	R1 Stream	6.96	6.91	6.89	6.88	6.88	2.86	2.85	1.51
50 %		6.91	6.89	6.88	6.87	6.87	2.85	2.85	1.50
75 %		6.89	6.88	6.87	6.87	6.87	2.84	2.84	1.50
90 %		6.88	6.87	6.87	6.87	6.87	2.84	2.84	1.49
None	R2 Stream	1.87	1.85	1.85	1.85	1.84	0.772	0.770	0.404
50 %		1.86	1.85	1.84	1.84	1.84	0.769	0.767	0.402
75 %		1.85	1.84	1.84	1.84	1.84	0.767	0.766	0.401
90 %		1.84	1.84	1.84	1.84	1.84	0.766	0.765	0.400
None	R3 Stream	1.48	1.40	1.38	1.37	1.36	0.658	0.648	0.352
50 %		1.41	1.38	1.36	1.36	1.35	0.642	0.637	0.343

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
75 %		1.38	1.36	1.35	1.35	1.35	0.633	0.631	0.339
90 %		1.36	1.35	1.35	1.35	1.35	0.628	0.627	0.336

Potatoes 1X - Late - 1 kg a.s./ha (DGR IV / PMT VIII)

Table 9.2.5- 258: FOCUS Step 4 PECsed results for propamocarb-hydrochloride, GAP group name potatoes 1X, assessment name Late (DGR IV / PMT VIII)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	1.97	0.685	0.376	0.262	0.202	0.376	0.262	0.202
50 %		1.02	0.355	0.194	0.135	0.104	0.194	0.135	0.104
75 %		0.530	0.184	0.101	0.070	0.054	0.101	0.070	0.054
90 %		0.222	0.077	0.042	0.029	0.023	0.042	0.029	0.023
None	D4 Pond	3.12	3.09	3.02	2.99	2.97	3.02	2.99	2.97
50 %		2.98	2.97	2.94	2.92	2.91	2.94	2.92	2.91
75 %		2.92	2.91	2.89	2.89	2.88	2.89	2.89	2.88
90 %		2.88	2.88	2.87	2.86	2.86	2.87	2.86	2.86
None	D4 Stream	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68
50 %		1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68
75 %		1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68
90 %		1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68
None	D6 Ditch	1.40	0.480	0.262	0.182	0.140	0.262	0.182	0.140
50 %		0.720	0.247	0.135	0.093	0.072	0.135	0.093	0.072
75 %		0.371	0.127	0.069	0.048	0.037	0.069	0.048	0.037
90 %		0.154	0.053	0.029	0.028	0.028	0.029	0.028	0.028
None	D6 Ditch 2nd	8.55	8.31	8.26	8.23	8.22	8.26	8.23	8.22
50 %		8.37	8.25	8.22	8.21	8.21	8.22	8.21	8.21
75 %		8.28	8.22	8.21	8.20	8.20	8.21	8.20	8.20
90 %		8.23	8.20	8.20	8.19	8.19	8.20	8.19	8.19
None	R1 Pond	0.399	0.359	0.280	0.250	0.231	0.263	0.213	0.180
50 %		0.247	0.235	0.206	0.191	0.181	0.137	0.120	0.094
75 %		0.189	0.183	0.168	0.161	0.156	0.097	0.089	0.058
90 %		0.154	0.152	0.146	0.143	0.141	0.073	0.070	0.041
None	R1 Stream	0.380	0.278	0.272	0.270	0.269	0.127	0.125	0.067

PEC_{sed} (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		0.281	0.272	0.269	0.268	0.267	0.123	0.122	0.065
75 %		0.273	0.269	0.267	0.266	0.266	0.122	0.121	0.064
90 %		0.268	0.267	0.266	0.266	0.265	0.120	0.120	0.064
None	R2 Stream	2.02	2.00	2.00	2.00	1.99	0.836	0.834	0.438
50 %		2.01	2.00	1.99	1.99	1.99	0.832	0.831	0.436
75 %		2.00	1.99	1.99	1.99	1.99	0.830	0.830	0.434
90 %		1.99	1.99	1.99	1.99	1.99	0.829	0.829	0.434
None	R3 Stream	7.03	6.88	6.83	6.81	6.80	2.76	2.74	1.45
50 %		6.90	6.83	6.80	6.79	6.78	2.73	2.72	1.43
75 %		6.84	6.80	6.78	6.78	6.77	2.71	2.71	1.42
90 %		6.79	6.78	6.77	6.77	6.77	2.70	2.70	1.42

III. Conclusion

Predicted environmental concentrations of the fungicide propamocarb-hydrochloride in surface water (PECsw) and sediment (PECsed) were calculated for the use in potatoes in Europe employing the tiered FOCUS Surface Water (SW) approach (FOCUS 2001, 2015). All relevant entry routes of a compound into surface water (principally a combination of spray drift and runoff/erosion or drain flow) were considered.

<u>Assessment and conclusion by applicant:</u>

The risk assessment report was conducted according to FOCUS (2001,2015) and is considered valid to assess predicted environmental concentrations in surface water (PEC_{SW}) and sediment (PECsed) for propamocarb-hydrochloride in potatoes.

Data Point:	KCP 9.2.5/08
Report Author:	[redacted]
Report Year:	2020
Report Title:	Propamocarb-hydrochloride (PCH): PECsw,sed FOCUS EUR - Use in leafy vegetables in Europe
Report No:	EnSa-20-0401
Document No:	M-687162-01-1
Guideline(s) followed in study:	not applicable
Deviations from current test guideline:	None
Previous evaluation:	No, not previously submitted
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

Executive Summary

Predicted environmental concentrations of the fungicide propamocarb-hydrochloride in surface water (PECsw) and sediment (PECsed) were calculated for the use in Europe, employing the tiered FOCUS Surface Water (SW) approach (FOCUS 2001, 2015). All relevant entry routes of a compound into surface water (principally a combination of spray drift and runoff/erosion or drain flow) were considered in these calculations.

The uses of propamocarb-hydrochloride in lettuce were assessed according to the Good Agricultural Practice (GAP) in Europe.

I. Materials and Methods

Intended GAPs for the use of propamocarb-hydrochloride in Europe were analysed and consolidated according to regulatory and modelling requirements. As a result, one or more uses may be covered by a single modelling GAP row (DGR). The translation of the regulatory GAP for modelling purposes is shown in Table 9.2.5-259.

Table 9.2.5-259: GAP translation for modelling purposes

GAP group ID	GAP group name (DGR) and use IDs	Covered crop(s)	Growth stage	Max. apps	Interval (days)	Rate (kg a.s./ha)
DGR I	lettuce	lettuce	BBCH 13 - 49	1	-	1 × 1
DGR II	lettuce	lettuce	BBCH 41 - 49	2	7	2 × 1

The implementation of the modelling GAP (Table 9.2.5-259) at Steps 1-2 level is shown in Table 9.2.5-260. One or more calculations (modelling tasks, PMT) are necessary to fully cover the use assessed. The number and name of the respective DGR is provided for easier reference.

Table 9.2.5- 260: FOCUS Steps 1-2 specific data for the GAPs assessed

Run IDs (DGR / PMT)	GAP group name (DGR)	Assessment name (PMT)	FOCUS crop (crop group)	Season	Crop cover
DGR I PMT I	lettuce	early	vegetables, leafy (arable crops)	spring (Mar. - May)	min crop cover
DGR I PMT II	lettuce	late	vegetables, leafy (arable crops)	summer (Jun. - Sep.)	full canopy
DGR II PMT III	lettuce	double	vegetables, leafy (arable crops)	summer (Jun. - Sep.)	full canopy

This section provides the implementation of the modelling GAP (Table 9.2.5-259) at Step 3 level. Also, here one or more calculations (modelling tasks, PMT) are necessary to fully cover the use assessed. The number and name of the respective DGR is provided for easier reference.

Please note that PMTs at Steps 1-2 and Step 3 do not necessarily fully correspond to each other due to inherent differences in the models.

The application dates for this assessment were set with the help of the tool AppDate (Klein 2018), which proposes dates for specific crop stages (given as BBCH code) based on the crop development as defined in the FOCUS model scenarios for groundwater and surface water.

The summary of all Step 3 PMTs is provided in Table 9.2.5- 261. The detailed information on individual uses is given in the tables that follow Table 9.2.5- 262 to Table 9.2.5- 267.

Table 9.2.5- 261: Overview of FOCUS Step 3 assessments

Run IDs (DGR / PMT)	GAP group name (DGR)	Assessment name (PMT)	FOCUS crop (crop group)
DGR I PMT I	Lettuce	Early	Vegetables, leafy (arable crops)
DGR I PMT II	Lettuce	Late	Vegetables, leafy (arable crops)
DGR II PMT III	Lettuce	Double	Vegetables, leafy (arable crops)

GAP group name lettuce, assessment name early

Table 9.2.5- 262: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Early	D3 Ditch	08-May - 07-Jun
	D3 Ditch (2nd)	17-Aug - 16-Sep
	D4 Pond/Stream	01-Jun - 01-Jul
	D6 Ditch	30-Aug - 29-Sep
	R1 Pond/Stream	03-May - 02-Jun
	R1 Pond/Stream (2nd)	12-Aug - 11-Sep
	R2 Stream	24-Mar - 23-Apr
	R2 Stream (2nd)	10-Aug - 09-Sep
	R3 Stream	20-Mar - 19-Apr
	R3 Stream (2nd)	02-Jul - 01-Aug
	R4 Stream	20-Mar - 19-Apr
	R4 Stream (2nd)	04-Jul - 03-Aug

Table 9.2.5- 263: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR 1 / PMT 1 Lettuce Early
FOCUS model crop (crop group)	Vegetables, leafy (arable crops)
Use pattern	1 kg a.s./ha
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	30 days for all scenarios (min = 30 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	08-May/07-Jun (128/158)	14-May	R1 Pond/Stream	03-May/02-Jun (123/153)	03-May
D3 Ditch (2nd)	17-Aug/16-Sep (229/259)	18-Aug	R1 Pond/Stream (2nd)	12-Aug/11-Sep (224/254)	20-Aug
D4 Pond/Stream	01-Jun/01-Jul (152/182)	01-Jun	R2 Stream	24-Mar/23-Apr (83/113)	22-Apr
D6 Ditch	30-Aug/29-Sep (242/272)	31-Aug	R2 Stream (2nd)	10-Aug/09-Sep (222/252)	10-Aug
			R3 Stream	20-Mar/19-Apr (79/109)	28-Mar
			R3 Stream (2nd)	02-Jul/01-Aug (183/213)	06-Jul
			R4 Stream	20-Mar/19-Apr (79/109)	03-Apr
			R4 Stream (2nd)	04-Jul/03-Aug (185/215)	12-Jul

GAP group name lettuce, assessment name late

Table 9.2.5- 264: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Late	D3 Ditch D3 Ditch (2nd) D4 Pond/Stream D6 Ditch R1 Pond/Stream R1 Pond/Stream (2nd) R2 Stream R2 Stream (2nd) R3 Stream R3 Stream (2nd) R4 Stream R4 Stream (2nd)	09-Jun - 16-Jul 09-Sep - 16-Oct 13-Aug - 19-Sep 18-Oct - 24-Nov 04-Jun - 11-Jul 04-Sep - 11-Oct 20-May - 26-Jun 01-Oct - 07-Nov 22-Apr - 29-May 06-Aug - 12-Sep 22-Apr - 29-May 06-Aug - 12-Sep

Table 9.2.5- 265: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR 1/ PMT 1I Lettuce Late
FOCUS model crop (crop group)	Vegetables, leafy (arable crops)
Use pattern	1 kg a.s./ha
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	37 days for all scenarios (min = 30 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	09-Jun/16-Jul (160/197)	14-Jun	R1 Pond/Stream	04-Jun/11-Jul (155/192)	29-Jun
D3 Ditch (2nd)	09-Sep/16-Oct (252/289)	17-Sep	R1 Pond/Stream (2nd)	04-Sep/11-Oct (247/284)	19-Sep
D4 Pond/Stream	13-Aug/19-Sep (225/262)	27-Aug	R2 Stream	20-May/26-Jun (140/177)	20-May
D6 Ditch	18-Oct/24-Nov (291/328)	18-Oct	R2 Stream (2nd)	01-Oct/07-Nov (274/311)	01-Oct
			R3 Stream	22-Apr/29-May (112/149)	22-Apr
			R3 Stream (2nd)	06-Aug/12-Sep (218/255)	28-Aug
			R4 Stream	22-Apr/29-May (112/149)	23-Apr
			R4 Stream (2nd)	06-Aug/12-Sep (218/255)	12-Aug

GAP group name lettuce, assessment name double

Table 9.2.5- 266: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Double	D3 Ditch D3 Ditch (2nd) D4 Pond/Stream D6 Ditch R1 Pond/Stream R1 Pond/Stream (2nd) R2 Stream R2 Stream (2nd) R3 Stream R3 Stream (2nd) R4 Stream R4 Stream (2nd)	09-Jun - 16-Jul 09-Sep - 16-Oct 13-Aug - 19-Sep 18-Oct - 24-Nov 04-Jun - 11-Jul 04-Sep - 11-Oct 20-May - 26-Jun 01-Oct - 07-Nov 22-Apr - 29-May 06-Aug - 12-Sep 22-Apr - 29-May 06-Aug - 12-Sep

Table 9.2.5- 267: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR II / PMT III Lettuce Double
FOCUS model crop (crop group)	Vegetables, leafy (arable crops)
Use pattern	2×1 kg a.s./ha, 7d int.
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	37 days for all scenarios (min = 37 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D3 Ditch	09-Jun/16-Jul (160/197)	14-Jun 25-Jun	R1 Pond/Stream	04-Jun/11-Jul (155/192)	29-Jun 11-Jul
D3 Ditch (2nd)	09-Sep/16-Oct (252/289)	17-Sep 24-Sep	R1 Pond/Stream (2nd)	04-Sep/11-Oct (247/284)	19-Sep 06-Oct
D4 Pond/Stream	13-Aug/19-Sep (225/262)	27-Aug 10-Sep	R2 Stream	20-May/26-Jun (140/177)	20-May 27-May
D6 Ditch	18-Oct/24-Nov (291/328)	18-Oct 25-Oct	R2 Stream (2nd)	01-Oct/07-Nov (274/311)	01-Oct 11-Oct
			R3 Stream	22-Apr/29-May (112/149)	22-Apr 18-May
			R3 Stream (2nd)	06-Aug/12-Sep (218/255)	07-Aug 19-Aug
			R4	22-Apr/29-May	23-Apr

			Stream	(112/149)	04-May
			R4 Stream (2nd)	06-Aug/12-Sep (218/255)	12-Aug 19-Aug

Steps 1-2 calculations were performed according to formulas implemented in FOCUS STEPS 1+2 version 3.2.

Step 3 calculations were performed using the FOCUS SWASH 5.3 suite, including
FOCUS PRZM 4.3.1
FOCUS MACRO 5.5.4
FOCUS TOXSWA 5.5.3

Refinement at Step 4 level was performed with the SWAN tool, version 5.0.1.

Standard procedures and settings were used for Steps 1-2 and 3 assessments. At Step 4 the following mitigation settings were used Table 9.2.5- 268 and Table 9.2.5- 269.

Table 9.2.5- 268: Mitigation approaches used

Buffer length	Mitigation type	Drift reduction nozzles
0 m	Spray drift	0 %, 50 %, 75 %, 90 %
5 m	Spray drift	
10 m	Spray drift & RunOff	
15 m	Spray drift & RunOff	
20 m	Spray drift & RunOff	

Table 9.2.5- 269: Runoff mitigation parameters used for the assessment

Fractional reduction in:	10 m, 15 m	20 m
Runoff: Volume	0.60	0.80
Flux	0.60	0.80
Erosion: Mass	0.85	0.95
Flux	0.85	0.95

Substance related parameters which have been used as input in the calculations are based on parameters whose derivation is taken from the EFSA LoEP [EFSA Scientific Report 87, 12 May 2006]. Calculations at FOCUS SW Steps 1-2 level are summarised in Table 9.2.5- 270 and at Step 3/4 level in Table 9.2.5- 271.

Table 9.2.5- 270: Substance parameters used at FOCUS Steps 1-2 level

Parameter	Unit	Propamocarb-hydrochloride PCH
Molar mass	(g/mol)	224.7
Water solubility	(mg/L)	100500
Koc	(mL/g)	263.6
Degradation		
Soil	(days)	13.91
Total system	(days)	18.3
Water	(days)	18.3
Sediment	(days)	1000
Max occurrence		
Water / sediment	(%)	100
Soil	(%)	100

Table 9.2.5- 271: Substance parameters used for propamocarb-hydrochloride at Step 3/4 level

Parameter	Unit	Parent
Substance SWASH code		Propamocarb-hydrochloride PCH
General		
Molar mass	(g/mol)	224.7
Water solubility (temp.)	(mg/L)	100500 (20 °C)
Vapour pressure (temp.)	(Pa)	8.1E-05 (25 °C)
Crop processes		
Coefficient for uptake by plant (TSCF)	(-)	0
Wash-off factor	(1/m)	50
Sorption		
K_{OC}	(mL/g)	263.6
K_{OM}	(mL/g)	152.9
Freundlich exponent ($^1/_n$)	(-)	0.867
Transformation		
DT50 in soil	(days)	13.91
temperature	(°C)	20
moisture content (pF)	(log(cm))	2
formation fraction in soil	(-)	-
DT50 in water	(days)	18.3
temperature	(°C)	20
formation fraction in water	(-)	-
DT50 in sediment	(days)	1000
temperature	(°C)	20
formation fraction in sediment	(-)	-
DT50 on canopy	(days)	10
Exponent for the effect of moisture		
PRZM and TOXSWA (Walker exp.)	(-)	0.7
MACRO (calibrated value)	(-)	0.49
Effect of temperature		
TOXSWA (molar activation energy)	(kJ/mol)	65.4
MACRO (effect of temperature)	(1/K)	0.0948
PRZM (Q_{10})	(-)	2.58

II. Results and Discussion

The PEC values were calculated for propamocarb-hydrochloride according to the equations implemented in the "STEPS 1-2 in FOCUS" calculator Table 9.2.5- 272 to Table 9.2.5- 274.

Lettuce - early – 1 × 1000g a.s./ha (DGR I / PMT I)

Table 9.2.5- 272: FOCUS Steps 1-2 PECsw and PECsed for propamocarb-hydrochloride, GAP group name lettuce, assessment name early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	256	RunOff	223	650
Step 2					
Northern Europe	Mar. - May(Spring)	36.8 *	RunOff	32.7	95.7 *
Southern Europe	Mar. - May(Spring)	67.2 *	RunOff	60.0	176 *

* Single applications are marked.
** TWA interval as required by ecotox

Lettuce - late – 1 × 1000g a.s./ha (DGR I / PMT II)

Table 9.2.5- 273: FOCUS Steps 1-2 PECsw and PECsed for propamocarb-hydrochloride, GAP group name lettuce, assessment name late (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	256	RunOff	223	650
Step 2					
Northern Europe	Jun. - Sep.(Summer)	18.7 *	RunOff	16.4	47.8 *
Southern Europe	Jun. - Sep.(Summer)	24.7 *	RunOff	21.8	63.8 *

* Single applications are marked.
** TWA interval as required by ecotox

Lettuce - double – 2 × 1000g a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 274: FOCUS Steps 1-2 PECsw and PECsed for propamocarb-hydrochloride, GAP group name lettuce, assessment name double (DGR II / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	512	RunOff	446	1300
Step 2					
Northern Europe	Jun. - Sep.(Summer)	31.1	RunOff	27.3	79.8
Southern Europe	Jun. - Sep.(Summer)	41.4	RunOff	36.6	107

* Single applications are marked.

** TWA interval as required by ecotox

Step 3 calculations were conducted for propamocarb-hydrochloride employing the models of the FOCUS SW suite. Reported values represent loadings *via* all relevant entry routes. are shown in Table 9.2.5- 275 to Table 9.2.5- 277.

Lettuce - early - 1 kg a.s./ha (DGR I / PMT I)

Table 9.2.5- 275: FOCUS Step 3 PECsw and PECsed for propamocarb-hydrochloride, GAP group name lettuce, assessment name early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*		Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*	
Step 3							
D3	Ditch	6.34	*	Spray drift	1.04	2.43	*
D3	Ditch 2nd	6.35	*	Spray drift	1.12	2.54	*
D4	Pond	0.220	*	Spray drift	0.192	0.459	*
D4	Stream	4.99	*	Spray drift	0.043	0.230	*
D6	Ditch	6.23	*	Spray drift	0.424	1.11	*
R1	Pond	0.564	*	RunOff	0.509	1.54	*
R1	Pond 2nd	0.448	*	RunOff	0.398	1.19	*
R1	Stream	8.84	*	RunOff	0.912	2.73	*
R1	Stream 2nd	5.75	*	RunOff	0.653	2.33	*
R2	Stream	5.53	*	Spray drift	0.325	1.68	*
R2	Stream 2nd	5.62	*	Spray drift	0.091	0.471	*
R3	Stream	9.07	*	RunOff	1.30	4.06	*
R3	Stream 2nd	15.3	*	RunOff	2.50	7.37	*
R4	Stream	23.4	*	RunOff	2.63	8.89	*
R4	Stream 2nd	20.0	*	RunOff	3.00	7.61	*

* Single applications are marked.
** TWA interval as required by ecotox

Lettuce - late - 1 kg a.s./ha (DGR I / PMT II)

Table 9.2.5- 276: FOCUS Step 3 PECsw and PECsed for propamocarb-hydrochloride, GAP group name lettuce, assessment name late (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*		Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*	
Step 3							
D3	Ditch	6.34	*	Spray drift	1.05	2.45	*
D3	Ditch 2nd	6.31	*	Spray drift	0.644	1.85	*
D4	Pond	0.810	*	Drainage	0.802	3.10	*
D4	Stream	4.53	*	Spray drift	0.657	1.69	*

Scenario FOCUS	Waterbody	Max PECsw (µg/L)*	Dominant entry route	7d-PECsw,twa (µg/L)**	Max PECsed (µg/kg)*
D6	Ditch	42.1 *	Drainage	15.6	19.2 *
R1	Pond	2.41 *	RunOff	2.09	4.63 *
R1	Pond 2nd	0.328 *	RunOff	0.304	1.65 *
R1	Stream	12.5 *	RunOff	2.71	7.53 *
R1	Stream 2nd	5.61 *	RunOff	0.467	1.51 *
R2	Stream	5.62 *	Spray drift	0.448	3.31 *
R2	Stream 2nd	6.33 *	RunOff	1.43	6.69 *
R3	Stream	5.91 *	Spray drift	0.769	1.88 *
R3	Stream 2nd	15.4 *	RunOff	1.98	7.82 *
R4	Stream	21.5 *	RunOff	2.53	8.29 *
R4	Stream 2nd	19.4 *	RunOff	2.32	7.60 *

* Single applications are marked.
** TWA interval as required by ecotox

<u>Lettuce - double – 2 × 1 kg a.s./ha, 7d int. (DGR II / PMT III)</u>

Table 9.2.5- 277: FOCUS Step 3 PECsw and PECsed for propamocarb-hydrochloride, GAP group name lettuce, assessment name double (DGR II / PMT III)

Scenario FOCUS	Waterbody	Max PECsw (µg/L)*	Dominant entry route	7d-PECsw,twa (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D3	Ditch	6.34 *	Spray drift	1.05	2.75
D3	Ditch 2nd	6.31 *	Spray drift	0.644	2.19
D4	Pond	2.53	Drainage	2.50	8.60
D4	Stream	4.53 *	Spray drift	2.37	4.82
D6	Ditch	125	Drainage	48.1	52.9
R1	Pond	3.44	RunOff	3.05	6.99
R1	Pond 2nd	1.08	RunOff	1.02	4.66
R1	Stream	21.0	RunOff	2.71	11.5
R1	Stream 2nd	16.8	RunOff	1.01	4.63
R2	Stream	8.18	Spray drift	1.26	8.05
R2	Stream 2nd	10.3	RunOff	1.49	8.99
R3	Stream	20.0	Spray drift	2.75	6.95
R3	Stream 2nd	20.7	RunOff	5.49	16.3
R4	Stream	30.7	RunOff	4.58	13.0
R4	Stream 2nd	29.8	RunOff	4.21	15.1

* Single applications are marked.
** TWA interval as required by ecotox

FOCUS Step 4 calculations considering various mitigation measures for runoff and spray drift were conducted based on the Step 3 results. This section provides the summary of results in tabular form. Where applicable, the maximum of single and multiple application uses are shown in Table 9.2.5- 278 to Table 9.2.5- 283.

Lettuce - early - 1 kg a.s./ha (DGR I / PMT I)

Table 9.2.5- 278: FOCUS Step 4 PECsw results for propamocarb-hydrochloride, GAP group name lettuce, assessment name early (DGR I / PMT I)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	6.34	1.72	0.912	0.623	0.474	0.912	0.623	0.474
50 %		3.17	0.859	0.456	0.311	0.237	0.456	0.311	0.237
75 %		1.59	0.430	0.228	0.156	0.118	0.228	0.156	0.118
90 %		0.634	0.172	0.091	0.062	0.047	0.091	0.062	0.047
None	D3 Ditch 2nd	6.35	1.72	0.912	0.623	0.474	0.912	0.623	0.474
50 %		3.17	0.860	0.456	0.312	0.237	0.456	0.312	0.237
75 %		1.59	0.430	0.228	0.156	0.119	0.228	0.156	0.119
90 %		0.635	0.172	0.091	0.062	0.047	0.091	0.062	0.047
None	D4 Pond	0.220	0.191	0.137	0.110	0.092	0.137	0.110	0.092
50 %		0.111	0.096	0.069	0.056	0.047	0.069	0.056	0.047
75 %		0.056	0.049	0.036	0.036	0.036	0.036	0.036	0.036
90 %		0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
None	D4 Stream	4.99	1.82	0.967	0.661	0.503	0.967	0.661	0.503
50 %		2.49	0.911	0.484	0.331	0.252	0.484	0.331	0.252
75 %		1.25	0.456	0.243	0.166	0.127	0.243	0.166	0.127
90 %		0.500	0.183	0.098	0.067	0.051	0.098	0.067	0.051
None	D6 Ditch	6.23	1.69	0.912	0.912	0.912	0.912	0.912	0.912
50 %		3.11	0.912	0.912	0.912	0.912	0.912	0.912	0.912
75 %		1.56	0.912	0.912	0.912	0.912	0.912	0.912	0.912
90 %		0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912
None	R1 Pond	0.564	0.550	0.525	0.512	0.504	0.250	0.237	0.136
50 %		0.513	0.506	0.494	0.487	0.483	0.218	0.212	0.115
75 %		0.488	0.484	0.478	0.475	0.473	0.202	0.199	0.104
90 %		0.472	0.471	0.468	0.467	0.466	0.193	0.191	0.098
None	R1 Pond 2nd	0.448	0.437	0.417	0.406	0.399	0.199	0.188	0.108
50 %		0.406	0.401	0.391	0.385	0.382	0.173	0.167	0.091
75 %		0.386	0.383	0.378	0.375	0.374	0.160	0.157	0.082
90 %		0.373	0.372	0.370	0.369	0.368	0.152	0.151	0.077
None	R1 Stream	8.84	8.84	8.84	8.84	8.84	4.01	4.01	2.10

PEC_{sw} (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		8.84	8.84	8.84	8.84	8.84	4.01	4.01	2.10
75 %		8.84	8.84	8.84	8.84	8.84	4.01	4.01	2.10
90 %		8.84	8.84	8.84	8.84	8.84	4.01	4.01	2.10
None	R1 Stream 2nd	5.75	5.75	5.75	5.75	5.75	2.61	2.61	1.37
50 %		5.75	5.75	5.75	5.75	5.75	2.61	2.61	1.37
75 %		5.75	5.75	5.75	5.75	5.75	2.61	2.61	1.37
90 %		5.75	5.75	5.75	5.75	5.75	2.61	2.61	1.37
None	R2 Stream	5.53	4.59	4.59	4.59	4.59	2.05	2.05	1.06
50 %		4.59	4.59	4.59	4.59	4.59	2.05	2.05	1.06
75 %		4.59	4.59	4.59	4.59	4.59	2.05	2.05	1.06
90 %		4.59	4.59	4.59	4.59	4.59	2.05	2.05	1.06
None	R2 Stream 2nd	5.62	2.05	1.09	0.744	0.566	1.09	0.744	0.566
50 %		2.81	1.03	0.544	0.372	0.346	0.544	0.372	0.283
75 %		1.41	0.513	0.346	0.346	0.346	0.272	0.186	0.141
90 %		0.562	0.346	0.346	0.346	0.346	0.155	0.155	0.081
None	R3 Stream	9.07	9.07	9.07	9.07	9.07	4.14	4.14	2.17
50 %		9.07	9.07	9.07	9.07	9.07	4.14	4.14	2.17
75 %		9.07	9.07	9.07	9.07	9.07	4.14	4.14	2.17
90 %		9.07	9.07	9.07	9.07	9.07	4.14	4.14	2.17
None	R3 Stream 2nd	15.3	15.3	15.3	15.3	15.3	6.97	6.97	3.65
50 %		15.3	15.3	15.3	15.3	15.3	6.97	6.97	3.65
75 %		15.3	15.3	15.3	15.3	15.3	6.97	6.97	3.65
90 %		15.3	15.3	15.3	15.3	15.3	6.97	6.97	3.65
None	R4 Stream	23.4	23.4	23.4	23.4	23.4	10.7	10.7	5.58
50 %		23.4	23.4	23.4	23.4	23.4	10.7	10.7	5.58
75 %		23.4	23.4	23.4	23.4	23.4	10.7	10.7	5.58
90 %		23.4	23.4	23.4	23.4	23.4	10.7	10.7	5.58
None	R4 Stream 2nd	20.0	20.0	20.0	20.0	20.0	9.10	9.10	4.77
50 %		20.0	20.0	20.0	20.0	20.0	9.10	9.10	4.77
75 %		20.0	20.0	20.0	20.0	20.0	9.10	9.10	4.77
90 %		20.0	20.0	20.0	20.0	20.0	9.10	9.10	4.77

Lettuce - late - 1 kg a.s./ha (DGR I / PMT II)

Table 9.2.5- 279: FOCUS Step 4 PECsw results for propamocarb-hydrochloride, GAP group name lettuce, assessment name late (DGR I / PMT II)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	6.34	1.72	0.912	0.623	0.474	0.912	0.623	0.474
50 %		3.17	0.860	0.456	0.311	0.237	0.456	0.311	0.237
75 %		1.59	0.430	0.228	0.156	0.118	0.228	0.156	0.118
90 %		0.634	0.172	0.091	0.062	0.047	0.091	0.062	0.047
None	D3 Ditch 2nd	6.31	1.71	0.907	0.620	0.472	0.907	0.620	0.472
50 %		3.16	0.855	0.454	0.310	0.236	0.454	0.310	0.236
75 %		1.58	0.428	0.227	0.155	0.118	0.227	0.155	0.118
90 %		0.631	0.171	0.091	0.062	0.047	0.091	0.062	0.047
None	D4 Pond	0.810	0.808	0.804	0.802	0.801	0.804	0.802	0.801
50 %		0.802	0.801	0.799	0.798	0.797	0.799	0.798	0.797
75 %		0.798	0.797	0.796	0.796	0.795	0.796	0.796	0.795
90 %		0.795	0.795	0.795	0.794	0.794	0.795	0.794	0.794
None	D4 Stream	4.53	1.67	0.919	0.919	0.919	0.919	0.919	0.919
50 %		2.27	0.919	0.919	0.919	0.919	0.919	0.919	0.919
75 %		1.14	0.919	0.919	0.919	0.919	0.919	0.919	0.919
90 %		0.919	0.919	0.919	0.919	0.919	0.919	0.919	0.919
None	D6 Ditch	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
50 %		42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
75 %		42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
90 %		42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
None	R1 Pond	2.41	2.39	2.36	2.34	2.33	1.01	0.994	0.524
50 %		2.34	2.34	2.32	2.31	2.30	0.968	0.959	0.494
75 %		2.31	2.31	2.30	2.29	2.29	0.947	0.942	0.480
90 %		2.29	2.29	2.28	2.28	2.28	0.934	0.932	0.471
None	R1 Pond 2nd	0.328	0.321	0.308	0.302	0.298	0.144	0.137	0.091
50 %		0.302	0.299	0.292	0.289	0.287	0.127	0.124	0.066
75 %		0.289	0.287	0.284	0.283	0.282	0.121	0.120	0.063
90 %		0.282	0.282	0.281	0.280	0.280	0.119	0.118	0.061
None	R1 Stream	12.5	12.5	12.5	12.5	12.5	5.62	5.62	2.93
50 %		12.5	12.5	12.5	12.5	12.5	5.62	5.62	2.93
75 %		12.5	12.5	12.5	12.5	12.5	5.62	5.62	2.93
90 %		12.5	12.5	12.5	12.5	12.5	5.62	5.62	2.93
None	R1 Stream 2nd	5.61	5.61	5.61	5.61	5.61	2.35	2.35	1.20
50 %		5.61	5.61	5.61	5.61	5.61	2.35	2.35	1.20

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
75 %		5.61	5.61	5.61	5.61	5.61	2.35	2.35	1.20
90 %		5.61	5.61	5.61	5.61	5.61	2.35	2.35	1.20
None	R2 Stream	5.62	2.90	2.90	2.90	2.90	1.32	1.32	0.691
50 %		2.90	2.90	2.90	2.90	2.90	1.32	1.32	0.691
75 %		2.90	2.90	2.90	2.90	2.90	1.32	1.32	0.691
90 %		2.90	2.90	2.90	2.90	2.90	1.32	1.32	0.691
None	R2 Stream 2nd	6.33	6.33	6.33	6.33	6.33	2.88	2.88	1.51
50 %		6.33	6.33	6.33	6.33	6.33	2.88	2.88	1.51
75 %		6.33	6.33	6.33	6.33	6.33	2.88	2.88	1.51
90 %		6.33	6.33	6.33	6.33	6.33	2.88	2.88	1.51
None	R3 Stream	5.91	5.63	5.63	5.63	5.63	2.46	2.46	1.27
50 %		5.63	5.63	5.63	5.63	5.63	2.46	2.46	1.27
75 %		5.63	5.63	5.63	5.63	5.63	2.46	2.46	1.27
90 %		5.63	5.63	5.63	5.63	5.63	2.46	2.46	1.27
None	R3 Stream 2nd	15.4	15.4	15.4	15.4	15.4	7.04	7.04	3.69
50 %		15.4	15.4	15.4	15.4	15.4	7.04	7.04	3.69
75 %		15.4	15.4	15.4	15.4	15.4	7.04	7.04	3.69
90 %		15.4	15.4	15.4	15.4	15.4	7.04	7.04	3.69
None	R4 Stream	21.5	21.5	21.5	21.5	21.5	9.78	9.78	5.13
50 %		21.5	21.5	21.5	21.5	21.5	9.78	9.78	5.13
75 %		21.5	21.5	21.5	21.5	21.5	9.78	9.78	5.13
90 %		21.5	21.5	21.5	21.5	21.5	9.78	9.78	5.13
None	R4 Stream 2nd	19.4	19.4	19.4	19.4	19.4	8.83	8.83	4.63
50 %		19.4	19.4	19.4	19.4	19.4	8.83	8.83	4.63
75 %		19.4	19.4	19.4	19.4	19.4	8.83	8.83	4.63
90 %		19.4	19.4	19.4	19.4	19.4	8.83	8.83	4.63

Lettuce - double – 2 × 1 kg a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 280: FOCUS Step 4 PECsw results for propamocarb-hydrochloride, GAP group name lettuce, assessment name double (DGR II / PMT III)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	6.34	1.72	0.912	0.623	0.474	0.912	0.623	0.474

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
50 %		3.17	0.860	0.456	0.311	0.237	0.456	0.311	0.237
75 %		1.59	0.430	0.228	0.156	0.118	0.228	0.156	0.118
90 %		0.634	0.172	0.091	0.062	0.047	0.091	0.062	0.047
None	D3 Ditch 2nd	6.31	1.71	0.907	0.620	0.472	0.907	0.620	0.472
50 %		3.16	0.855	0.454	0.310	0.236	0.454	0.310	0.236
75 %		1.58	0.428	0.227	0.155	0.118	0.227	0.155	0.118
90 %		0.631	0.171	0.091	0.062	0.047	0.091	0.062	0.047
None	D4 Pond	*2.53*	*2.52*	*2.51*	*2.51*	*2.51*	*2.51*	*2.51*	*2.51*
50 %		*2.51*	*2.51*	*2.50*	*2.50*	*2.50*	*2.50*	*2.50*	*2.50*
75 %		*2.50*	*2.50*	*2.50*	*2.50*	*2.50*	*2.50*	*2.50*	*2.50*
90 %		*2.50*	*2.49*	*2.49*	*2.49*	*2.49*	*2.49*	*2.49*	*2.49*
None	D4 Stream	4.53	*2.96*	*2.96*	*2.96*	*2.96*	*2.96*	*2.96*	*2.96*
50 %		*2.96*	*2.96*	*2.96*	*2.96*	*2.96*	*2.96*	*2.96*	*2.96*
75 %		*2.96*	*2.96*	*2.96*	*2.96*	*2.96*	*2.96*	*2.96*	*2.96*
90 %		*2.96*	*2.96*	*2.96*	*2.96*	*2.96*	*2.96*	*2.96*	*2.96*
None	D6 Ditch	*125*	*125*	*125*	*125*	*125*	*125*	*125*	*125*
50 %		*125*	*125*	*125*	*125*	*125*	*125*	*125*	*125*
75 %		*125*	*125*	*125*	*125*	*125*	*125*	*125*	*125*
90 %		*125*	*125*	*125*	*125*	*125*	*125*	*125*	*125*
None	R1 Pond	*3.44*	*3.41*	*3.36*	*3.33*	*3.31*	*1.44*	*1.41*	*0.744*
50 %		*3.34*	*3.32*	*3.29*	*3.28*	*3.27*	*1.38*	*1.36*	*0.701*
75 %		*3.28*	*3.28*	*3.26*	*3.26*	*3.25*	*1.34*	*1.34*	*0.679*
90 %		*3.25*	*3.25*	*3.24*	*3.24*	*3.24*	*1.32*	*1.32*	*0.666*
None	R1 Pond 2nd	*1.08*	*1.07*	*1.04*	*1.03*	*1.02*	*0.458*	*0.444*	*0.240*
50 %		*1.03*	*1.02*	*1.01*	*1.00*	*1.00*	*0.425*	*0.418*	*0.218*
75 %		*1.00*	*1.00*	*0.996*	*0.994*	*0.992*	*0.409*	*0.407*	*0.207*
90 %		*0.992*	*0.991*	*0.989*	*0.988*	*0.988*	*0.402*	*0.401*	*0.204*
None	R1 Stream	*21.0*	*21.0*	*21.0*	*21.0*	*21.0*	*9.56*	*9.56*	*5.01*
50 %		*21.0*	*21.0*	*21.0*	*21.0*	*21.0*	*9.56*	*9.56*	*5.01*
75 %		*21.0*	*21.0*	*21.0*	*21.0*	*21.0*	*9.56*	*9.56*	*5.01*
90 %		*21.0*	*21.0*	*21.0*	*21.0*	*21.0*	*9.56*	*9.56*	*5.01*
None	R1 Stream 2nd	*16.8*	*16.8*	*16.8*	*16.8*	*16.8*	*7.65*	*7.65*	*4.01*
50 %		*16.8*	*16.8*	*16.8*	*16.8*	*16.8*	*7.65*	*7.65*	*4.01*
75 %		*16.8*	*16.8*	*16.8*	*16.8*	*16.8*	*7.65*	*7.65*	*4.01*
90 %		*16.8*	*16.8*	*16.8*	*16.8*	*16.8*	*7.65*	*7.65*	*4.01*
None	R2 Stream	*8.18*	*8.18*	*8.18*	*8.18*	*8.18*	*3.72*	*3.72*	*1.95*
50 %		*8.18*	*8.18*	*8.18*	*8.18*	*8.18*	*3.72*	*3.72*	*1.95*

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
75 %		*8.18*	*8.18*	*8.18*	*8.18*	*8.18*	*3.72*	*3.72*	*1.95*
90 %		*8.18*	*8.18*	*8.18*	*8.18*	*8.18*	*3.72*	*3.72*	*1.95*
None	R2 Stream 2nd	*10.3*	*10.3*	*10.3*	*10.3*	*10.3*	*4.68*	*4.68*	*2.45*
50 %		*10.3*	*10.3*	*10.3*	*10.3*	*10.3*	*4.68*	*4.68*	*2.45*
75 %		*10.3*	*10.3*	*10.3*	*10.3*	*10.3*	*4.68*	*4.68*	*2.45*
90 %		*10.3*	*10.3*	*10.3*	*10.3*	*10.3*	*4.68*	*4.68*	*2.45*
None	R3 Stream	*20.0*	*20.0*	*20.0*	*20.0*	*20.0*	*9.10*	*9.10*	*4.76*
50 %		*20.0*	*20.0*	*20.0*	*20.0*	*20.0*	*9.10*	*9.10*	*4.76*
75 %		*20.0*	*20.0*	*20.0*	*20.0*	*20.0*	*9.10*	*9.10*	*4.76*
90 %		*20.0*	*20.0*	*20.0*	*20.0*	*20.0*	*9.10*	*9.10*	*4.76*
None	R3 Stream 2nd	*20.7*	*20.7*	*20.7*	*20.7*	*20.7*	*9.42*	*9.42*	*4.94*
50 %		*20.7*	*20.7*	*20.7*	*20.7*	*20.7*	*9.42*	*9.42*	*4.94*
75 %		*20.7*	*20.7*	*20.7*	*20.7*	*20.7*	*9.42*	*9.42*	*4.94*
90 %		*20.7*	*20.7*	*20.7*	*20.7*	*20.7*	*9.42*	*9.42*	*4.94*
None	R4 Stream	*30.7*	*30.7*	*30.7*	*30.7*	*30.7*	*13.9*	*13.9*	*7.28*
50 %		*30.7*	*30.7*	*30.7*	*30.7*	*30.7*	*13.9*	*13.9*	*7.28*
75 %		*30.7*	*30.7*	*30.7*	*30.7*	*30.7*	*13.9*	*13.9*	*7.28*
90 %		*30.7*	*30.7*	*30.7*	*30.7*	*30.7*	*13.9*	*13.9*	*7.28*
None	R4 Stream 2nd	*29.8*	*29.8*	*29.8*	*29.8*	*29.8*	*13.6*	*13.6*	*7.10*
50 %		*29.8*	*29.8*	*29.8*	*29.8*	*29.8*	*13.6*	*13.6*	*7.10*
75 %		*29.8*	*29.8*	*29.8*	*29.8*	*29.8*	*13.6*	*13.6*	*7.10*
90 %		*29.8*	*29.8*	*29.8*	*29.8*	*29.8*	*13.6*	*13.6*	*7.10*

* Maximum values coming from multiple applications are marked in italics

Parent substance propamocarb-hydrochloride

Lettuce - early - 1 kg a.s./ha (DGR I / PMT I)

Table 9.2.5- 281: FOCUS Step 4 PECsed results for propamocarb-hydrochloride, GAP group name lettuce, assessment name early (DGR I / PMT I)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	2.43	0.708	0.388	0.270	0.209	0.388	0.270	0.209
50 %		1.26	0.367	0.201	0.140	0.108	0.201	0.140	0.108
75 %		0.656	0.190	0.104	0.072	0.056	0.104	0.072	0.056

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
90 %		0.275	0.080	0.044	0.030	0.023	0.044	0.030	0.023
None	D3 Ditch 2nd	2.54	0.739	0.405	0.283	0.218	0.405	0.283	0.218
50 %		1.32	0.383	0.210	0.146	0.113	0.210	0.146	0.113
75 %		0.685	0.199	0.109	0.076	0.058	0.109	0.076	0.058
90 %		0.287	0.083	0.046	0.032	0.024	0.046	0.032	0.024
None	D4 Pond	0.459	0.403	0.300	0.260	0.246	0.300	0.260	0.246
50 %		0.261	0.250	0.228	0.217	0.210	0.228	0.217	0.210
75 %		0.217	0.211	0.201	0.195	0.191	0.201	0.195	0.191
90 %		0.191	0.188	0.184	0.181	0.180	0.184	0.181	0.180
None	D4 Stream	0.230	0.105	0.104	0.104	0.103	0.104	0.104	0.103
50 %		0.125	0.104	0.103	0.103	0.103	0.103	0.103	0.103
75 %		0.104	0.103	0.103	0.103	0.103	0.103	0.103	0.103
90 %		0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103
None	D6 Ditch	1.11	0.684	0.672	0.667	0.665	0.672	0.667	0.665
50 %		0.705	0.671	0.665	0.662	0.661	0.665	0.662	0.661
75 %		0.682	0.664	0.661	0.660	0.659	0.661	0.660	0.659
90 %		0.667	0.660	0.659	0.658	0.658	0.659	0.658	0.658
None	R1 Pond	1.54	1.49	1.39	1.34	1.31	0.749	0.697	0.437
50 %		1.34	1.32	1.27	1.24	1.23	0.620	0.593	0.347
75 %		1.25	1.23	1.21	1.20	1.19	0.555	0.541	0.302
90 %		1.19	1.18	1.17	1.17	1.16	0.515	0.510	0.274
None	R1 Pond 2nd	1.19	1.15	1.08	1.04	1.02	0.580	0.538	0.342
50 %		1.04	1.02	0.988	0.970	0.958	0.480	0.461	0.268
75 %		0.970	0.960	0.942	0.933	0.927	0.432	0.422	0.234
90 %		0.925	0.921	0.914	0.910	0.908	0.402	0.398	0.214
None	R1 Stream	2.73	2.69	2.69	2.68	2.68	1.24	1.23	0.659
50 %		2.70	2.68	2.68	2.68	2.68	1.23	1.23	0.656
75 %		2.69	2.68	2.68	2.68	2.68	1.23	1.23	0.655
90 %		2.68	2.68	2.68	2.68	2.68	1.23	1.23	0.654
None	R1 Stream 2nd	2.33	2.30	2.29	2.28	2.28	1.07	1.06	0.574
50 %		2.30	2.28	2.28	2.28	2.28	1.06	1.06	0.571
75 %		2.29	2.28	2.28	2.27	2.27	1.06	1.06	0.569
90 %		2.28	2.27	2.27	2.27	2.27	1.06	1.06	0.568
None	R2 Stream	1.68	1.65	1.65	1.65	1.65	0.681	0.679	0.356
50 %		1.66	1.65	1.64	1.64	1.64	0.678	0.677	0.354
75 %		1.65	1.64	1.64	1.64	1.64	0.676	0.675	0.353
90 %		1.65	1.64	1.64	1.64	1.64	0.675	0.674	0.352

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	R2 Stream 2nd	0.471	0.454	0.449	0.447	0.447	0.152	0.150	0.076
50 %		0.458	0.449	0.446	0.445	0.445	0.149	0.148	0.075
75 %		0.451	0.446	0.445	0.444	0.444	0.148	0.147	0.074
90 %		0.447	0.445	0.444	0.444	0.444	0.147	0.147	0.073
None	R3 Stream	4.06	3.98	3.96	3.95	3.94	1.85	1.84	0.997
50 %		4.00	3.95	3.94	3.94	3.94	1.83	1.83	0.990
75 %		3.96	3.94	3.94	3.93	3.93	1.83	1.82	0.986
90 %		3.94	3.93	3.93	3.93	3.93	1.82	1.82	0.984
None	R3 Stream 2nd	7.37	7.16	7.10	7.08	7.07	3.00	2.98	1.59
50 %		7.21	7.10	7.07	7.06	7.05	2.97	2.96	1.57
75 %		7.12	7.07	7.05	7.05	7.04	2.95	2.95	1.56
90 %		7.07	7.05	7.04	7.04	7.04	2.94	2.94	1.56
None	R4 Stream	8.89	8.83	8.82	8.81	8.81	4.06	4.06	2.18
50 %		8.85	8.81	8.81	8.80	8.80	4.05	4.05	2.18
75 %		8.82	8.80	8.80	8.80	8.80	4.05	4.05	2.17
90 %		8.81	8.80	8.80	8.80	8.80	4.04	4.04	2.17
None	R4 Stream 2nd	7.60	7.55	7.53	7.52	7.52	3.47	3.46	1.86
50 %		7.56	7.53	7.52	7.51	7.51	3.46	3.46	1.86
75 %		7.53	7.52	7.51	7.51	7.51	3.45	3.45	1.85
90 %		7.52	7.51	7.51	7.51	7.51	3.45	3.45	1.85

<u>**Lettuce - late - 1 kg a.s./ha (DGR I / PMT II)**</u>

Table 9.2.5- 282: FOCUS Step 4 PECsed results for propamocarb-hydrochloride, GAP group name lettuce, assessment name late (DGR I / PMT II)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	2.45	0.714	0.391	0.273	0.210	0.391	0.273	0.210
50 %		1.27	0.370	0.203	0.141	0.109	0.203	0.141	0.109
75 %		0.661	0.192	0.105	0.073	0.056	0.105	0.073	0.056
90 %		0.277	0.080	0.044	0.031	0.024	0.044	0.031	0.024
None	D3 Ditch 2nd	1.85	0.533	0.291	0.202	0.156	0.291	0.202	0.156
50 %		0.957	0.275	0.150	0.104	0.080	0.150	0.104	0.080
75 %		0.494	0.142	0.077	0.054	0.041	0.077	0.054	0.041

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
90 %		0.206	0.059	0.032	0.022	0.017	0.032	0.022	0.017
None	D4 Pond	3.10	3.07	3.00	2.97	2.95	3.00	2.97	2.95
50 %		2.97	2.95	2.92	2.90	2.89	2.92	2.90	2.89
75 %		2.90	2.89	2.87	2.87	2.86	2.87	2.87	2.86
90 %		2.86	2.86	2.85	2.85	2.84	2.85	2.85	2.84
None	D4 Stream	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69
50 %		1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69
75 %		1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69
90 %		1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69
None	D6 Ditch	19.2	19.1	19.1	19.1	19.1	19.1	19.1	19.1
50 %		19.2	19.1	19.1	19.1	19.1	19.1	19.1	19.1
75 %		19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
90 %		19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
None	R1 Pond	4.63	4.58	4.51	4.47	4.45	2.06	2.02	1.12
50 %		4.47	4.45	4.41	4.39	4.38	1.95	1.93	1.04
75 %		4.39	4.39	4.37	4.36	4.35	1.90	1.89	1.01
90 %		4.35	4.35	4.34	4.33	4.33	1.87	1.87	0.985
None	R1 Pond 2nd	1.65	1.60	1.51	1.47	1.44	0.802	0.754	0.463
50 %		1.47	1.45	1.40	1.38	1.37	0.684	0.661	0.381
75 %		1.38	1.37	1.35	1.34	1.33	0.626	0.614	0.341
90 %		1.33	1.32	1.31	1.31	1.31	0.591	0.586	0.316
None	R1 Stream	7.53	7.48	7.47	7.46	7.46	2.90	2.90	1.51
50 %		7.49	7.46	7.46	7.45	7.45	2.89	2.89	1.50
75 %		7.47	7.46	7.45	7.45	7.45	2.89	2.89	1.50
90 %		7.46	7.45	7.45	7.45	7.45	2.89	2.89	1.50
None	R1 Stream 2nd	1.51	1.48	1.47	1.47	1.47	0.678	0.675	0.361
50 %		1.49	1.47	1.47	1.47	1.46	0.673	0.671	0.358
75 %		1.47	1.47	1.46	1.46	1.46	0.670	0.669	0.357
90 %		1.47	1.46	1.46	1.46	1.46	0.668	0.668	0.356
None	R2 Stream	3.31	3.28	3.27	3.27	3.27	0.976	0.972	0.471
50 %		3.29	3.27	3.27	3.26	3.26	0.971	0.969	0.469
75 %		3.27	3.27	3.26	3.26	3.26	0.968	0.967	0.467
90 %		3.27	3.26	3.26	3.26	3.26	0.966	0.966	0.466
None	R2 Stream 2nd	6.69	6.66	6.65	6.64	6.64	2.15	2.14	1.06
50 %		6.66	6.64	6.64	6.64	6.64	2.14	2.14	1.06
75 %		6.65	6.64	6.64	6.64	6.64	2.14	2.14	1.06
90 %		6.64	6.64	6.64	6.63	6.63	2.13	2.13	1.06

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	R3 Stream	1.88	1.79	1.76	1.75	1.75	0.833	0.823	0.447
50 %		1.81	1.76	1.75	1.74	1.74	0.817	0.812	0.438
75 %		1.77	1.75	1.74	1.74	1.74	0.809	0.807	0.434
90 %		1.75	1.74	1.73	1.73	1.73	0.804	0.803	0.431
None	R3 Stream 2nd	7.82	7.65	7.61	7.59	7.58	2.90	2.88	1.50
50 %		7.69	7.60	7.58	7.57	7.56	2.87	2.86	1.49
75 %		7.62	7.58	7.56	7.56	7.56	2.86	2.85	1.48
90 %		7.58	7.56	7.55	7.55	7.55	2.85	2.85	1.47
None	R4 Stream	8.29	8.21	8.19	8.19	8.18	3.76	3.75	2.02
50 %		8.23	8.19	8.18	8.18	8.18	3.75	3.74	2.01
75 %		8.20	8.18	8.18	8.17	8.17	3.74	3.74	2.01
90 %		8.18	8.18	8.17	8.17	8.17	3.74	3.74	2.01
None	R4 Stream 2nd	7.60	7.52	7.50	7.49	7.49	3.43	3.42	1.84
50 %		7.54	7.50	7.49	7.48	7.48	3.42	3.42	1.83
75 %		7.51	7.49	7.48	7.48	7.48	3.41	3.41	1.83
90 %		7.49	7.48	7.48	7.48	7.48	3.41	3.41	1.83

Lettuce - double – 2 × 1 kg a.s./ha, 7d int. (DGR II / PMT III)

Table 9.2.5- 283: FOCUS Step 4 PECsed results for propamocarb-hydrochloride, GAP group name lettuce, assessment name double (DGR II / PMT III)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
None	D3 Ditch	*2.75*	*0.770*	*0.415*	*0.286*	*0.219*	*0.415*	*0.286*	*0.219*
50 %		*1.43*	*0.400*	*0.215*	*0.148*	*0.114*	*0.215*	*0.148*	*0.114*
75 %		*0.744*	*0.208*	*0.112*	*0.077*	*0.059*	*0.112*	*0.077*	*0.059*
90 %		*0.313*	*0.087*	*0.047*	*0.032*	*0.025*	*0.047*	*0.032*	*0.025*
None	D3 Ditch 2nd	*2.19*	*0.609*	*0.327*	*0.225*	*0.172*	*0.327*	*0.225*	*0.172*
50 %		*1.14*	*0.316*	*0.169*	*0.116*	*0.089*	*0.169*	*0.116*	*0.089*
75 %		*0.588*	*0.163*	*0.088*	*0.060*	*0.046*	*0.088*	*0.060*	*0.046*
90 %		*0.246*	*0.068*	*0.037*	*0.025*	*0.019*	*0.037*	*0.025*	*0.019*
None	D4 Pond	*8.60*	*8.53*	*8.42*	*8.36*	*8.32*	*8.42*	*8.36*	*8.32*
50 %		*8.37*	*8.34*	*8.28*	*8.25*	*8.23*	*8.28*	*8.25*	*8.23*
75 %		*8.26*	*8.24*	*8.21*	*8.20*	*8.19*	*8.21*	*8.20*	*8.19*
90 %		*8.19*	*8.18*	*8.17*	*8.16*	*8.16*	*8.17*	*8.16*	*8.16*
None	D4 Stream	*4.82*	*4.82*	*4.81*	*4.81*	*4.81*	*4.81*	*4.81*	*4.81*
50 %		*4.82*	*4.81*	*4.81*	*4.81*	*4.81*	*4.81*	*4.81*	*4.81*
75 %		*4.82*	*4.81*	*4.81*	*4.81*	*4.81*	*4.81*	*4.81*	*4.81*
90 %		*4.81*	*4.81*	*4.81*	*4.81*	*4.81*	*4.81*	*4.81*	*4.81*
None	D6 Ditch	*52.9*	*52.5*	*52.5*	*52.4*	*52.4*	*52.5*	*52.4*	*52.4*
50 %		*52.6*	*52.5*	*52.4*	*52.4*	*52.4*	*52.4*	*52.4*	*52.4*
75 %		*52.5*	*52.4*	*52.4*	*52.4*	*52.4*	*52.4*	*52.4*	*52.4*
90 %		*52.4*	*52.4*	*52.4*	*52.4*	*52.4*	*52.4*	*52.4*	*52.4*
None	R1 Pond	*6.99*	*6.92*	*6.80*	*6.74*	*6.70*	*3.09*	*3.02*	*1.67*
50 %		*6.75*	*6.71*	*6.65*	*6.62*	*6.60*	*2.93*	*2.89*	*1.56*
75 %		*6.62*	*6.61*	*6.57*	*6.56*	*6.55*	*2.85*	*2.83*	*1.50*
90 %		*6.55*	*6.54*	*6.53*	*6.52*	*6.52*	*2.80*	*2.79*	*1.47*
None	R1 Pond 2nd	*4.66*	*4.58*	*4.43*	*4.36*	*4.31*	*2.17*	*2.09*	*1.21*
50 %		*4.37*	*4.33*	*4.25*	*4.22*	*4.19*	*1.98*	*1.94*	*1.08*
75 %		*4.22*	*4.20*	*4.16*	*4.14*	*4.13*	*1.89*	*1.87*	*1.01*
90 %		*4.13*	*4.12*	*4.11*	*4.10*	*4.10*	*1.83*	*1.82*	*0.972*
None	R1 Stream	*11.5*	*11.4*	*11.4*	*11.4*	*11.4*	*4.13*	*4.12*	*2.11*
50 %		*11.4*	*11.4*	*11.4*	*11.4*	*11.4*	*4.12*	*4.11*	*2.10*
75 %		*11.4*	*11.4*	*11.4*	*11.4*	*11.4*	*4.11*	*4.11*	*2.10*
90 %		*11.4*	*11.4*	*11.4*	*11.4*	*11.4*	*4.11*	*4.11*	*2.10*
None	R1 Stream 2nd	*4.63*	*4.56*	*4.55*	*4.54*	*4.54*	*2.09*	*2.08*	*1.11*
50 %		*4.58*	*4.55*	*4.54*	*4.54*	*4.53*	*2.08*	*2.08*	*1.11*

PECsed (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None	None	None	None	None	10 m	10 m	20 m
	No spray buffer (m)	0 m	5 m	10 m	15 m	20 m	10 m	15 m	20 m
75 %		4.55	4.54	4.53	4.53	4.53	2.07	2.07	1.11
90 %		4.54	4.53	4.53	4.53	4.53	2.07	2.07	1.10
None	R2 Stream	8.05	7.99	7.97	7.97	7.97	2.49	2.49	1.22
50 %		8.00	7.97	7.96	7.96	7.96	2.48	2.48	1.22
75 %		7.98	7.96	7.96	7.96	7.96	2.48	2.48	1.22
90 %		7.97	7.96	7.96	7.96	7.96	2.47	2.47	1.21
None	R2 Stream 2nd	8.99	8.94	8.93	8.92	8.92	2.80	2.80	1.37
50 %		8.95	8.93	8.92	8.92	8.91	2.80	2.79	1.37
75 %		8.93	8.92	8.91	8.91	8.91	2.79	2.79	1.37
90 %		8.92	8.91	8.91	8.91	8.91	2.79	2.79	1.37
None	R3 Stream	6.95	6.73	6.66	6.64	6.63	3.09	3.07	1.66
50 %		6.78	6.66	6.63	6.62	6.61	3.06	3.05	1.64
75 %		6.69	6.63	6.61	6.61	6.60	3.04	3.03	1.63
90 %		6.63	6.61	6.60	6.60	6.60	3.03	3.03	1.63
None	R3 Stream 2nd	16.3	16.1	16.0	16.0	16.0	6.05	6.02	3.14
50 %		16.1	16.0	16.0	16.0	16.0	6.01	6.00	3.12
75 %		16.0	16.0	16.0	16.0	16.0	6.00	5.99	3.11
90 %		16.0	16.0	16.0	16.0	16.0	5.99	5.99	3.10
None	R4 Stream	13.0	13.0	12.9	12.9	12.9	5.86	5.85	3.14
50 %		13.0	12.9	12.9	12.9	12.9	5.85	5.84	3.13
75 %		12.9	12.9	12.9	12.9	12.9	5.84	5.84	3.13
90 %		12.9	12.9	12.9	12.9	12.9	5.84	5.84	3.13
None	R4 Stream 2nd	15.1	15.0	14.9	14.9	14.9	6.69	6.68	3.59
50 %		15.0	14.9	14.9	14.9	14.9	6.68	6.67	3.58
75 %		14.9	14.9	14.9	14.9	14.9	6.67	6.67	3.58
90 %		14.9	14.9	14.9	14.9	14.9	6.66	6.66	3.57

* Maximum values coming from multiple applications are marked in italics

III. Conclusion

Predicted environmental concentrations of the fungicide propamocarb-hydrochloride in surface water (PECsw) and sediment (PECsed) were calculated for the use in lettuce in Europe, employing the tiered FOCUS Surface Water (SW) approach (FOCUS 2001, 2015). All relevant entry routes of a compound into surface water (principally a combination of spray drift and runoff/erosion or drain flow) were considered.

Assessment and conclusion by applicant:

The risk assessment report was conducted according to FOCUS (2001,2015) and is considered valid to assess predicted environmental concentrations in surface water (PEC_{SW}) and sediment (PECsed) for propamocarb-hydrochloride in lettuce.

Data Point:	KCP 9.2.5/09
Report Author:	[redacted]
Report Year:	2020
Report Title:	Propamocarb-hydrochloride (PCH): PECsw,sed FOCUS EUR - Use in cucumbers in grenhouses in Europe
Report No:	EnSa-20-0481
Document No:	M-687164-01-1
Guideline(s) followed in study:	not applicable
Deviations from current test guideline:	None
Previous evaluation:	No, not previously submitted
GLP/Officially recognised testing facilities:	No, not conducted under GLP/Officially recognised testing facilities
Acceptability/Reliability:	Yes

Executive Summary

Predicted environmental concentrations of the fungicide propamocarb-hydrochloride in surface water (PECsw) and sediment (PECsed) were calculated for the use in Europe, employing the tiered FOCUS Surface Water (SW) approach (FOCUS 2001, 2015). All relevant entry routes of a compound into surface water (principally a combination of spray drift and runoff/erosion or drain flow) were considered in these calculations.

The uses of propamocarb-hydrochloride in green house cucumbers were assessed according to the Good Agricultural Practice (GAP) in Europe.

I. Materials and Methods

Intended GAPs for the use of propamocarb-hydrochloride in green house cucumbers in Europe were analysed and consolidated according to regulatory and modelling requirements. As a result, one or more uses may be covered by a single modelling GAP row (DGR). The translation of the regulatory GAP for modelling purposes is shown in Table 9.2.5-284.

Table 9.2.5-284: GAP translation for modelling purposes

GAP group ID	GAP group name (DGR) and use IDs	Covered crop(s)	Growth stage	Max. apps	Interval (days)	Rate (kg a.s./ha)
DGR I	cucumber	cucumber	BBCH 21 - 89	3	7	3 × 1

The implementation of the modelling GAP (Table 9.2.5-284) at Steps 1-2 level is shown in Table 9.2.5-285. One or more calculations (modelling tasks, PMT) are necessary to fully cover the use assessed. The number and name of the respective DGR is provided for easier reference.

Table 9.2.5- 285: FOCUS Steps 1-2 specific data for the GAPs assessed

Run IDs (DGR / PMT)	GAP group name (DGR)	Assessment name (PMT)	FOCUS crop (crop group)	Season	Crop cover
DGR I PMT I	cucumber	early	vegetables, fruiting (arable crops)	spring (Mar. - May)	full canopy
DGR I PMT II	cucumber	mid	vegetables, fruiting (arable crops)	summer (Jun. - Sep.)	full canopy
DGR I PMT III	cucumber	late	vegetables, fruiting (arable crops)	autumn (Oct. - Feb.)	full canopy

This section provides the implementation of the modelling GAP (Table 9.2.5-284) at Step 3 level. Also here one or more calculations (modelling tasks, PMT) are necessary to fully cover the use assessed. The number and name of the respective DGR is provided for easier reference.

Please note that PMTs at Steps 1-2 and Step 3 do not necessarily fully correspond to each other due to inherent differences in the models.

The application dates for this assessment were set with the help of the tool AppDate (Klein 2018), which proposes dates for specific crop stages (given as BBCH code) based on the crop development as defined in the FOCUS model scenarios for groundwater and surface water.

The summary of all Step 3 PMTs is provided in Table 9.2.5- 286. The detailed information on individual uses is given in tables Table 9.2.5- 287 to Table 9.2.5- 292.

Table 9.2.5- 286: Overview of FOCUS Step 3 assessments

Run IDs (DGR / PMT)	GAP group name (DGR)	Assessment name (PMT)	FOCUS crop (crop group)
DGR I PMT I	Cucumber	Early	Vegetables, fruiting (arable crops)
DGR I PMT II	Cucumber	Mid	Vegetables, fruiting (arable crops)
DGR I PMT III	Cucumber	Late	Vegetables, fruiting (arable crops)

<u>**GAP group name cucumber, assessment name early**</u>

Table 9.2.5- 287: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Early	D6 Ditch R2 Stream R3 Stream R4 Stream	01-Mar - 14-Apr 01-Mar - 14-Apr 01-Mar - 14-Apr 01-Mar - 14-Apr

Table 9.2.5- 288: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR I / PMT I Cucumber Early
FOCUS model crop (crop group)	Vegetables, fruiting (arable crops)
Use pattern	3×1 kg a.s./ha, 7d int.
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	44 days for all scenarios (min = 44 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D6 Ditch	01-Mar/14-Apr (60/104)	05-Mar 14-Mar 03-Apr	R2 Stream	01-Mar/14-Apr (60/104)	01-Mar 21-Mar 30-Mar
			R3 Stream	01-Mar/14-Apr (60/104)	01-Mar 10-Mar 28-Mar
			R4 Stream	01-Mar/14-Apr (60/104)	05-Mar 12-Mar 21-Mar

<u>**GAP group name cucumber, assessment name mid**</u>

Table 9.2.5- 289: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Mid	D6 Ditch R2 Stream R3 Stream R4 Stream	01-Jul - 14-Aug 01-Jul - 14-Aug 01-Jul - 14-Aug 01-Jul - 14-Aug

Table 9.2.5- 290: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR I / PMT II Cucumber Mid
FOCUS model crop (crop group)	Vegetables, fruiting (arable crops)
Use pattern	3×1 kg a.s./ha, 7d int.
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	44 days for all scenarios (min = 44 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D6 Ditch	01-Jul/14-Aug (182/226)	06-Jul 17-Jul 27-Jul	R2 Stream	01-Jul/14-Aug (182/226)	31-Jul 07-Aug 14-Aug
			R3 Stream	01-Jul/14-Aug (182/226)	11-Jul 18-Jul 30-Jul
			R4 Stream	01-Jul/14-Aug (182/226)	01-Jul 25-Jul 01-Aug

GAP group name cucumber, assessment name late

Table 9.2.5- 291: Summarised FOCUS Step 3 application data (PAT settings)

Assessment name	Scenario	Application window used in modelling
Late	D6 Ditch R2 Stream R3 Stream R4 Stream	01-Nov - 15-Dec 01-Nov - 15-Dec 01-Nov - 15-Dec 01-Nov - 15-Dec

Table 9.2.5- 292: Full FOCUS Step 3 application data

Run IDs **GAP group name (DGR)** **Assessment name (PMT)**	DGR I / PMT III Cucumber Late
FOCUS model crop (crop group)	Vegetables, fruiting (arable crops)
Use pattern	3×1 kg a.s./ha, 7d int.
Appl. method (Run-off CAM, depth inc.)	Ground spray (2 - appln foliar linear, 4 cm)
PAT start date (relative to crop event or absolute)	Absolute
PAT window range	44 days for all scenarios (min = 44 days)

Drainage scenarios	PAT start/end date (Julian day)	Application date	Runoff scenarios	PAT start/end date (Julian day)	Application date
D6 Ditch	01-Nov/15-Dec (305/349)	01-Nov 06-Dec 13-Dec	R2 Stream	01-Nov/15-Dec (305/349)	08-Nov 15-Nov 23-Nov
			R3 Stream	01-Nov/15-Dec (305/349)	15-Nov 22-Nov 05-Dec
			R4 Stream	01-Nov/15-Dec (305/349)	03-Nov 10-Nov 10-Dec

Steps 1-2 calculations were performed according to formulas implemented in FOCUS STEPS 1+2 version 3.2.

Step 3 calculations were performed using the FOCUS SWASH 5.3 suite, including

FOCUS PRZM 4.3.1
FOCUS MACRO 5.5.4
FOCUS TOXSWA 5.5.3

Refinement at Step 4 level was performed with the SWAN tool, version 5.0.1.

Standard procedures and settings were used for Steps 1-2 and 3 assessments. At Step 4 the following mitigation settings were used Table 9.2.5- 293.

Table 9.2.5- 293: Mitigation approaches used

Buffer length	Mitigation type	Drift reduction nozzles
0 m	Spray drift	0 %, 90 %, 95 %, 99 %

Substance related parameters which have been used for propamocarb-hydrochloride whose derivation is taken from the EFSA LoEP [EFSA Scientific Report 87, 12 May 2006]. Calculations at FOCUS SW Steps 1-2 level are summarised in Table 9.2.5- 294 and at Step 3/4 level in Table 9.2.5- 295.

Table 9.2.5- 294: Substance parameters used at FOCUS Steps 1-2 level

Parameter	Unit	Propamocarb-hydrochloride PCH
Molar mass	(g/mol)	224.7
Water solubility	(mg/L)	100500
Koc	(mL/g)	263.6
Degradation		
Soil	(days)	13.91
Total system	(days)	18.3
Water	(days)	18.3
Sediment	(days)	1000
Max occurrence		
Water / sediment	(%)	100
Soil	(%)	100

Table 9.2.5- 295: Substance parameters used for propamocarb-hydrochloride at Step 3/4 level

Parameter	Unit	Parent
Substance SWASH code		Propamocarb-hydrochloride PCH
General		
Molar mass	(g/mol)	224.7
Water solubility (temp.)	(mg/L)	100500 (20 °C)
Vapour pressure (temp.)	(Pa)	8.1E-05 (25 °C)
Crop processes		
Coefficient for uptake by plant (TSCF)	(-)	0
Wash-off factor	(1/m)	50
Sorption		
K_{OC}	(mL/g)	263.6
K_{OM}	(mL/g)	152.9
Freundlich exponent ($^{1}/_{n}$)	(-)	0.867
Transformation		
DT50 in soil	(days)	13.91
temperature	(°C)	20
moisture content (pF)	(log(cm))	2
formation fraction in soil	(-)	-
DT50 in water	(days)	18.3
temperature	(°C)	20
formation fraction in water	(-)	-
DT50 in sediment	(days)	1000
temperature	(°C)	20
formation fraction in sediment	(-)	-
DT50 on canopy	(days)	10

II. Results and Discussion

The PEC values were calculated for propamocarb-hydrochloride according to the equations implemented in the "STEPS 1-2 in FOCUS" calculator Table 9.2.5- 296 to Table 9.2.5- 298.

Cucumber - Early – 3 × 1000g a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 296: FOCUS Steps 1-2 PECsw and PECsed for propamocarb-hydrochloride, GAP group name cucumber, assessment name Early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	768	RunOff	668	1951
Step 2					
Northern Europe	Mar. - May(Spring)	38.5	RunOff	33.9	98.9
Southern Europe	Mar. - May(Spring)	65.2	RunOff	57.9	169

* Single applications are marked.
** TWA interval as required by ecotox

Cucumber - Mid – 3 × 1000g a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 297: FOCUS Steps 1-2 PECsw and PECsed for propamocarb-hydrochloride, GAP group name cucumber, assessment name Mid (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	768	RunOff	668	1951
Step 2					
Northern Europe	Jun. - Sep.(Summer)	38.5	RunOff	33.9	98.9
Southern Europe	Jun. - Sep.(Summer)	51.8	RunOff	45.9	134

* Single applications are marked.
** TWA interval as required by ecotox

Cucumber - Late – 3 × 1000g a.s./ha, 7d int. (DGR I / PMT III)

Table 9.2.5- 298: FOCUS Steps 1-2 PECsw and PECsed for propamocarb-hydrochloride, GAP group name cucumber, assessment name Late (DGR I / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 1	-	768	RunOff	668	1951
Step 2					
Northern Europe	Oct. - Feb.(Autumn)	78.6	RunOff	69.9	204
Southern Europe	Oct. - Feb.(Autumn)	65.2	RunOff	57.9	169

* Single applications are marked.
** TWA interval as required by ecotox

Step 3 calculations were conducted for propamocarb-hydrochloride employing the models of the FOCUS SW suite. Reported values represent loadings *via* all relevant entry routes are shown in Table 9.2.5- 299 to Table 9.2.5- 301.

Cucumber - Early – 3 × 1 kg a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 299: FOCUS Step 3 PECsw and PECsed for propamocarb-hydrochloride, GAP group name cucumber, assessment name Early (DGR I / PMT I)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D6	Ditch	6.33 *	Spray drift	0.959	2.60
R2	Stream	19.6	RunOff	4.35	25.6
R3	Stream	58.0	RunOff	6.33	21.9
R4	Stream	90.9	RunOff	5.89	16.6

* Single applications are marked.
** TWA interval as required by ecotox

Cucumber - Mid – 3 × 1 kg a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 300: FOCUS Step 3 PECsw and PECsed for propamocarb-hydrochloride, GAP group name cucumber, assessment name Mid (DGR I / PMT II)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D6	Ditch	6.29 *	Spray drift	0.502	1.59 *
R2	Stream	5.62 *	Spray drift	0.207	1.61
R3	Stream	23.2	RunOff	4.13	15.0
R4	Stream	47.0	RunOff	4.28	16.1

* Single applications are marked.
** TWA interval as required by ecotox

Cucumber - Late – 3 × 1 kg a.s./ha, 7d int. (DGR I / PMT III)

Table 9.2.5- 301: FOCUS Step 3 PECsw and PECsed for propamocarb-hydrochloride, GAP group name cucumber, assessment name Late (DGR I / PMT III)

Scenario FOCUS	Waterbody	Max PEC_{sw} (µg/L)*	Dominant entry route	7d-$PEC_{sw,twa}$ (µg/L)**	Max PECsed (µg/kg)*
Step 3					
D6	Ditch	62.9	Drainage	34.7	57.5
R2	Stream	21.6	RunOff	6.10	35.0
R3	Stream	68.3	RunOff	13.3	72.0
R4	Stream	97.9	RunOff	5.77	20.0

* Single applications are marked.
** TWA interval as required by ecotox

FOCUS Step 4 calculations considering various mitigation measures for runoff and spray drift were conducted based on the Step 3 results. This section provides the summary of results in tabular form.

Where applicable, the maximum of single and multiple application uses are shown in Table 9.2.5- 302 to Table 9.2.5- 307.

Cucumber - Early – 3 × 1 kg a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 302: FOCUS Step 4 PECsw results for propamocarb-hydrochloride, GAP group name cucumber, assessment name Early (DGR I / PMT I)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
None	D6 Ditch	6.33							
90 %		0.636							
95 %		0.320							
99 %		0.067							
None	R2 Stream	*19.6*							
90 %		*19.6*							
95 %		*19.6*							
99 %		*19.6*							
None	R3 Stream	*58.0*							
90 %		*58.0*							
95 %		*58.0*							
99 %		*58.0*							
None	R4 Stream	*90.9*							
90 %		*90.9*							
95 %		*90.9*							
99 %		*90.9*							

* Maximum values coming from multiple applications are marked in italics

Cucumber - Mid – 3 × 1 kg a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 303: FOCUS Step 4 PECsw results for propamocarb-hydrochloride, GAP group name cucumber, assessment name Mid (DGR I / PMT II)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
None	D6 Ditch	6.29							
90 %		0.629							
95 %		0.314							
99 %		*0.279*							

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
None	R2 Stream	5.62							
90 %		*0.790*							
95 %		*0.790*							
99 %		*0.790*							
None	R3 Stream	*23.2*							
90 %		*23.2*							
95 %		*23.2*							
99 %		*23.2*							
None	R4 Stream	*47.0*							
90 %		*47.0*							
95 %		*47.0*							
99 %		*47.0*							

* Maximum values coming from multiple applications are marked in italics

Cucumber - Late – 3 × 1 kg a.s./ha, 7d int. (DGR I / PMT III)

Table 9.2.5- 304: FOCUS Step 4 PECsw results for propamocarb-hydrochloride, GAP group name cucumber, assessment name Late (DGR I / PMT III)

PEC$_{sw}$ (µg/L)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
None	D6 Ditch	*62.9*							
90 %		*62.9*							
95 %		*62.9*							
99 %		*62.9*							
None	R2 Stream	*21.6*							
90 %		*21.6*							
95 %		*21.6*							
99 %		*21.6*							
None	R3 Stream	*68.3*							
90 %		*68.3*							
95 %		*68.3*							
99 %		*68.3*							
None	R4 Stream	*97.9*							
90 %		*97.9*							

PEC$_{sw}$ (µg/L)	**Scenario**	**Step 4 propamocarb-hydrochloride**							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
95 %		*97.9*							
99 %		*97.9*							

* Maximum values coming from multiple applications are marked in italics

Cucumber - Early – 3 × 1 kg a.s./ha, 7d int. (DGR I / PMT I)

Table 9.2.5- 305: FOCUS Step 4 PECsed results for propamocarb-hydrochloride, GAP group name cucumber, assessment name Early (DGR I / PMT I)

PEC$_{sed}$ (µg/kg)	**Scenario**	**Step 4 propamocarb-hydrochloride**							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
None	D6 Ditch	2.60							
90 %		*0.341*							
95 %		*0.203*							
99 %		*0.116*							
None	R2 Stream	*25.6*							
90 %		*25.5*							
95 %		*25.5*							
99 %		*25.5*							
None	R3 Stream	*21.9*							
90 %		*21.7*							
95 %		*21.7*							
99 %		*21.7*							
None	R4 Stream	*16.6*							
90 %		*16.4*							
95 %		*16.4*							
99 %		*16.4*							

* Maximum values coming from multiple applications are marked in italics

Cucumber - Mid – 3 × 1 kg a.s./ha, 7d int. (DGR I / PMT II)

Table 9.2.5- 306: FOCUS Step 4 PECsed results for propamocarb-hydrochloride, GAP group name cucumber, assessment name Mid (DGR I / PMT II)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride						
Nozzle reduction	Vegetated strip (m)	None						
	No spray buffer (m)	0 m						
None	D6 Ditch	1.59						
90 %		*0.271*						
95 %		*0.259*						
99 %		*0.250*						
None	R2 Stream	*1.61*						
90 %		*1.56*						
95 %		*1.56*						
99 %		*1.56*						
None	R3 Stream	*15.0*						
90 %		*14.7*						
95 %		*14.7*						
99 %		*14.7*						
None	R4 Stream	*16.1*						
90 %		*15.9*						
95 %		*15.9*						
99 %		*15.9*						

* Maximum values coming from multiple applications are marked in italics

Cucumber - Late – 3 × 1 kg a.s./ha, 7d int. (DGR I / PMT III)

Table 9.2.5- 307: FOCUS Step 4 PECsed results for propamocarb-hydrochloride, GAP group name cucumber, assessment name Late (DGR I / PMT III)

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride						
Nozzle reduction	Vegetated strip (m)	None						
	No spray buffer (m)	0 m						
None	D6 Ditch	*57.5*						
90 %		*54.7*						
95 %		*54.6*						
99 %		*54.4*						
None	R2 Stream	*35.0*						
90 %		*34.9*						

PEC$_{sed}$ (µg/kg)	Scenario	Step 4 propamocarb-hydrochloride							
Nozzle reduction	Vegetated strip (m)	None							
	No spray buffer (m)	0 m							
95 %		*34.9*							
99 %		*34.9*							
None	R3 Stream	*72.0*							
90 %		*71.9*							
95 %		*71.8*							
99 %		*71.8*							
None	R4 Stream	*20.0*							
90 %		*19.8*							
95 %		*19.8*							
99 %		*19.8*							

* Maximum values coming from multiple applications are marked in italics

III. Conclusion

Predicted environmental concentrations of the fungicide propamocarb-hydrochloride in surface water (PECsw) and sediment (PECsed) were calculated for the use in greenhouse cucumbers in Europe, employing the tiered FOCUS Surface Water (SW) approach (FOCUS 2001, 2015). All relevant entry routes of a compound into surface water (principally a combination of spray drift and runoff/erosion or drain flow) were considered.

<u>Assessment and conclusion by applicant:</u>

The risk assessment report was conducted according to FOCUS (2001,2015) and is considered valid to assess predicted environmental concentrations in surface water (PEC$_{SW}$) and sediment (PECsed) for propamocarb-hydrochloride in greenhouse cucumbers.

CP 9.3 Fate and behaviour in air

For information on the fate and behaviour in air please refer to Document MCA, Section 7.3.

CP 9.3.1 Route and rate of degradation in air and transport via air

For information on route and rate of degradation in air and transport via air please refer to Document MCA, Sections 7.3.1 and 7.3.2.

CP 9.4 Estimation of concentrations for other routes of exposure

There are no other routes of exposure if the product is used according to good agricultural practice. Therefore, no further estimations are considered necessary.