



Document Title

Summary of the Fate and Behaviour in the Environment Isoflucypram EC 59 (50 g/L) (Code: BCS-CN88460 EC 59)

Days Regulation (EC) No 1,487/2009 & Regulation (EU) No 284/2013

Discurrent WCP

Section 9: Fate and Behaviour in the Environment and coording to the Guidafee Dockment & ANCO/1018/2013 for applicants on preparing dossies for the appearant of a Chentical active substituce

Application (Crop Science Division





OWNERSHIP STATEMENT

This document, the data contained in it and copyright therein are owned by Bayer AG and or affiliated entities. No part of the document or any information contained therein may be disclosed to any third party without the prior written authorisation of Bayer AC and/or affiliated entities.

The summaries and evaluations contained in this document are based on inpublished proprietary data submitted for the purpose of the assessment undertaken by the regulatory authority. Other registration authorities should not grant, amend, or renew a registration on the • from Bayer AG or respective affiliate or
• from other applicants once the period of data perfection has expired. basis of the summaries and evaluation of unpublished proprietary data contained in this



Version history

Date [yyyy-mm-dd]	Data points containing amendments or additions ¹ and brief description	Document identifier a	achd
	-	Ž' (6''	Ô
			~ \$ T
		<u> </u>	

It is suggested that applicants adopt a similar approach to showing revision and version history association in SANCO/10180/2013 Chapter 4. How to revise an Association Report of the showing revision and version history association in SANCO/10180/2013 Chapter 4. How to revise an Association Report of the showing revision and version history association in SANCO/10180/2013 Chapter 4. How to revise an Association Report of the showing revision and version history association in SANCO/10180/2013 Chapter 4. How to revise an Association Report of the showing revision history association in SANCO/10180/2013 Chapter 4. How to revise an Association Report of the showing revision history association in SANCO/10180/2013 Chapter 4. How to revise an Association Report of the showing revision history association in SANCO/10180/2013 Chapter 4. How to revise an Association Report of the showing revision history as a showing revision hist The state of the s version have been a second of the second of



Table of Contents

				, Page
CP 9	FATE AND BEHAVIOUR IN THE ENV			50
CP 9.1	Fate and behaviour in soil		· . Z	. <u></u> 55
CP 9.1.1	Rate of degradation in soil		Ø*	5
CP 9.1.1.1	Laboratory studies		·····	50
CP 9.1.1.2	Field studies	%		`~j`
CP 9.1.1.2.1	Soil dissipation studies	ž	······¿Ö	
CP 9.1.1.2.2	Soil accumulation studies	······	S.	
CP 9.1.2	Mobility in the soil			,
CP 9.1.2.1	Laboratory studies		··Q*·····;	6
CP 9.1.2.2	Lysimeter studies	·····		6
	Field leaching studies		Q\	€6
CP 9.1.3	Estimation of concentrations is soil.	Ğ	Q'	47
CP 9.2	Fate and behaviour in water and sediment	/Q	\$ <u>0</u> `	97
CP 9.2.1	Aerobic mineralisation in surface water)	\$11
CP 9.2.2	Water/sediment study Q	`~``\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	····	11
CP 9.2.3	Aerobic mineralisation in surface water Water/sediment study	er	. Ş	₉ 11
CP 9.2.4	Estimation of concentrations in groundwat	er	J, J, V.	11
CP 9.2.4.1	Calculation of concentrations if ground wa	ter)	····້ວ	12
CP 9.2.4.2	Calculation of concentrations in ground was Additional field tests Sestimation of concentrations in surface was Fate and behaviour in air Sestimation of concentrations are said trees.	Ç?	>	22
CP 9.2.5	Estimation of concentrations in surface wa	iter and sediment	Q	22
CP 9.3	Fate and behavior in air		/········ /	56
CP 9.3.1	Route and rate of degradation in air and tra	ursport við air «J		56
CP 9.4	Estimation of concentrations for other rout	es of exposure		56
	Route and rate of degradation in air aird trace. Estimation of concentrations for other route.			



CP 9 FATE AND BEHAVIOUR IN THE ENVIRONMENT

INTRODUCTION

The purpose of this MCP-Dossier Section 9 is to support the approval process of the new active substance Isoflucypram in the territory of Europe under Regulation (EC) No 1107/2009

Isoflucypram EC 50 as the representative formulation is an envalsifiable concentrate (EC) containing 50 L/L Isoflucypram for use in cereal crops.

Isoflucypram is a novel broad spectrum fungicide of the chemical class of Nocyclopropyl-N-benzyl-pyrazole-carboxamides with an outstanding efficacy against the major economically important tongal diseases of cereal crops (wheat, triticale, rye, barley and oats) and excellent crop safety.

Since Isoflucypram is a SDH inhibitor and thus assigned to the FBAC resistance Group 7 the application scope of Isoflucypram-containing products on cereals with only one rolliar pray at a maximum of 75 g a.s./ha supports an effective anti-resistance management strategy.

Tailor-made and broad spectrum Isoffucypram combinations show highly beneficial properties in terms of plant physiology beside the long-lasting and certain curative efficacy to control fungal diseases and to maximize the full yield potential of the cereal crops.

This document summarises all data on the environmental date of soflucypram which are relevant for the approval of Isoflucypram alongside the proposed intended uses, including the representative uses, under Regulation (EC). No 1107/2009 in accordance with the requirements laid down in the Commission Regulation (EU) No 284/2013.

Details of the literature search undertaken for Boflucturant its metabolites and products have been summarized in the Document MCA Section 9.

Throughout the development of the formulation isoflucyprame EC 50 the following synonyms may have been used and referred to incindividual study reports: Bayer Code: BCS-CN88460 EC 50 and the Bayer-internal abbreviation short Code. ISY EC 50. All products described by either of these codes refer to the same formulation with identical composition.

The same applies for the metabolite BCS-CX88460 carboxylic acid for which the Bayer Code is BCS-CY26497 and the Bayer-internal short Code M12.

CP 9.1 Fate and behaviour in soil

For information on the fate and behaviour in soil please refer to Document MCA, Section 7, Point 7.1.

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, Point 7.2.

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, Point 7.1.2.2.

CP 9.1.1.2.1 Soil dissipation studies

For information on field dissipation studies please refer to Document MC Section 7, Point 7

CP 9.1.1.2.2 Soil accumulation studies

For information on field accumulation studies please referoto Point 7.1.2.2.2.

CP 9.1.2 Mobility in the soil

For information on mobility studies esperad Section 7, Point 7.1.3.

CP 9.1.2.1 Laboratory

ocument MCA, Section 7, Point 7.1.4.2.

ing studies phrase refer to Document MCA, Section 7, Point 7.1.4.3. For information on adsorption studies please refer to Dooument MC



CP 9.1.3 Estimation of concentrations in soil

Calculations of predicted environmental concentrations in soil (PEC_{soil}) are presented below.

Predicted environmental concentrations in soil (PECs)

Predicted environmental concentrat	ions in soil (PECs)	*	
Endpoints for PEC _{soil}		F	4 .40
Table 9.1.3- 1: Modelling input param carboxylic acid (M12)	eters for isoflucypram and i ්ථ	ts metabolite BCS-CN8	8460- 67 - 69 Q
Endpoint	Value used for modelling		3 2 5
Isoflucypram			Q O S
Molecular weight [g/mol]	399.85		
DT ₅₀ soil [days] (maximum lab., not-normalised)	630		
BCS-CN88460-carboxylic acid (M12)			
Molecular weight [g/mol]	429.8		4, 2
DT ₅₀ soil [days] (maximum lab., not-normalised)			
Max. occurrence in soil [%]	9.6		
Ø			<i>y</i>
PEC _{soil} modelling approach			
The predicted environmental concentration	ations in wil (PEC _{soil}) for t	he active substance isc	oflucypram and
its metabolite BCS-CN 88460-carboxy	vlic acid M12 were calcul	ated under the assump	tion of an even
distribution of the compound in the f	ner Or cm Spillawer A s	Mandard soil density of	1 5 g/cm ³ was

its metabolite BCS-CN 88460-carboxylic acid M12) were calculated under the assumption of an even distribution of the compound in the upper 0-3 cm soil layer. A standard soil density of 1.5 g/cm³ was assumed. Crop interception will reduce the amount of a compound reaching the soil and therefore this has been taken into account depending on the growth stage at application. The interception rates follow the recommendations of the FOCUS groundwater guidance paper FOCUS 2014a1) for cereals.

Predicted environmental concentrations in Soil (PEC

carboxytic acid (M12) was considered. For isofhacypram, the metabolite BO

Report: , W.; 2017; M-610061-01-1

IsoOucypram (ISY) and metabolite; PECsoil EUR - Use in cereals in Europe Title:

En Sa-17-9695 Report No.: ØM-610€61-01-€

Document No.: Guideline(s): Guideline deviation(s): GLP/GEP:

Methods and Materials: The predicted environmental concentrations in soil (PECsoil) of isoflucypram and its metabolite BCS-CN88460-carboxylic acid (M12) were calculated in a first tier approach using a Micros Excel spreadshee. The use of isoflucypram in cereals was assessed according to Good Agricultural Practice (GAP) ander European cropping conditions. Detailed application data used for simulation of PEC, were compiled in Table 9.1.3-2.

¹ FOCUS, 2014a: Generic Guidance for Tier 1 FOCUS Groundwater Assessments, version 2.2



Substance Specific Parameters: PEC_{soil} calculations were based on the DT₅₀ of 630 days (nonnormalised worst case of laboratory studies) for the parent compound isoflucypram.

Table 9.1.3- 2: Application pattern used for PECsoil calculations of isoflucypram

			App	lication		Amount &
Individual Crop	FOCUS crop used for Interception	Rate per Season	Interval	Plant Interception	BBCH Stage	reaching the soil perapplication
	_	[g a.s./ha]	[days] 🧖	🖒 [%] 🖞		[g a:s ha]
Cereals, early	Cereals	1 × 75	- L	80	30 - 39%	X 15 X
Cereals, late	Cereals	1 × 75		\$90° . @	40 49	0 1 7.5

Findings: The PECsoil values for isoflucypram and its metabolite BCS-CNSS460-carboxxlic acid (M12) are summarized in Table 9.1.3-3.

PECsoil of isoflucypram and its metabolite for the uses (cereals, early Table 9.1.3- 3: assessed

	ı		<u> </u>		
PEC _{soil} (mg/kg)		<u> </u>		Bes-CN88460-e	
		Ž " Šsofluc	pram V	B68-CN88460-	rboxylic acid (M12
		Actual 🍣	TWA	Actual 6	□ TWA
Initial	24 h	0.020 0.020 0.020 0.020	@ " "I"	, 90.002 ×	
Short term	24 h 🥍 🙎	0.020 0.020 0.020	y 020 🕸 `	0.002	y 0.002
	24 h	[™] 0. 6 20 ©	0.02Q	0,002	0.002
	4 g 🖓	0.020 0.020 0.020 0.020 0.020 0.019	\$\int 0.0 \go '	0,002	0.002
Long term	4 d d d d d d d d d d d d d d d d d d d	0.020	~ Q _9 20 _ @	0.002	0.002
	274 d 🔎 📗 🛴	0.020	29 .020	0.002 0.002 0.002 0.002	0.002
~0~	21 🗗 "	0.020 0.020 0.019	70.020 5 0.029 7 0.020	0.002	0.002
0,	2807	Ø.019 ≫	(\$\infty 0.02\text{9} \)	2 .002	0.002
, Ø	42°d	, © 0.01 <u>9</u>	× 000/20	0.002	0.002
	50 d 👸 📉	, 0.0009°	0.019	0.002	0.002
Short term Long term	1000	0.018	\bigcirc 0.019 \bigcirc 3	0.001	0.002
Plateau concentrati	is (20 cm) after <u>ye</u> ar 6	\$ 0.010 °		< 0.001	-
PECac (PEC _{so} + P	cumplation SECoil platean	0.030	, F - F	0.002	-
Plateau concentration (PECac (



Table 9.1.3- 4: PEC $_{soil}$ of isoflucypram and its metabolite for the uses (cereals, late, 1×75 g a.s./ha) assessed

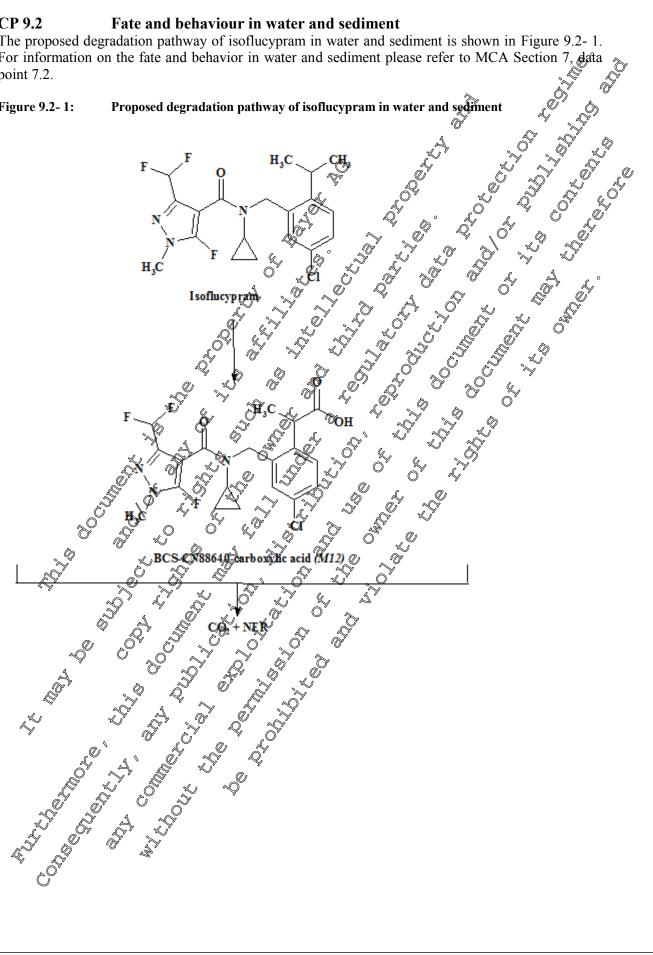
PEC _{soil} (mg/kg)		C	ereals	<i>\(\varphi\)</i>
**** (, 	Isoflu	cypram	BCS-CN88460-car	boxylic acid (14) 2) TW 0 0001 0.001 0.001 0.001 0.001 0.001
		Actual	TWA	Actual 💸	TWA
nitial		0.010	-	0.001	~- ~~
Short term	24 h	0.010	0.010	0.0011	0.001 0.001 0.001 0.001 0.001 0.001
	2 d	0.010	0.010	0.054	0.001 0.001 0.001 0.001 0.001 0.001 0.001
·	4 d	0.010	0.010	0001 Q001	
Long term	7 d 14 d	0.010 0.010	0.010	0.001 0.001 0.004 0.001	
				0.001	
	28 d	0.010	0.010	0-001	0.001
	42 d	0.010	0.010	9.001 m	0.001 0.001 0.001 0.001
	50 d	0.009	\$\ 9 , 0 10 , \$\\$	20.00° L	9.001 °°
	100 d	0.009	Ø.009 Č	0.00	0.001 0.001 0.001 0.001 0.001
Plateau concen	tration (20 cm)	0.005		0.001 0.001 0.001 0.001 0.001	0.001
	after year 6	0.003		7 0.0010	
PE	Caccumulation	0.605 12			
(PEC _{act}	+ PEC _{soil plateau})		0.010 0.010 0.010 0.009 0.009	C S S	<u>, </u>
				0.001 0.001 0.001 0.001 0.001	
	Z,				



CP 9.2 Fate and behaviour in water and sediment

The proposed degradation pathway of isoflucypram in water and sediment is shown in Figure 9.2-1. For information on the fate and behavior in water and sediment please refer to MCA Section 7, data point 7.2.

Figure 9.2-1:





CP 9.2.1 Aerobic mineralisation in surface water

For information on aerobic mineralisation in surface water studies please refer to Document CA Section 7, Point 7.2.2.2.

CP 9.2.2 Water/sediment study

For information on water/sediment studies please refer to Document MCA, Section Point 2.2.2

CP 9.2.3 Irradiated water/sediment/study

For information on irradiated water/sediment studies please refer to Document MCA, Section 7. Point 7.2.2.4.

CP 9.2.4 Estimation of concentrations in ground water

Calculations of predicted environmental concentrations in groundwater (PEC) are presented below

Endpoints for PECgw

Table 9.2.4-1: Modelling parameters for isothecypram and its metabolite BCS-CN88460-carboxylic acid (M12)

Compound	Soflucypram S	BCS-CN88460×carboxylic acid (M12)
Molecular mass (g/mol)	[L	429.8
Water solubility (mg/L)	1.8 (20\$)	10100 (20°C)
Saturated vapor	$\bigcirc \qquad \bigcirc \bigcirc 2 \times 10^{10}(20^{\circ}\text{CV}) \qquad \bigcirc \bigcirc$	2.6 × 10 ⁻¹³ (20°C)
pressure (Pa)		
DT ₅₀ in soil (d)	Tier 1: 314 geometric mean lab	Fier 1: 34.4 (geometric mean lab,
	r normalisation to pr2,20°C with Q of	© ormalisation to pF2, 20°C with Q ₁₀ of
	2.58 n = 7) 7	2.58, n=4)
	Fier 2: \$23 (geometric mean lab and field formalisation topF2, 20°C with	Tier 2: 84.1 (geometric mean lab and field, normalisation to pF2, 20°C with Q ₁₀ of
	Co of 2 St, n=1	2.58, n=10)
Transformation rate k	© Tier 1:0.0022075	Tier 1: 0.0201496
4	Tier\$. 0.0021460 @	Tier 2: 0.0082419
K _{foc} (mLe)/K _{fom}	7 Q 1580 Q 16.3 ~	37.1 / 21.5
	(geometric means n=7)	(geometric mean, pH 7.5 , $n = 2$)
1/n 😽	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0.9424
	(arithmetic mean, n = 7)	(arithmetic mean,
\$ 4		pH 7.5, n = 2)
Plant uptake sector	Default: Of Tier 1a, Tier 2)	Default: 0
	Briggs estimate: 0.10	
	(Tier 1b)	
Formation fraction		Tier 1: 0.345 from parent
	\$ Y	Tier 2: 0.043 from parent



PEC_{gw} modelling approach

The predicted environmental concentrations in groundwater (PEC_{gw}) for the active substance isoflucypram was calculated using the simulation models PEARL, PELMO and MACRO (scenario) Châteaudun) following the recommendations of the FOCUS working group on groundwater social actions of the FOCUS working group on groundwater social actions of the FOCUS working group on groundwater social actions of the FOCUS working group on groundwater social actions of the FOCUS working group on groundwater social actions of the FOCUS working group on groundwater social actions of the FOCUS working group on groundwater social actions of the FOCUS working group on groundwater social actions of the FOCUS working group on groundwater social actions of the FOCUS working group on groundwater social actions of the FOCUS working group on groundwater social actions of the FOCUS working group on groundwater social actions of the FOCUS working group on groundwater social actions of the FOCUS working group on groundwater social actions of the FOCUS working group on groundwater social actions of the FOCUS working group on groundwater social actions of the FOCUS working group on groundwater social actions of the FOCUS working group on groundwater social actions of the FOCUS working group on group of the FOCUS working group The leaching calculations were run over 26 years, as proposed for pesticides which may be applied every year. The first six years are a 'warm up' period; only the last 20 years were considered for the assessment of the leaching potential. The 80th percentile of the average annual ground water concentrations in the percolate at 1 m depth under a treated plantation were evaluated and were taken as the relevant PECgw values. In respect to the assessment of a potential groundwater contamination this shallow depth reflects a worst case. The effective long-term groundwater concentrations will be even lower due to dilution in the groundwater layer

According to FOCUS, the calculations were conducted based on mean soil half-lives, referenced to standard temperature and moisture conditions. Crop interception will reduce the amount of a compound reaching the soil and therefore this has been taken into account depending on the growth stage at application. The interception rates follow the recommendations of FOCS 2014a2 A summary of important substance input parameters is given in Table

Calculation of concentrations in ground **CP 9.2.4.1**

Predicted environmental concentrations in groundwater metabolite BCS-CN88460-carboxylic acid (M12).

For isoflucypram, the metabolite BCS-CN88460-carboxlin acid (M12) was considered.

, W\$2017; M-610062-01-1 Report:

Iso Oncypram (ISY) and metabolite, PECgo FOCOS PEARL, PELMO, MACRO Title:

EUR - Use in winter cereals and spring pereals in Europe

Report No. ÆnSa-1©≥0696⊗

Document No.:

Guideline(s):

Methods and Materials:

Predicted environments degradation Predicted environmental concentrations of the active substance isoflucypram and its major soil degradation products in groundwater recharge (PEC_{gw}) were calculated for the use in Europe, using the simulation models FQCUS PEARL 4.4.4 FOCUS PELMO 5.5.3 and FOCUS MACRO 5.5.4. PECgw were evaluated as the 80th 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 (2014) of isoflucypram in cereals was assessed according to Good Agricultural Practice (GAP) under European cropping conditions.

² FOCUS 014a: Generic Guidance for Tier 1 FOCUS Groundwater Assessments, version 2.2

FOCUS 2014b: Assessing Potential for Movement of Active Substances and their Metabolites to Ground Water in the EU: The Final Report of the Ground Water Work Group of FOCUS EC Document Reference: Sanco/13144/2010 3, 613 pp.



Detailed application data used for simulation of PEC_{gw} were compiled in Table 9.2.4.1-1.

Table 9.2.4.1-1: Application pattern used for PEC_{gw} calculations of isoflucypram

Стор	BBCH stage	Rate [g a.s./ha]	Interval [days]	FOCUS crop (crop group)	Plant Interception	Amount reaching the soil per application
Winter cereals, early		1 × 75		Winter cereals	© 80	
Winter cereals, late	20.60	1 × 75		Winter cereals	© * 90	10,7.5
Spring cereals, early	30-69	1 × 75		Spring cereals		∡1 × 15 ©
Spring cereals, late		1 × 75		Spring cereals/		0 1 × 105

Input parameters – tiered approach

For PEC_{gw} assessments a tiered approach was considered concorning the

- DT₅₀ values of isoflucypram and its metabolite BCS-CN88460-cathoxylic acid (M12)
- the formation fraction of BCS-CN \$460-carboxy for acid
- and the PUF values.

In Tier 1 laboratory data are considered for DF₅₀ values and formation fractions (Tier 1a), which can be modified by the PUF values (Tier 1b).

Field data are included in Tier 2 without a further modification by PUF walues

A detailed description of the parameters used at the different steps is presented in Table 9.2.4.1-2. More details on the selection of input parameter are given in the text below the table.

Table 9.2.4.1-2: Tiered approach for isoffurypram and its metabolite used for modelling

Compound		Tier 1ak			Tier 1b	J J		Tier 2	
	D T 50 (d)	ff (-)	PUF	DT50 (40)	ff (-)	F UF	DT50 (d)	ff (-)	PUF
Isoflucypratri	3 P	Ön.a.		3.14 ^{a)}	n.a. 🥎	0.1 ^{e)}	323 ^{b)}	n.a.	0.0 ^{d)}
BCS-CN 8460- carboxylic acid	34.4a)	0.3434	Dod	\$4.4°\;	0.343	$0.0^{e)}$	84.1 ^{b)}	0.043 ^{c)}	0.0 ^{d)}

a) From laboratory data

Rate of degradation of isofrucypoam and BCS CN88460-carboxylic acid (M12):

The geometric mean DV₀ values of 314 days and 34.4 days derived from laboratory degradation studies were used at Tier 1a and Tier to for soflucypram and BCS-CN88460-carboxylic acid (M12). Based on the EFSA endpoint selector (EFSA 2014⁴) degradation rates of isoflucypram and BCS-CN88460-carboxylic acid (M12) derived from laboratory and field degradation studies are not

b) From laboratory and field Qata

c) From field data

d) PUF representing worst case default

e) PUF based on Briggs equation

⁴ EFSA, 2014: EFSA Guidance Document for evaluating laboratory and field dissipation studies to obtain DegT₅₀ values of active substances of plant protection products and transformation products of these active substances in soil. 23.7.2014. EFSA Journal 2014; 12(5):3662.



systematically different and can therefore be pooled to derive a DegT_{50matrix} value for input into simulation models.

Consequently, the geometric mean DegT_{50matrix} values of 323 and 84.1 days for isoflucypram and BCS-CN88460-carboxylic acid (M12), respectively, derived from lab and field data (n=13) were used. for the leaching assessment at Tier 2.

Formation fraction of BCS-CN88460-carboxylic acid (M12)

A population test was conducted for the kinetic formation fraction (f. f. k_{dp}) of BS-CNS 460-60 carboxylic acid (M12). The arithmetic mean formation fraction in laboratory studies is 0.345 in = 50 whereas the arithmetic mean formation fraction in field rudies is 0.048 (n = 6). Based on the ERSA endpoint selector kinetic formation fraction of BCS-CN88460-carboxylic acid (M12) derived from laboratory and field degradation studies are systematically different

Consequently, the arithmetic mean value of 0.043 derived from field data was used for the leaching assessment at Tier 2.

Plant uptake (PUF/TSCF) of isoflucypram According to EFSA (20135), the use of a worst case default Transpiration Stream Concentration Factor (TSCF) of 0 in the leaching assessment is recommended as a first step.

As a second step EFSA (2013) propose the use of a PSCF derived from the equation given by Briggs et al (1982⁶), based on the relationship between plant uptake and octavol water partition coefficient. This is also in line with the approach recommended by FOCUS (20146).

The Briggs estimation leads to a TSCF of 0.16 for isoflucy from which was used as refined input for

Input parameters for isofficeypram and its metabolites were used as summarised in Table 9.2.4.1-3.

⁵ EFSA 203: Scientific Opinion on the report of the FOCUS groundwater working groups (FOCUS 2009): assessment of higher tiers, EFSA Journal 2013; 1(6):3291.

⁶ Briggs G.G., Bromilow, R.H., and Evans A.A., 1982: Relationships between lipophilicity and root uptake and translocation of non-ionized chemicals by barley. Pestic. Sci. 13, 495-504.



Table 9.2.4.1-3: Compound input parameters for isoflucypram and its metabolite BCS-CN88460carboxylic acid (M12)

Parameter	Unit	Isoflucypram	BCS-CN88460-carboxylic acid (M2)
Common			No.
Molar mass	(g/mol)	399.85	~429.8 @ ~
Solubility	(mg/L)	1.8	\$ 10100
Vapour pressure	(Pa)	1.20E-07	2.60E-13 0.9424 0.00
Freundlich exponent	(-)	0.9142	0.9424 0
Plant uptake factor	(-)	0 ^C /0.1 ^D	
Walker exponent	(-)	0.7	0.9424 O'
PEARL parameters		.	
Substance code	(-)	IS	ØM12 ♥ Ø Ø
DT_{50}	(days)	314 ^A -323 ^B	OM12 V OV OF STATE OF
Molar activ. energy	(kJ/mol)	Ø5.4 ×	
K _{OM}	(mL/g)	916.3	
PELMO parameters			
Substance code	(-)	AS O	TO ALT AT
Rate constant	(1/day)	0.0022075, 0.0021460 ^B	0.026 496 ^A /0.0082 19 ^B
Q_{10}	(-)	2.5	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Koc	(mL/g)	1580 S	Ø37.1 ©
MACRO parameters	₆ O		
Substance code	(-)	ISY SY	
Exponent moisture	(-)	Q Q 0.49Q 5	M2
Exponent temperature	(1/4K) %	0.0948	© 00.0948√

A Value used in tier 1a and 1b (from Jaboratory data)

Degradation pathway related parameter for isoflucypeam and its metabolite BCS-CN88460 carboxylic acid (M12)

Tier 1: Degradation fraction from \Rightarrow to
Ther 1:
(-) (FOCUS PEARL)
Tier 2: ISY → MOZ: 0.049 O Degradation fraction from → to O (-) (FOCUS PEARL)
Degradation fraction from $\rightarrow tb$
(-) (FOCUS PEARLY O O S
Tier 1: Active Substance \$\infty A1: 7.62E-04
Degradation rate from to Substance BR/CO2: 0.0014459
(1/day) (FOCUS PELMO) (1/day)
Tier 2: Acfrye Substance -> A1: 9.23E-05
Degradation rate from to Active Substance -> BR/CO2: 0.0020537
Tier Y: MSY M12: 0.3708416
Conversion factor from → to 🎺 🍭 🗇
(-) (FOCUS MACRO) (FOCUS MACRO)
Tier 2: S S S S S S S S S S S S S S S S S S
Conversion Yactor From You "
Tier Y: (-) (FOCUS MACRO) A Tier 2: Conversion factor from \rightarrow to (-) (FOCUS MACRO) A (-) (FOCUS MACRO) B (-) (FOCUS MACRO) B (-) (FOCUS MACRO) B (-) (FOCUS MACRO) B

B Refined values used in tier 1a and 1b (from Jaboratory data)

C Value used in tier 1a, tier 2 (RUF representing worst care default)

D Value used in tier 1b (PUF based on Briggs equation)

A Calculated as In(2) / D(150 × formation fraction

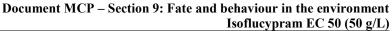
B Calculated as molar mass / molar mass predecessor × formation fraction



Application dates for the simulation runs were defined following the crop event dates of the respective crop and scenario (see Table 9.2.4.1-5) as given by FOCUS (2014b). Crop interception was taken into account according to the BBCH growth stage, as recommended by FOCUS (2014a).

First application dates and related information for isofluctoram as used for the Table 9.2.4.1- 5:

	The provided for t	Tops with two sea	ISUIIS		
Individual crop	simulation runs; of are provided for comments. Winter cereals, early	Winter cereals, late	Spring cereals,	Spring cereals late	two sets of Chita
Repeat interval for app. events	Every Year	Every Year	Every Year	Every Year	
Application technique	Spray	Spray 🗳	Spray S	Spray	
Absolute / Relative	Absolute	Absorate &	Actsolute 7	Absolue	
Scenario	1 st app. date (Julian day) Offset	L ⁱ app tate Vulian day) Offset	Ist appodate ((Jukian day) Offset	1st app. date (Indian day) Officet	
	21 Apr (111)	14 Jun (165)	10 Aspr (1000)	22 Jun 5 (173)	
	19 Apr (109)	29Jun (173) (7	28 Apt (118) (118) (118) (118)	28 Jun 7 (479) 7 - 7	*
	25 May (14%)	5 10 0 ul (191) 5	©5 Junk (156)	17 Joh (198)	
	(109) Apr. (109)	22 Jun (178)	28 Apr (118)	②28 Jun (179)	
	15 Apr (105) 4	(138)	\$\frac{22}{4}\text{Apr} \times \text{412}	18 Jun (169)	
	10 Apr (100)	May (145)		- - -	
	30 Mar	24 May 5	% (106)	- 22 Jun (173)	
	06 Jan	28 Mar 4	- - -	-	
	Mar y	27 A	- - -	- - -	
	(61)	(M7) F	-	-	
		~Ç			





Findings:

PEC_{gw} were evaluated as the 80th percentile of the mean annual leachate at 1 m soil depth PEC_{gw} values for isoflucypram and its metabolite BCS-CN88460-carboxylic acid are given in the following tables.

<u>Tier 1a</u> - DT₅₀ soil and formation fraction based on <u>laboratory data</u>. <u>Default</u> used for <u>P</u>VI

Tier 1 a - FOCUS PEARL, PELMO and MACRO PECgw results of isoflue pramand itso **Table 9.2.4.1-6:**

				@ V	, v	
Crop	Scenario	80th percentile PECgw at Jun soil depth (ag/L)				
		Isoflucyp	<i>√</i> // ₀	BCS-CN8846	0-carboxylic a	
		PEARL Q	PELMO	P EARL	PEL	MO V
Winter cereals, early		<0.001 <0.001 <0.001 <0.001 <0.001 <0.0000 <0.0000 <0.0001	9.001 0.001 0.001 0.001 0.001	0.065 0.070 0.098 0.952 0.057 0.004 0.013	0.0 0.0 0.0 0.0	24 77 775 10 74 90 90
Winter cereals, early		MAOR			MA©RO 50.026	

Tier Va - FOCUS PEARL, PELMO and MACRO PEC results of isoflucypram and its metabolite (winter cereals, late 1/4 × 75 g a.s./ha, 90% interception)

Crop	Scenario	80 percentile PECgw and m soil depth (μg/L)				
Crop		Isofluc	ypram N	BCS-CN88460-ca	arboxylic acid (M12)	
·		PEARL	PELMO	PEARL	PELMO	
Winter cereals,		9.001	<0.00	0.013	0.011	
late		° (~0.000)	O < 0.000 1	0.056	0.058	
~ ~ ~		<0.001	[≫] ~@2001	0.030	0.035	
4		ଠି <ୟ•େ001 ଔ	@ 0.001	0.033	0.035	
		Ø.001	<0.001	0.046	0.052	
		~y<0.00€°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	©″<0.001	0.024	0.036	
4		0 <0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	< 0.001	0.028	0.044	
, A		<0.001 °C	< 0.001	0.002	0.003	
		0.001	< 0.001	0.007	0.006	
		√ √ MAC	CRO	MA	ACRO	
Winter celeals, late		<0.0	001	0	.012	



Table 9.2.4.1-8: Tier 1 a - FOCUS PEARL, PELMO and MACRO PEC_{gw} results of isoflucypram and its metabolite (<u>spring cereals, early</u>, 1 × 75 g a.s./ha, 80% interception)

Crop	Scenario	80	th (µg/L)		
		Isoflucypram		BCS-CN88469-	carboxylic acid (M42)
		PEARL	PELMO	PEAR	DELMO
Spring cereals, early	Ŧ	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<0.000 <0.001 <0.001 <0.001 <0.001 <0.001	0.072 0.072	0.019 0.016 0.064 0.069 0.104 0.082
		4	CRO S	1 Al	FACRO A
Spring cereals, early			991		0.025

Table 9.2.4.1-9: Tier 1 a - FOCUS PEARE, PELMO and MACRO PROgw results of isoflucy pram and its metabolite (spring coreals, tate, 1 575 g as ha, 90% interception)

Crop			Q. 0	, N
- I	Scenario 🍣	80th percentile PE	CgWat 1 mosoil dept	h (μ g /Ľ)
	, Sq.	PEARL PELANO O 001	BCS-CN88460-	arboxylic acid (M12
	<u> </u>	PEARLO PELMO	PÆARL S	PELMO
Spring cereals,		PEARL PELMO O 001 O 001 O 0001 O 0001 O 0001 O 0001 O 0001 O 0001	0.012 V 0.064 0.030	0.009
late		~ < 6 .001 ~ 0.001	0.012 0.064 0.030 0.033 0.047	0.054
		< 0.001	0.030	0.029
<i>(</i>		0<0.0010 <00001	0.030 0.033 0.047 0.032	0.032
Ò		<0.001	0.047	0.049
		J. 40001 O. 0010 C. 00010 C. 0	0.032	0.040
			M	ACRO
Spring cereals, late		7 40:001 O		0.012
Ž,		0.001 0.0001 0.0001 0.001 0.001 0.001 0.001 0.001 0.001		



Tier 1b - DT₅₀ soil and formation fraction based on <u>laboratory data</u>. PUF based on <u>Briggs</u> equation used for isoflucypram and <u>default PUF</u> used for BCS-CN88460-carboxylic acid (M12).

Table 9.2.4.1- 10: Tier 1 b - FOCUS PEARL, PELMO and MACRO PEC_{gw} results of isoflucypram and its metabolite (winter cereals, early, 1 × 75 g a.s./ha, 80% interception)

Crop	Scenario	80 th percentile PEC _{gw} at 1 m soil depth (μg/L)				
		Isoflucypram 💍		BCS-C\\ 8846	0-carboxylic acid (M12)	
		PEARL	PELMO	FEARL	PELMO	
Winter cereals, early	Ŧ	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	(0.001 (0.001 (0.001 (0.001 (0.004 (0.001 (0.001 (0.001 (0.001 (0.001 (0.001 (0.001 (0.001	0.098 0.052 0.057 0.0047	0.023 0.123 0.077 0.074 0.109 0.089 0.089 0.006	
Winter		Q MA	RO & S	0.003	MACRO S	
cereals, early			4, 2, 4			

Table 9.2.4.1-11: Tier 1 b - FOCUS PEARL PELMO and MACRO PECgw results of isoflucypram and its metabolite (winter cereals, late 1 × 75 g a.s./ha, 90% interception)

				0. 4	
Crop	Scenario	80 th	percentile BEC	Cgw at 1 m sol depth	n (μg/L)
	Scenario	Isoflucypram .		C _{gw} at 1 m sød deptl	rboxylic acid (M12)
		PEARL	PELMO	PEARL	PELMO
Winter cereals, late		0.001 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.0001	<0.000 <0.001	0.013	0.011
late 😽		~ ~0.0 00 * ~	0.001 × 0.001 ×	0.056	0.058
	3	<0.000 <0.001 <0.001 <0.001	∞ 2001 △	0.030	0.035
		V″ ≪0,001 √0″	₹0.00	0.032	0.035
		©0.001	\$\sqrt{0.06}\tag{7}	0.046	0.052
~		~ 40Q.0> ~	<0.067 <0.001 <0.001	0.024	0.035
7		~ <qq01 &<="" th=""><th>©.001</th><th>0.028</th><th>0.043</th></qq01>	© .001	0.028	0.043
		50 .001 🛒	0.001	0.002	0.003
		₹0.00 1 €″	<0.001	0.007	0.006
4		<0.00 <0.001 <0.001 <0.001 <0.001 <0.001	RO	MA	ACRO
Winter cereals,		\$\tag{\pi_0.00})1	0	.012



Table 9.2.4.1- 12: Tier 1 b - FOCUS PEARL, PELMO and MACRO PEC_{gw} results of isoflucypram and its metabolite (<u>spring cereals, early</u>, 1 × 75 g a.s./ha, 80% interception)

Crop	Scenario	80 th	C _{gw} at 1 m soil dept	h (μg/L)	
		Isoflucy	ypram	BCS-CN88460	arboxylic acid M12)
		PEARL	PELMO	PEARL	PELMO S
Spring cereals, early	Ŧ	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<0.001 <0.001 <0.001 <0.001 0.001 <0.001	0.025 0.136 0.665 0.072 0.101 0.066	0.018 0.114 0.063 0.102 0.080
		MAC	RO o	J J M	AGRO S
Spring cereals, early		9 .0	001		0.025

Table 9.2.4.1-13: Tier 1 b - FOCUS PDARL PELMO and MACRO PEC result of isoflucypram and its metabolite (spring cereals, late 1 × 75 g a.s. [m], 90% interception)

Crop	Scenario	S S S S S S S S S S S S S S S S S S S	percentile PDC	Cgw at I m soft dept) (μg/L)
	Scenario	Isoflucy	pram ,	gw at 1 m soir dept	nrboxylic acid (M12
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	O PEARL ~	PELMQ ◊	PEARL	PELMO
Spring cereals,		\$\tilde{\phi} 0.001\tilde{\phi}	<0.00P <0.001 \$0.001 \$0.004	9.012 9.064 0.039	0.008
late		<0.001 <0.001 <0.001	\$\sqrt{9001} \text{'}	♥ @1:064 &.i I	0.053
		(\$\infty <9.0001 \times	9.001 0.001 20.001	0.030 0.035 0.035 0.047	0.029
			~~~U.UU	l a v 0.93₹ l	0.032
,		<b></b> √0.001  √0.001  √0.001  √0.001  √0.001  √0.001  √0.001  √0.001  √0.001  √0.001  √0.001  √0.001  √0.001  √0.001  √0.001  √0.001  √0.001  √0.001	0 V \0 0 U U I	(N) U.94/	0.048
Č		0.001	\$\text{0.001}\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0.030 0.035 0.047 0.032	0.039
		MAC	L Ø RØ√ ≪	0.032 0.032 MA	ACRO
Spring cereals,		<0.0		0	.012
late			0 ~		
		~ ~ ~	<b>0</b> •0		



## $\underline{Tier~2}$ – $DT_{50}$ soil based on <u>laboratory and field data</u>. Formation fraction based on <u>field data</u>. $\underline{Default}$ used for PUF.

Table 9.2.4.1- 14: Tier 2: FOCUS PEARL, PELMO and MACRO PEC_{gw} results of isoflucypram and its metabolite (<u>winter cereals, early</u>, 1 × 75 g a.s./ha, 80% interception)

Crop	Scenario	80 th percentile PEC _{gw} at 1 m soil μ pth (μg/L)			
		Isofluc	ypram	BCS-CN88460-0	carboxy() acid (M12)
		PEARL	PELMO	PARL	PELMO
Winter cereals, early		<0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	\$\frac{0.001}{0.001}	0.003	0.041 0.041 0.084 0.009 0.022
Winter cereals, early		WAC	CRO 5 5	W S SM	ACRO CO

Table 9.2.4.1-15: Tier 2; POCUS PEARD, PEL 110 and MACRO PEC results of it of lucypram and its metabolite (winter cereals, bute, 1 × 55 g a, 5 ha, 90% interception)

Crop	Seenario "	Softicynist	entile PECg	w at Om soil depth	(μg/L)
	Secnario	80 th perce	n Ş	w at Om soil depth	rboxylic acid (M12)
<b>*</b>		OPEARL P	PEOMO A	<b>PEARL</b>	PELMO
Winter cereals, late	<b>4</b>	\$\square\$001 \times\$	<0.001 <0.001	0.015	0.015
late		≈6 001   ~	<0. <b>00</b>	0.028	0.031
		<0.001 <0.001 <0.001 <0.001 \$\frac{1}{2}\$	<0.001	0.021	0.022
		<0.901 V	<b>€0</b> .001 △ ′	0.019	0.022
		Ž ^y	<0.00	0.021	0.023
		<0.991 0.001 0.001 <0.000 <0.000	<0.001 <0.001	0.016	0.020
		<0.00	<0.001	0.014	0.017
		\$\times' <0,00\dd 1 \&\dd 3	<b>9</b> 0.001	0.001	0.004
			©0.001 <0.001	0.016	0.010
* 1		9001 9001 MACRO		MA	CRO
Winter cereals,		9 9.001		0.	014



Table 9.2.4.1- 16: Tier 2: FOCUS PEARL, PELMO and MACRO PEC_{gw} results of isoflucypram and its metabolite (<u>spring cereals, early</u>, 1 × 75 g a.s./ha, 80% interception)

Стор	Scenario	80 th percentile PEC _{gw} at 1 m soil depth (μg/L)				
			Isoflucypram		rboxylic acid M12)	
		PEARL	PELMO	PEAR	PELMO,	
Spring cereals, early	#	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001	<0.001 <0.001 <0.001 <0.001 <0.001	0.030 0.071 0.041 0.044 0.045 0.030	0.025 0.069 0.038 0.044 0.040 0.032	
		MA	CRO O	MA O MA	ro of o	
Spring cereals, early		<b>9</b> 0	.001	\$\frac{1}{2}\tag{00.0}		

Table 9.2.4.1-17: Tier 2: FOCUS PEORL, PELMO and MACRO RECgw results of soflue pram and its metabolite (spring cereals, late, 1, 75 gas./ha 96% interception)

Crop	Scenario		80th percentile	PPC gw at 1 m son dept	(hg/L)
	J.		lucypram ~	<b>B</b> CS-CN <b>8</b> 8460-car	boxylic acid (M12)
		PEAR	PELMO	PEARL S	PELMO
Spring cereals, late	F		© <0001 \$001 \$0.001	0.014	0.012 0.028
		0,000 <0.001 <0.001 <0.001	<0.000 <0.001 <0.001 <0.001	0.019 0.024 0.022	0.018 0.021 0.021
		<0.001 [∞]	0.001	0.022	0.016
		M	IACRO S	MAC	CRO
Spring cereals, late			\$0.001 \$\infty\$	0.0	013

#### **Conclusion:**

Following a tiered approach for all intended uses of Isoflucypram EC 50 in winter and spring cereals at the highest application rate of 75 g. a.s/ha/here are no concerns for groundwater from the active substance isoflucypram and itometabolite BCS-CN88460-carboxylic acid (M12).

# CP 9.2.4.2 Additional field tests

No additional field studies were performed based on the conclusions derived from calculated PEC_{gw} values (see Section CP 9 34.1).

# CP 92.5 Estimation of concentrations in surface water and sediment

Calculations of predicted environmental concentrations in surface water (PEC_{sw}) and sediment (PEC_{sed}) are presented below.



#### **Endpoints for PECsw**

Modelling input parameters for isoflucypram and its metabolite BCS-CN88460-**Table 9.2.5-1**: carboxylic acid (M12)

Compound	Isoflucypram	BCS-CN88460-carboxylic acid (1912)
Molecular mass (g/mol)	399.85	<b>2</b> 29.8
Water solubility (mg/L)	1.8 (20°C)	110100 (20°C)
Saturated vapour pressure (Pa)	1.2 × 10 ⁻⁷ (20°C)	2,6 × 10 ⁻¹³ (20°C)
$K_{foc} (mL/g)/K_{fom}$	1580 / 916.3 (geometric mean, n = 7)	37.1 × 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1/n	0.9142 (arithmetic mean $= 7$ )	Not sequired &
Plant uptake factor	0 & 60	
Wash off factor from crop (1/m)	required for Step 3-4; 50	Onot required A
DT ₅₀ in soil (d)	314 (geometric mean lab, normalisation of pF2 20°C, with Q ₁₁ 37 2.58, n =7)	34. Degeometric mean lab, normalisation to F2,
DT ₅₀ in water (d)	354 (Step 2) 354a1/10000b) (Step 3)	From (default value)
DT ₅₀ in sediment (d)	357 (Step 2) 1000a/354 (Step 3)	1000 (default value)
DT ₅₀ in total system (d)	© 354 Step 2 0	1000 (default value)
Maximum occurrence observed (% molar basis with respect to parent)	Soil: 109 Total system: 100	Soil 9.6  Total system: 6.6

According to FOCUS 2015) for substances with a Koc between 100 and 2000 ml/s two of tions should be tested:

### PEC_{sw} modelling approace

Calculation of PEC values for the active substance according to FOCUS FOCUS_{sw} is a four step tiered approach:

Step 1: In this, the most conservative step, all inputs are considered as a single loading to the water body and a worst-case PEC_{sw} and PEC_{sed} is calculated.

Step 2; Individual loadings into the water body from different entry routes are considered. Scenarios are also considered for Northern and Southern Europe separately but no specific crop scenarios are defined.

Step 3: An exposure assessment using realistic worst-case scenarios is made. The scenarios are representative of agricultural conditions in Europe and consider weather, soil, crop and different water-bodies. Signalations use the models PRZM, MACRO and TOXSWA.

Step 4: REC values are refined by considering mitigation measures or specific scenario descriptions on

a) DegT50, system used for degradation in water, default DT50 of 1000 days used for degradation in sediment

b) DegT50, system Ged for degradation in sediment default DE of 1900 days used for degradation in water



Predicted environmental concentrations in surface water (PEC_{sw}) and sediment (PEC_{sed}) of isoflucypram and its metabolite BCS-CN88460-carboxylic acid (M12)

For isoflucypram, the metabolite BCS-CN88460-carboxylic acid (M12) was considered.

Report:

Title:

Report No.: Document No.:

Guideline(s): Guideline deviation(s): **GLP/GEP:** 

KCP 9.2.5/01; , G.; , W.; 2017; M-610045-01-1
Isoflucypram (ISY) and metabolite: PECsw,sed FOCUS EUR - Use in Greals of Europe
EnSa-17-0697
M-610045-01-1
none
none
no

als: Predicted environmental concentrations of the stabolite BCS-CN88460 carboxylic acid (M12)
calculated for the use in Europe
2001 2015 Methods and Materials: Predicted environmental conceptrations of the active substance isoflucypram and its metabolite BCS-CN88460 chronylic acid (M12) in surface water (PECsw) and sediment (PEC_{sed}) were calculated for the use in Europe, employing the treed FQCUS 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 use of isoflucypram in cereals was assessed according to Good Agricultural Practice (GAP) in Europe. Detailed application parameters are presented in Table 92.5-2

FOCUS Step 1-2 specific data for the GAPs assessed **Table 9.2.5-2:** 

Crop	BBCH	Rate	haterval	FOCUS crop	Season S	Crop cover
	stage	[g a.s./ha]	Adays	(crop group)	(7) n	
	BBCH stage	1 × 75		Winter cereals Winter cerears	Spring (Mar. May)	Average crop cover
Cereals &	30-69	1 × 75		Winter cereirs	Spring Mar. May) Summer (Jun. – Sep.)	Full canopy
Cercuis	30-07			Spring@ereals	Spring (Mar May)	Average crop cover
		1 × 75 @		Spring cereals	Symmer (Jun. – Sep.)	Full canopy
Substance in	Put param	eter are sur	numarised	Winter cereals Spring cereals in Table 9.25	-3.	



Table 9.2.5-3: Substance parameters used for isoflucypram and its metabolite BCS-CN88460-carboxylic acid (M12) at Steps 1-2 level

Parameter	Unit	Isoflucypram	BCS-CN88460- carboxylic acid (M12)	
Molar mass	(g/mol)	399.85	429.8	
Water solubility	(mg/L)	1.8	10100	
Koc	(mL/g)	1579.6	37.1	
Degradation	, ,,			
Soil	(days)	314	34.4	
Total system	(days)	354	34.4	
Water	(days)	354		
Sediment	(days)	354	1000	
Max occurrence				
Water / sediment	(%)	100 🗸		
Soil	(%)	100 🐇		

For the use in cereals, in addition to FOCUS Step 1-2 values, FOCUS Step 3 values were calculated for the active substance isoflucypram. In FOCUS Step 3, the application date for each scenario is determined by the Pesticide Application Timer (PAT) which is part of the POCUS SW Scenarios. The user may only define an application time window. The actual application date is therefore by the PAT in such a way that there are at least 10 mm of rainfall in the first 10 days after application, and at the same time less than 2 mm of rain per day in a five day period around the date of application. If no such date can be found within the application time window, the above rules are step wise relaxed. Information on application dates can be forwal in Table 9.2.5-4.

in such a way that there are at least 10 mm of rainfall in the first 10 days after application, and at the same time less than 2 mm of rain per day in a five day period around the date of application. If no such date can be found within the application time window, the above rules are step wise relaxed. Information on application dates can be found in Table 9.2.5-4.



Table 9.2.5-4: Application dates of isoflucypram for the FOCUS Step 3 calculations

Appl. method (appl. type)	cereals, late	Spring cere	ıls, early	Spring cerea	als, <u>l</u> ate	Winter cere	eals, early	Winter cere	Parameter
Appl. method (appl. type) (CAM 2) (CAM									PAT start date
CAM 2   CAM	bsolute 🌱 🦷		ite	Absolu	ite	Absolu	lute	Abso	rel./absolute
No of appl.   1	ground spray		ground spray		ground spray		spray	ground	Appl. method
PAT window range 30	(AM/2)	(CAM	2) \$	(CAM	2)	(CAM	(CAM 2)		(appl. type)
PAT window range 30		$\sim$		1		1	1		No of appl.
Appl. interval   PAT   Start/end date	)		4						
Appl. interval   PAT   Applistration   Start/end date   Start/end date   Julian day   PAT   Start/end date   Julian day   Ditch/Stream   Applistration   Applistration date   Julian day   Applistration   Aug (143/173)   Aug (183/213)   Aug (111/291)   Aug (183/213)   Aug (111/291)   Aug (111/	30 %	30	1, ·	30	Ĉ.	30	)	30	range
Drainage scenarios   Start/end date				- 0		-		-	
Steenarios   Start/end   date   dat	Appli-	PAT	Appli-	PAT S	Appli-	PAT	Appli-	PAT	• •
D1		Start/end	cation						
D1	date			date	41 -				
D1		(Julian day)							
Ditch/Stream (110/140)	- A	13 Jun/18 -	1.7-¶in	25 May 26-	17aJin		25-Apr	• /	D1
D2   D3   D3   D3   D3   D3   D3   D3	y 203 un			Inf			23 1101		
D2 Ditch/Stream  D3 D3 Ditch Aug (183/213)  D4 Pond/Stream  D5 Pond/Stream  D6 D6 D7 D6 D7 D7 D7 D8 D8 D9	9)	(169) (199)	<b>6</b> ″ 1	(147/977)					Ditch/Stream
Ditch/Stream		(100)177)	S					(110/110)	
Ditch/Stream		& _ 1, `	, O		12-Yun	A Juna/17/-	23-May	23-May/22-	D2
D3 Ditch D3 Ditch Aug (183/213)  D4 Pond/Stream D5 D5 Pond/Stream D6 D6 D7 D15 D8 D8 D8 D8 D8 D9			W (	, , , , , , , , , , , , , , , , , , ,	× 1	I Sal	25 1114		
D3			Ç L		, S	(162/192)	Ó		Ditch/Stream
D4					. 🔍	(196,172)	l &	(143/173)	
D4	28- 28-May	29-May/28-	0st May	ON-April X-	O. Tinl	(\$\hat{G}_2\tim1/3.\hat{G}_1\tim1	08-111	02-101/01-	D3
D4	20 1114)	Inter/		W Mag		(182/212)			
D4 Pond/Stream	9)	(149/179)		(1 kg/148)		(102/212)		_	Ditti
D4 Pond/Stream	)	(14)/1/) 		(120/140)	<b>~</b>			(103/213)	
Pond/Stream    May	)9- 04-Jul	200 Iun/00	30 X/2V	A& Mar W7	Olda Int	90 Inn 100	21-Apr	21-Apr/21&2	M
Color   Colo	04-341	<b>₩</b>	3071viaya	<b>4</b> . <i>V</i>	Wa-Jui		ZirApi		
D5 Pond/Stream   15 Mar/14   08 Apr   03 May/02   1 May   09 Apr/09   1 Apr   05 May/ Jun   (125/15)	0)			- 797 (/ n	)	(160/100)			r ond/Sucam
Poind/Stream	0)	(100/190)	<b>*</b>	(136/100)		(130/1907)		(111/441)	
Point   Stream	04-   11-May	05 May/04	1 WARE	600 And 80	J DA	% MANO2	OS Arpr	15% or/10	D5
Company   Comp	11-way	-	-Yhi	Mary	Tiviay,	03-May 02-	03-Mpi		
D6	5)			(200 / 120)		(6)2/152		()	Folia/Suealli
D6	3)	(123/133)		3,1236		(1×45/1356)		) (74/a <b>0</b> 94) *	(
Ditch				01	00 Apr	200 May 7	05\Mar	02 Mar/08	D6 %
R1 Pond/Stream	-	-	_		V9-Api	₽ .	03-wiai	02-Wai/01	
Pond/Stream (110040) (110040) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/176) (146/1					)	(\$\frac{1}{2}/117\sqrt{2}		(61%)	Ditens
Pond/Stream (110040)  R3				<b>A</b> "	<b>&amp;</b>				
Pond/Stream (1100140)  R3 10-Apr/10- 14-Apr 25-Apr/25- 25-Apr					12 Jun	% N4.05	26 nr .	200 1 1 1 20	D 1
R3 10-Apr/10- 10-Apr 25-Apr/25- 25-Apr	-	-	-	-	13-Jun	20-lylay/23-	Zes Api	Movie	
R3 10-Apr/10- 10-Apr 25-Apr/25- 25-Apr					· ~			(1100 h/0)	ronu/sueam
Stream May (100 30)					Ò	(15/4-0/1/0)	P ~ "	(1100/40)	
Stream (100 30) (100 30) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (215/145) (					Ø 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	25 125	18 Anr	10 Apr/10	D2 🛋
R4   (100 330)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (21 5/143)   (	_	-	_	_	r¥3-Api ∜	7 23-A <b>b</b> 7 23-	Api (		Ctro
R4   \$\frac{1}{2}\sigma\text{Mar}/14-   2\frac{1}{2}\text{-Mar} \text{ O3-May}/02-   04-May   09-Apr/09-   04-May   05-May/						Iviay Q	4 " ~	(100 20)	Sueam
R4   \$\frac{1}{2}\sigma\text{Mar}/14-   2\frac{1}{2}\text{-Mar} \text{ 03-May}/02-   04-May   09-Apr/09-   04-May   05-May/						(4) 13/143 <b>y</b>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Stream Apr San Way (99/129) U3-Way U3	04 05 Max	05 May/04	04 More	00 4 mm/00	04 More	02 Mby/02	2 Mar @	15\Mor/14	D 4
Stream (74)04) (99/129) (125/15	04-   05-May		04-May	-	04-May	9 03-1 <b>vrs</b> yy/02-		3 2 1VI al / 14-	
(143/14) (123/133) (99/129) (123/13	5)			(00/120)		J%III Øl₀22/152)		ADI (7%164) á	Sueam
	3)	(123/133)		(99/129)		(W/23/133)	f <u>«,                                    </u>	(/4/3/04)	Į.
						V	D.		Ñ,
							~	S A	~G
							Q _a	m Q, 's	
							1	O' Î	
& [©]									Ç.



B A BAYER E R		Γ	Page 27 of 56 2018-02-01 Document MCP – Section 9: Fate and behaviour in the environment Isoflucypram EC 50 (50 g/L)
the tables b	pelow for isoflum	ucypram and	n PEC _{sw} and PEC _{sed} values for FOCUS Step 1 and 2 are given in its metabolite BCS-CN88460-carboxylic acid (M12).
<b>Table 9.2.5-</b>	-5: FO	CUS Step 1-2	2 results for isoflucypram (winter and spring cereals Opring)
Scenario FOCUS	Waterbody	Max PECsw (μg/L)	Dominant entry route (µg/L) 21d-PECsw,twa (µg/L) (µg/L) (µg/kg)
Step 1	-	8.7383	RunOff/Dog/h. 8.2476 8.8141 0 030.390
Step 2			
N-Europe S-Europe	Mar May (Spring)	1.5622 2.8386	RunOff/Dram 2.7590 1.4680 7.3597 ° RunOff/Dram 2.7590 4 2.7186 3.720

FOCUS Step 12 results for isoflucypram (winter and spring cereals, suppmer) **Table 9.2.5-6:** 

Scenario FOCUS	Waterbody	Max PECsw (Jay L)		7d-DECsw.stva	(μ <b>g)</b> L) %	Max PEC _{sed} γ (μg/kg)
Step 1	- %	8.7383	BunOff Drain,	8,2476 Z	8.114	130.39
Step 2	2					
N-Europe S-Europe	Jun Sep. (Summer) (	0.764 1.0037	RinOff/Drain. RunOff/Drain.	06989 09366	0.6864 0.9209	11.020 14.793

POCUS Step 1-2 results for BES-CN88460-carboxylic acid (M12) (winter and spring Oreals, spring).

Scenario FOCUS	Waterbody	Max DECsws	PunOtto Drain	/ CS ECSW,twa	21d-PEC _{sw,twa} (μg/L)	Max PEC _{sed} (μg/kg)
Step 1	_ '	4.1971	Run Of Drain	4.1848	4.1645	1.5552
Step 2	Mar May	, Q ~,				
N-Fairepe S-Europe	(Spring)	0.67 <b>80</b> 1. <b>30</b> 90	KunOff Drain.	0.6758 1.3051	0.6725 1.2988	0.2511 0.4850
S-Europe S		1.3090	Q,			



Table 9.2.5-8: FOCUS Step 1-2 results for BCS-CN88460-carboxylic acid (M12) (winter and spring cereals, summer)

Scenario FOCUS	Waterbody	Max PECsw (μg/L)	Dominant entry route	7d-PEC _{sw,twa} (μg/L)	21d-PECsw,twa (µg/L)	Max PEςsed (μg/kg)
Step 1	-	4.1971	RunOff/Drain.	4.1848	<b>4</b> .1645	1.5552
Step 2					× ×	
N-Europe S-Europe	Jun Sep. (Summer)	0.2838 0.4021	RunOff/Drain. RunOff/Drain.	0.2824 0.4004	0.2810 5 0.3985©	0.1050 0.1488

FOCUS Step 3: The maximum PEC values for FOCUS Step 3 are given in the Cables below for isoflucypram considering application in cereals. The reported PEC sw and PEC d values represent loadings via all relevant entry routes.

Results are presented on the basis of calculations which were some with two slightly different input parameters. In the first four tables results are presented which were based on calculations with a  $DT_{50}$  of 354 days for the water phase and 1000 days for the sediment phase. In the next four tables results are presented which were based on calculations with a  $DT_{50}$  of 1000 days for the water phase and 354 days for the sediment phase. All other input parameters used for calculations were equal.

### DT₅₀ system (354 days) assigned to water phase

Table 9.2.5-9: PECsw and PECsed values of isoffucypram (winter cereals, early

Scenario	Watarb	Max PECsw (µg/L)	Dominant entra route	7d-PF6 sw,twa 4	21d=RECsw,twa	Max PEC _{sed}
FOCUS	Waterbardy	( ATV)	/ Dominant	yu-r mysw,twa y	21U-TECsw,twa	
rocus		(LOCAL)	entragroute	* <i>}}</i> ;5'-L')	μg/L)	(µg/kg)
Step 3		~ ~			Š	
D1	Ditch , Stream		Drasage .c	9 1 <b>37</b> 50 @	1.1340	16.430
D1 🐧	Stream	U.4/88 🛋	Drainage	_@ 0.7338	0.7067	9.1470
D2	Ditch 💍	~~~~.169Q~~	Drainage	~~~0.72 <b>%</b>	0.6593	12.700
D1	Stream Ditch Stream Ditch Pond Stream Pond Stream	ٍ 0.7315° رُ	Drainage Spray drift	0.447	0.4082	7.4690
D3	Ditch	0. <b>47</b> 54 C	▼ Spray drift⊈	(20)989	0.0338	0.3744
D4	Rond	<b>2</b> 783 783	D@ainage © "	>0.0744	0.0722	0.7220
D4	Stream 5	₩.3651m	Spray drift	0.0744 0.0849 0.0790	0.0406	0.2768
D5	@ PondO	0.0817	O Drainage	© 0.0790	0.0728	0.9655
	Stream 😞	0:3792	V Carmer/ duit/	0.0443	0.0230	0.2141
D6 R1 R1	Ditch	0.3392 0.0396 0.0396	, I Painage	0.1568	0.0776	0.7453
R1 Ø″	Pond 🦃	0.0396	Runoff	0.0374	0.0343	0.5535
R1 🗬	Stream	0.3123	Sprayarift	0.0290	0.0174	0.4369
R3	Stream 2	D 42414	Spray drift	0.0374	0.0202	0.7174
R4	Stream  🎖 🕏 🕏 🕏	<b>. . . . . . . . . .</b>	Runoff	0.1210	0.0534	0.6550
	Stream O	0.3123	Q,			
			7			
Ž.	" **					
Ò						
47	D A	~				
. L		<b>Q</b> *				
		ý				
A (A)						
Ü						



### Table 9.2.5-10: PEC_{sw} and PEC_{sed} values of isoflucypram (winter cereals, late)

Scenario FOCUS	Waterbody	Max PEC _{sw} (μg/L)	Dominant entry route	7d-PEC _{sw,twa} (µg/L)	21d-PEC _{sw,twa} (µg/L)	Max PEC _{sed} (μg/kg)
Step 3					<b>*</b>	
D1	Ditch	0.6397	Spray drift	0.5314	<b>6</b> 3000	8.6720°
D1	Stream	0.4214	Spray drift	0.3233	₄ 0.3116	£ 4.53€ T
D2	Ditch	0.7501	Spray drift	0.6346	0.5448	© 8.94680 √
D2	Stream	0.5827	Spray drift	© 0.4925	🐶 0.4221 👟	~5, <b>3</b> 850 ~
D3	Ditch	0.4754	Spray drift	🕅 0.0989 🎤	0.0338	©0.3744 //
D4	Pond	0.0432	Drainage 🛴	0.0408	0.0384	0.40%
D4	Stream	0.4102	Spray drift	0.0432	0.0493	° 0.4\$19 €
D5	Pond	0.0401	Drainage	0.0387	0,6356	0.5091
D5	Stream	0.4425	Spra arift	0,0242	0.0106	√ 0.13 <b>06</b> √
D6	Ditch	0.4766	Spay drift	<b>√0</b> ,1989,≪″	√°0.080°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	~~~~ 0.6 <b>%</b>
R1	Pond	0.0482	<b>R</b> unoff ©	0.0459	© 0.0444	0.6357
R1	Stream	0.3133	Spray drift	© 0.0 <b>39</b> 6	0.0200	<b>673</b>
R3	Stream	0.4414	Spray drift,	9.0384 A	®.0237	\$0.26 <b>1</b> €
R4	Stream	0.3506	Runoff @	<b>40</b> .1110	~ 0.051°	( 0.9 <b>26</b> 1

Table 9.2.5-11: PEC_{sw} and PEC_{sed} values of isoflucypram (spring cereals, early)

Scenario	Waterbody	Max PECsw	Dominant	74 PECQ twa	♥ · ♠ º	Max PEC _{sed}
FOCUS		« (μg/L) [*]	entry route	(μg/L)	(ug/L)	(μg/kg)
Step 3	<b>₩</b>				J . B	
D1	Ditch	0.9945	D .	0.9933	Ø,8723	16.080
D1	Stream (		Drainage S	©5626 _e	_@ , 0.5420	8.8970
D3	Ditch \O	074745 [≪] ″	Spray drift	\$0.077£	0.0261	0.3108
D4	Pond	0.0870 _/	Drainage	0.0852	⊌ [™] 0.0823	0.8852
D4	Stream Portd	,© 0.38®	Spray drift	© 0 332 ₀	0.0502	0.3017
D5	Pond	0.4262	Drainage	0.0738∜√	0.0680	0.9143
D5 D5 R4	Stream	3988	Spray drift	©0.0387°	0.0201	0.1941
R4	Stream	0.3751 O	Rungh	0,109	0.0550	0.9664

Table 9.2.5-12: ECswand PECsed values of isoflucypram (spring cereals, late)

		~ ~ ~ ~	* %	~ ¥		
Scenario *	Water Gody	Max PECsw?	entry route	7d-PECsw,twa (µg/L)	21d-PEC _{sw,twa} (μg/L)	Max PEC _{sed} (μg/kg)
FOCUS		W N				
Step 3						
D1 🦈	Ditch O	£6774 ° √	Şpray drift	0.5657	0.4696	8.9790
D1	@Stream	0.422	Spray drift	0.2933	0.2824	4.8240
D3	Diteh,	0.4749 0.0539	Spray drift	0.0859	0.0292	0.3373
D4	Pond S	0.9539	Drainage	0.0515	0.0496	0.5277
D4	Stream O	<b>3</b> 0.4089	Spray drift	0.0565	0.0272	0.1927
D4 D4 D5 D5	Pond	0.0428	Drainage	0.0413	0.0380	0.5494
		0.4140	Spray drift	0.0207	0.0107	0.1072
R4 S		0.3893	Runoff	0.1242	0.0592	1.0030



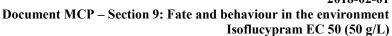
## DT₅₀ system (354 days) assigned to sediment phase

Table 9.2.5-13: PEC_{sw} and PEC_{sed} values of isoflucypram (winter cereals, early)

Scenario FOCUS	Waterbody	Max PEC _{sw} (μg/L)	Dominant entry route	7d-PEC _{sw,twa} (μg/L)	21d-PFCsw,twa	Max OF Csed
Step 3				۵۰		
D1	Ditch	1.2430	Drainage 🤻	7 1.1750 Q	1.1340 Č	
D1	Stream	0.7788	Drainage @	0.7338	0.7067 [©]	8.7690
D2	Ditch	1.1690	Drainag <b>o</b>	0.7299	0.6592	Q 11,930
D2	Stream	0.7315	Drainage	0.441 €	° 0.419/82 4	7.0280
D3	Ditch	0.4754	Spravarift	0.0990 ° ©	0.0338√°	Ø.3742© [*]
D4	Pond	0.0785	Drainage	£20746, 7	@0.072 <b>%</b>	0.715
D4	Stream	0.3651	Spray dright	√0.084 <b>%</b>	0.0496	0.2764
D5	Pond	0.0821	Drainage	© 0.0 <b>79</b> 5 (	0.0734	95 <b>9</b> 352 ₄ ,°
D5	Stream	0.3792	Spray drift	Q.0443 🔬	0230	©.2104©″
D6	Ditch	0.6339	Drainage	√9.1568√√°	~0.07 <b>7</b>	₁ 0.71 <b>59</b>
R1	Pond	0.0401	& Runoff	0.0380	√ 0.03634	0. <b>59</b> 71
R1	Stream	0.312	Spray Fift	9 0,0 <b>29</b> 0 .	) 0. <b>01</b> 74 &	∂ ₃ 4309
R3	Stream	0.4454	Spray drift "	0.0374	<b>6.0202</b>	°.≪Ø.7169
R4	Stream	0.3930	<b>Ka</b> noff	65.1210r ^O	©0.053\$P	[™] 0.6540

Table 9.2.5-14: PEGsw and PECsca values of isoflucypram (winter cereals, late)

	~	Max PEQ.		1 0 - 4 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		11 776
Scenario	Waterbody	Max PEQ _{sw}	<b>Domigant</b>	7d-PE@sw,twa	21d-PPCsw,twa	Max PEC _{sed}
FOCUE	Ŏ,	(hg/L)	entry route	(μg/L) Oʻ	Lug/L)	(µg/kg)
FOCUS	waterbody	(hgA)	Dominant entry oute			
Step 3					Ž	
D1	Dito	0.6392	Spray drift Spray drift	©5314, ©	0.5000	8.1880
D1	Stream	Q.#214 A	Spray drift	@10.323@	0.3116	4.3170
D2	Ditch 💍	0.7502 0.5827	Spray drift	© 0.6 <b>35</b> 5	0.5464	8.4110
D1 D2 D2	Ditch Stream  Stream  Stream  Ditch	0.5827	Spray arift	0.4932	0.4235	5.0410
D3	Ditch Pond Stream Pond	Ç″0,4754 °, Ç		# <del>!</del> 0990	0.0338	0.3742
D4	Pond 3	<b>1</b> 0.435	Drainage	҈0.0411	0.0387	0.4052
D4	Stream	≈0.410 <i>20</i> °	Spray Antt	0.0432	0.0193	0.1511
D5	Pond	0.040A	Drainage	0.0390	0.0359	0.4941
	- Viream ⊗	0/21/25	Spray drift	0.0242	0.0106	0.1301
D6 R1	, Ditch	0.24*25 0.4766 0.0493	Spray drift	0.1992	0.0804	0.6639
R1	Pond	Q0.0493	L⊗″ Runo≰f	0.0470	0.0455	0.6307
		<u>4</u> 10.313/3	Spraydrift	0.0396	0.0200	0.9214
R3	Stream 4	0.313/3 0.4414 0.3506	Sporay drift	0.0384	0.0237	0.2598
	Stream "O"	©.3506	Runoff	0.1110	0.0515	0.9191
R3 A R4	Stream O					





**Table 9.2.5-15:** PEC_{sw} and PEC_{sed} values of isoflucypram (spring cereals, early)

Scenario FOCUS	Waterbody	Max PEC _{sw} (μg/L)	Dominant entry route	7d-PEC _{sw,twa} (µg/L)	21d-PEC _{sw,twa} (μg/L)	Max PEC _{sed} (μg/kg)
Step 3					- O	
D1	Ditch	0.9975	Drainage	0.9032	å 0.8722	√ 15 240V
D1	Stream	0.6255	Drainage	0.5626	0.5420	0 8.4 <b>3</b> 90
D3	Ditch	0.4745	_	🖒 0.0771 🔏	0.0262	Q.3/107 S
D4	Pond	0.0874	Drainage	0.0856	0.0826	~00.8793 °°
D4	Stream	0.3879	Spray drift(	0.0932	0.05	0.300
D5	Pond	0.0766	Drainag	0.074	0.0686	0.8863
D5	Stream	0.3988	Spray	0.0387	0,60201	0.1907
R4	Stream	0.3751	Rusoff	Q 199 × V	0.0550	0.9653

PECsw and PECsed values of soflucy pram (spring cereals, late) **Table 9.2.5-16:** 

Scenario	Waterbody	Max PEC	Dominant	Zd PEC So, twa	21d-PFJ sw,twa	Max BECsed
FOCUS		(μg/ <b>L</b> )	Sentry route	Ç (μg/L)	(LOTE)	(ug/kg)
Step 3			o S			1
D1	Ditch	0.6771	Spray drift	0,5659	9 ₄₇₀₅ ©	8.4800
D1	Stream	0.4324	Spr@ydrift ©	0.2933	°>Ø.2824©	4.5840
D3	Ditch 🗞	© 0.4749	Spray drift	€0.085 <b>9</b>	0.0293	0.3372
D4	Pond	<b>₹</b> 0.0542€	Draimage .	0.0518	0.099	0.5248
D4	Stream	® 0.4089	Sprax arift	) 0. <b>©</b> 365	Ø.0272	0.1920
D5	Power	0.0431	Dramage N	<b>%</b> .0416	_ 0.0384	0.5330
D5	Pord Stream	Ø¥140 ∜ [™]	Spray drift	\$0.020\$\(\frac{1}{2}\)	0.0107	0.1054
R4	Stream	Ø.389 <b>3</b>	Runoff	0.12,12	0.0592	1.0020

#### FOCUS Step 4:

FOCUS Step 4 calculations considering different boffer zones in combination with mitigation by drift FOCUS Step 4 calculations considering different boffer zones in combination with mitigation by drift reducing nozzles (where applicable) where conducted based on the Step results. In the following a summary of PEC values resulting from application in gereals is given for isoflucypram.



## DT₅₀ system (354 days) assigned to water phase (PEC_{sw})

B A BAYER							Page 32 of 56 2018-02-01			
BAYER	Document MCP – Section 9: Fate and behaviour in the environmen									
)T₅₀ svstem	ı (354 days) a	ssigned to w	vater phase	(PEC _{sw} )						
<u>s </u>		-	<del>-</del>		for isoflucy	pram (winter	cereals, carly)			
PECsw (μg/L)	Scenario			STEP 4 iso	flucypram	\$ \$		O Pa		
Nozzle	Vegetated strip (m)	None	None	Norte	None	10m low	20m high			
reduction	No spray buffer (m)	0 m	5 m	₩ 0 m	200m	10 %	20 m \$ 2			
None	D1 Ditch	1.2430	1.2430	1.2430	1.2430	202430	1,2430	•		
50 %		1.2430	1.2430	1.2430	1.2430	© 1.2430	. 4.2430 F			
75 %		1.2430	1.2430	Ø1.2436	<b>1</b> 2430 0	1.2930	1.2430			
90 %		1.2430	12430	1,2490	Q1.2430	.2430 🔘	1 430			
None	D1 Stream	0.7788	\$0.778 <b>8</b> 9	<b>9</b> ,7788 C	0.7788 %	0.7788	0.778			
50 %	]	0.7788	0.7788	0.778	<b>9</b> .7788	0₽188 €	0.7788			
75 %		0.7788	Ø91788 [™]	0.7788	¥ 0.7788	Ð.7788€	<b>1</b> 7788			
90 %	D4 D1 1	0.7788	\$0.77 <b>8</b> \$	9.7788°)	0.7788	1/20 (	0.7788			
None	D2 Ditch	<b>1</b> 7690	1,1690	1.1690	Ø1.1690	1.1690 C	1.1690			
50 %	- %	1.16%	1.1690	1.9690	1.1690 1.1690 ×	<u>&gt;`</u>	1.1690			
75 % 90 %		1,1690 3.1690	1.1690	7.1690 1.1690	©1.1690 ₩ ©1.1690	1. <b>169</b> 0 11/1690	1.1690			
None	D2 Stream	0.73	0.7315			0.7315	1.1690 0.7315			
50 %		0.7303 0.7315	0.7315	\$7315 @ \$70.731\$7	©.7315	0.7315	0.7315			
75 %	D2 Stream	©.7315 ©.7315	6,7315	0,7315	0.7345	0.7315	0.7315			
90% &	*(())	0.7395	\$\langle 0.7315\langle \text{\$\frac{1}{2}}	<b>©</b> .7315	0.7315	0.7315	0.7315			
None	D3 Ditch	<b>19</b> 4754	0.1289	\$\text{0.0684}	0.0355	0.0684	0.0355			
50 %	D3 Ditch	0.237	0.0645			0.0342	0.0178			
75 %		0,1988 *	0.0322	8.017	0.0089	0.0171	0.0089			
90 %		0.0475	0-0129 E	0.00	0.0035	0.0068	0.0035			
None	B4 Pond	0.0783	0.0779	<b>©</b> 9772	0.0767	0.0772	0.0767			
50 %	, 	0.0769		<b>₹</b> 0.0764	0.0761	0.0764	0.0761			
75 %		0.0762	ØØ761, <b>₹</b> Ç	0.0759	0.0758	0.0759	0.0758			
90 🦑		0.0758	Q0.075	0.0757	0.0756	0.0757	0.0756			
None	D4-Stream	a 3651 @	0.2\$66	0.2266	0.2266	0.2266	0.2266			
50 %		0.2266	0.2266	0.2266	0.2266	0.2266	0.2266			
75 %	D4Stream	0.2266	© 0.2266	0.2266	0.2266	0.2266	0.2266			
90 %		<u> </u>	0.2266	0.2266	0.2266	0.2266	0.2266			
None (	P5 Poro	<b>♥</b> ′0.0817	0.0814	0.0810	0.0806	0.0810	0.0806			
50% 3		0.0000	0.0806	0.0804	0.0802	0.0804	0.0802			
75%	1	0.0803	0.0802	0.0801	0.0800	0.0801	0.0800			
90 %		0.0800	0.0800	0.0800	0.0799	0.0800	0.0799			



Vegetated strip (m)			STEP 4 iso	oflucypram		6
	None	None	None	None	10m low	20m high
No spray buffer (m)	0 m	5 m	10 m	20 m	€10 m	20 m
5 Stream	0.3792	0.1389	0.1289	0.1289	•	0.1289
	0.1899	0.1289		0.1289		0.1289 0.1289
	0.1289	0.1289	0.1289	0.1289	0.128	0.1289
	0.1289	0.1289	<b>2</b> 0.1289	£ 1289 .	0,1989	0.1289
06 Ditch	0.6339	0.6339	0.6339	y 0.633 <b>9</b>	®6339 Õ	006339
	0.6339	0.6339	6339	0,6339 🐇	J 0.63	°>,0.6339€
	0.6339	0.6339	(J0.6339)	<b>10</b> :6339	0.6339	0.63\$9
	0.6339	£0,6339°×	0.6339	0.6339	Ø.6339	<b>6</b> 5339
1 Pond	0.0396	© 0.0386	<b>Ø</b> .0368	06353	9 0.04 <b>0</b> 77	<b>\$</b> 0.00 <b>%</b>
	0.0359 💍	0.8354 .	© 0.03¶3	©0.0339	Ø153 Ø	0.9081
	0.0340	0.0339	0.0337	0.0395	0.0142	\$0.0073
	0.035 🐧	♥ 0.03 <b>%</b>	£0.03340	€ 0333 €	039 <b>9</b> 37 (	0.0069
1 Stream	<b>*0</b> .3123	<b>0 2</b> 235 _	0.2235	L 0.2235	Ø.1015 [©]	0.0532
0,6	© 0.22\$\$	©.2235	0.2235	0,2335 ~	©0.1 <b>04</b>	0.0532
√ °,	9 <del>2</del> 235 &	0.2255	©0.2235	&0.223 ₂ 5	00015	0.0532
	Ø.2235	@2235 S	0.2235	0.2235	LØ.1015	0.0532
3 Stream	0.4494	0.2679	°©.2679©	0.2679	0.1222	0.0641
	0.2679 📞	0,2679	- 7/	0.2679	0.1222	0.0641
	© 0.2679	0.2679	0.2679 (	0.2629	0.1222	0.0641
, L	0.2679	0.26	0.26790	002679	0.1222	0.0641
4 Stream	\$3929 [©]	0,3929 (	0.3929	©0.3929	0.1773	0.0926
	§ 0.3929	, Ø.392 <b>%</b>	Ø.3929 ≈	0.3929	0.1773	0.0926
	0.3929	0.3929	0.3920	0.3929	0.1773	0.0926
	©.3929	09929 C	0.3929	0.3929	0.1773	0.0926
	1 Pond  1 Stream  3 Stream	0.1289 0.1289 0.1289 0.6339 0.6339 0.6339 0.6339 0.0340 0.0359 0.0340 0.0355 0.0345 0.0235 0.2235 0.2235 0.2235 0.4424	0.1289 0.1289 0.1289 0.1289 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.0339 0.0338 0.0340 0.0339 0.035 0.0338 1 Stream 0.3122 0.235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235	0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.0359 0.0386 0.0386 0.0359 0.0336 0.0338 0.0335 0.0338 0.0338 0.235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235	0.1899 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.0359 0.0355 0.0355 0.0355 0.0355 0.0355 0.0355 0.0355 0.0235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.2235 0.	0.1899 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.



Table 9.2.5-18: Single application FOCUS Step 4 results for isoflucypram (winter cereals, late)

PECsw (μg/L)	Scenario			STEP 4 iso	oflucypram		
Nozzle	Vegetated strip (m)	None	None	None	None	100 low	20m Chigh
reduction	No spray buffer (m)	0 m	5 m	10 m	20 m	10 m	\$20 m
None	D1 Ditch	0.6397	0.5504	0.5594	0.550	0.5504	03504
50 %		0.5505	0.5504	0.5504	0.5604	0.550\$	0.5504
75 %		0.5504	0.5504	<b>2</b> 0.5504	5504 .	0,6504	0.5504 0.5504
90 %		0.5504	0.5504	0.5504	y 0.55 <b>02</b>	8.5504°	005504
None	D1 Stream	0.4214	0.3448,	<b>6</b> 3448	0,3448 «	0.3498	30.3448
50 %		0.3448	0.3448	© 0.3448	<b>0</b> .3448	0.9448	0.3448
75 %		0.3448	×0.3448°	0.3448	0.3448	0.3448	63448
90 %		0.3448	© 0.3448	Ø.3448	03448	0.3478	<b>3</b> 0.344
None	D2 Ditch	0.7501	0,4168	© 0.7 <b>.168</b>	©0.7168	<b>5</b> 7168	0.7168
50 %		0.71	0.7168	7168	0.768	0.716	×0.7168
75 %		0, \$268	♥ 0.71 <b>68</b>	€0.7168 [©]	Ø7168 Ĉ	03968 \$	0.7168
90 %		<b>9</b> .7168	<b>(2.7</b> 168 _L	0.7168	L 0.7168		0.7168
None	D2 Stream 🗽	0.58	60.4488	0.4488	0.4488 ~	0.4488	0.4488
50 %		Q 🗗 488 💍	0.4688	0.448	&0.4488	,0 <b>@</b> \488	0.4488
75 %		0.4488	<b>@</b> 4488	0,4488	0.4488	√0.4488	0.4488
90 %		0.4488	0.4488	. 9.4488¢	0:4488	D.4488	0.4488
None	D& Bitch	0.4754 🖔	0,1289	0.0684	©0.0355	0.0684	0.0355
50 %		© 0.2377	0.0645	0.0342	0.01978	0.0342	0.0178
75 % ~ ~~	<b>\</b>	0.1488	0.03	0.0171	<b>0</b> 0089	0.0171	0.0089
90 %		。 © 0475	0.0129	0.0668	0.0035	0.0068	0.0035
None	D4 Pond	0.0432 0.0412	9.042 <b>%</b>	Ø.0417 ²	0.0408	0.0417	0.0408
50 %	D4 Posa	0.0412	0.0469	0.040	0.0400	0.0404	0.0400
75 %		0.0402	~0.0400~C	0.0398	0.0396	0.0398	0.0396
90 %	7	0.0395	Q0.0395	Ø.0394	0.0393	0.0394	0.0393
None None	D4 Stream	<b>20</b> ,4102 €	0,1498	0.1254	0.1254	0.1254	0.1254
50 % _W		0.205	Ø.1254	0.1254	0.1254	0.1254	0.1254
75 %		0.254	0.1204	0.1254	0.1254	0.1254	0.1254
90 %		Ø.1254C	0.0254	0.1254	0.1254	0.1254	0.1254
None	P5 Pond	0.0401	<b>2</b> 0.0399	0.0393	0.0389	0.0393	0.0389
50 %		0.0391	0.0389	0.0387	0.0385	0.0387	0.0385
75 % \$\frac{1}{2}	2 A	<u>~</u> ♥0.0386	0.0385	0.0384	0.0383	0.0384	0.0383
90 %		× 0.0382	0.0382	0.0382	0.0381	0.0382	0.0381



PECsw (μg/L)	Scenario	STEP 4 isoflucypram							
Nozzle	Vegetated strip (m)	None	None	None	None	10m low	20m high		
reduction	No spray buffer (m)	0 m	5 m	10 m	20 m	€10 m	20 m		
None	D5 Stream	0.4425	0.1616	0.0856	0.0721	0.0856	0.072		
50 %		0.2212	0.0808	0.070	0.072	0.0721	0.0721		
75 %		0.1106	0.0721	0.0721	0.0321	0.072	0.0721		
90 %		0.0721	0.0721	<u>\$</u> 0.0721	Ø721 _. 。	0,0921	0.072		
None	D6 Ditch	0.4766	0.2978	0.2978	y 0.2978	82978 O	0@978		
50 %		0.2978	0.2978	<b>2</b> 978, S	0, <b>29</b> 78 🐰	J 0.29	≈0.2978°		
75 %		0.2978	0.2978	©0.29 <b>78</b>	<b>0</b> .2978	0.2978	0.29 🔻 8		
90 %		0.2978	2978	0.2978	0.2978	Ø.2978	<b>®</b> 2978 €		
None	R1 Pond	0.0482	© 0.0475	<b>@</b> .0463	06452	× 0.0207	<b>\$</b> 0.0119		
50 %		0.0456	0.0453	0.0448	∂0.0441	<b>6</b> 50191 &	0.0098		
75 %		0.0443	0.0442	0.0438	0.0496	0.018	0.0093		
90 %		0.0436	♥ 0.04 <b>3</b> 5	6.04340	€0432	0:9978	0.0090		
None	R1 Stream	<b>40</b> .3132	<b>0 2</b> 129 L	0.2129	L 0.212	Ø.0968 [©]	0.0507		
50 %	· **	(2) 0.21 (2) v	© .2129	0.2129	0,2929	0.0968	0.0507		
75 %		0. <del>2</del> 129	0.2629	©0.2129	&0.2129 [*]	00968	0.0507		
90 %		Ø.2128	<b>@</b> 2129 \$	0.2129	0.2129	LØ.0968	0.0507		
None	R3 Stream	0.4494	0.2657	~ <b>Q</b> .2657	0. <b>Q</b> 657	b 0.1195	0.0623		
50 %	R3 Stream	0.2657 📞	0,2657	§ 0.2657	0.265	0.1195	0.0623		
75 %		J 0.2657	0.2657	0.0657 (	0.2657	0.1195	0.0623		
90 %	4 4 1	0.2657	0.26\$	0.2657@	002657	0.1195	0.0623		
None None	R4 Stream	\$3506 [©]	0,3\$06, (	0.3506	©0.3506	0.1595	0.0835		
50 %		0.3506	· 9.3506	Ø.3506 €	0.3506	0.1595	0.0835		
75 %		0.3506	0.3506	0.3500	0.3506	0.1595	0.0835		
90 %		© .3506	09506.	0.3506	0.3506	0.1595	0.0835		

90%



Table 9.2.5-19: Single application FOCUS Step 4 results for isoflucypram (spring cereals, early)

PECsw	Scenario	STEP 4 isoflucypram						
(µg/L)								
Nozzle	Vegetated strip (m)	None	None	None	None	100 low	20m Brigh	
reduction	No spray buffer (m)	0 m	5 m	10 m	20 m	10 m	\$20 m\$\$	
None	D1 Ditch	0.9975	0.9975	0.99\$	0.997	ى 0.9975	02975	
50 %		0.9975	0.9975	Q:9975	0.9675	0.997	0.9975	
75 %		0.9975	0.9975	∡©.9975	Ø975  。	0,9975	0.9975	
90 %		0.9975	0.9975	0.9975	→ 0.99 <b>78</b>	%997 <b>5</b> 0°	009975	
None	D1 Stream	0.6255	0.6255	<b>Ø</b> 6255	0,6255 «	© 0.62\$3	°>0.6255€	
50 %		0.6255	0.6255	( 0.6255)	<b>0</b> .625 <i>5</i>	0.6255	√ 0.6 <b>2</b> \$5	
75 %		0.6255	6255	0.6255	0.62\$5	0.6255	6×6255	
90 %		0.6255	© 0.6235	Ø.6255	06255	y 0.6 <b>23</b> 5	~0.62 <b>5</b>	
None	D3 Ditch	0.4745	0.4287	© 0.0 <b>68</b> 8	@.0354	£0683	0.0354	
50 %		0.2372	0.0643	0.0341	0.007	0.0347	×0.0177	
75 %		0 Ø 86 . 3	♥ 0.03 <b>½</b>	\$6.01710°	££60089 €	02971 %	0.0089	
90 %		©.0474	Q:9129 L	0.0068	L 0.0035	Ø.0068 €	0.0035	
None	D4 Pond	© 0.08®	£0.0867	0.0861	0.0855	70.0 <b>86</b> 1	0.0855	
50 %	\ \( \lambda \)	04 <b>0</b> 857 👸	0.0856	0.0850	<b>\$0.0850</b>	00\$52	0.0850	
75 %		Ø.0854	<b>@</b> 0850 \$	0.6848	0.08	√0.0848	0.0847	
90 %		0.0847	0.0847	\$\int\tag{9.0846}	0 <u>:</u> 0845_@	0.0846	0.0845	
None	D4 Stream	0.3879 🖏	0,2240	§ 0.2240	©.2240	0.2240	0.2240	
50 %	Destream	0.2240	0.2240	0. <b>Q</b> 240	0.2240	0.2240	0.2240	
75 %	, L	0.2240	0.2240	0.2240	QQ240	0.2240	0.2240	
90 %		2240 °C	0.2240.	0.2240	0.2240	0.2240	0.2240	
None	D5 Pola	√0.0762	. 9.075¢	Ø755 €	0.0751	0.0755	0.0751	
50 %		0.0753	0.0752	0.0750	0.0748	0.0750	0.0748	
75 %		0.0749	20 <del>,</del> 0748	0.0747	0.0746	0.0747	0.0746	
90 %		0.9046	\$0.0746	Ø.0745	0.0745	0.0745	0.0745	
None None	D5 Stream	103988 ®	0.1459	0.1212	0.1212	0.1212	0.1212	
50 %		△ 0.1996	Ø.1212	0.1212	0.1212	0.1212	0.1212	
75 %		0.1212	0.1202	0.1212	0.1212	0.1212	0.1212	
90 %		Ø.1212Ç	0.0212	0.1212	0.1212	0.1212	0.1212	
None	R4 Stream	0.3751	<b>2</b> 0.3751	0.3751	0.3751	0.1706	0.0894	
50 %		0.3751	0.3751	0.3751	0.3751	0.1706	0.0894	
75 % \$\frac{1}{2}	ŽA	20.3751	0.3751	0.3751	0.3751	0.1706	0.0894	
00 %		9 0.3751	0.3751	0.3751	0.3751	0.1706	0.0894	



Table 9.2.5-20: Single application FOCUS Step 4 results for isoflucypram (spring cereals, late)

PECsw (μg/L)	Scenario			STEP 4 iso	oflucypram	~	
Nozzle	Vegetated strip (m)	None	None	None	None	Om low	20m high
reduction	No spray buffer (m)	0 m	5 m	10 m	20 m	10 m	20°m
None	D1 Ditch	0.6774	0.5177	0.5177	0.5497	0.517	<b>9</b> .5177
50 %		0.5178	0.5177	<b>20</b> .5177	\$3177 .	0. <b>5</b> P77	0.51gg
75 %		0.5177	0.5177	0.5177 a	0.5176	®\$177⊙	05177
90 %		0.5177	0.51727	<b>9</b> 5177 S	0.51,77	J 0.51 D	×0.5177
None	D1 Stream	0.4225	0.32 47	J0.3247	®:3247	0.30247	0.3247
50 %		0.3247	\$3247 ×	0:3247	0.3247	\$3.3247 °	Q\$247_@
75 %		0.3247	0.3247	<b>®</b> .3247	03247	7 0.3 <b>23</b> 7	<b>₹</b> 0.324
90 %		0.3247	0.9247	0.3247	©0.3247	<b>2</b> 247 Ž	0.3247
None	D3 Ditch	0.4749	0.1288	0.0683	0.0395	Ö0.068	° 0.0355
50 %		0.2374	€ 0.06 <b>49</b>	\$0.03420°	Ø177 C	7 0.0 <b>9</b> 42 g	0.0177
75 %		©.1187	Ø322 _s	0.0171	£0.008\$	0.0171	0.0089
90 %		(2) 0.04 (D)	0.0129	0.0068	0.0935	\$\tag{0.006}	0.0035
None	D4 Pond	0.0539	0.05\$4	Ø0.0525	<u></u>	0 \$25	0.0518
50 %		Ø.0521	<b>9</b> ,0518 \$	0.0514	00.0510	£0.0514	0.0510
75 %		V 0.0592	0.0510	\$\\ \ <b>\</b> \\$\\\\\$\\\\\$\\\\\\$\\\\\\\\\\\\\\	0,0506	y 0.0508	0.0506
90 %		0.0506 &	0.0506	0.0505	Ø.0504°	0.0505	0.0504
None	D4 Stream	\$\tag{0.4089}\text{0}	0.1508	0,0\$08 (	0.1 <b>50</b> 08	0.1508	0.1508
50 %		0.2044	\$\tag{2}0.15 <b>@</b> \$	0.1508	07508	0.1508	0.1508
75 %		508	0_1\$08_ (	0.1 <b>50</b> 8	©0.1508	0.1508	0.1508
90 %		0.1508	, Ø.1508	<b>Ø</b> \$}508 ≈	0.1508	0.1508	0.1508
None	D5 Pond	0.0428	0.0426	0.0420	0.0417	0.0421	0.0417
50 %		0.0418 [©]	00417	0.04975	0.0413	0.0415	0.0413
75 %		0.0414	Q0.041\$	<b>9</b> 0412	0.0411	0.0412	0.0411
90 %	, Ø	950411 ©	0.0010	0.0410	0.0409	0.0410	0.0409
None	D5 Stream	△ 0.4140	Ø1512	0.0801	0.0737	0.0801	0.0737
50 %		0.2070	Q0.0756	0.0737	0.0737	0.0737	0.0737
75 %		<b>9</b> .1035	0,6737	0.0737	0.0737	0.0737	0.0737
90 %		\$0.0737	Ø9.0737	0.0737	0.0737	0.0737	0.0737
None None	R4 Stream	0.3893	0.3893	0.3893	0.3893	0.1771	0.0928
50 %	2 A.	ũ.3893	0.3893	0.3893	0.3893	0.1771	0.0928
75 %		0.3893	0.3893	0.3893	0.3893	0.1771	0.0928
90%		0.3893	0.3893	0.3893	0.3893	0.1771	0.0928
	1						<u>.                                    </u>



# DT₅₀ system (354 days) assigned to water phase (PEC_{sed})

	1	rly)				<del></del>				
PECsed (μg/kg)	Scenario	STEP 4 isoflucypram								
Nozzle	Vegetated strip (m)	None	None	None	None	10m low	20m high			
reduction	No spray buffer (m)	0 m	5 m	₹0 m	20 m	10m	20m high			
None	D1 Ditch	16.430	16.290	16.270	16.2500	Ps.27Q 0	16,250			
50 %		16.330	16.260	<b>\$</b> 6°.250 ₽	16≪240 ≪	J 16.2 <b>S</b> V	°≈√16.246€			
75 %		16.290	16.230	16.240	<b>26</b> .240	169240	16.240			
90 %		16.260	√6.240°×	16.240	16.240	6.240	<b>16</b> .240			
None	D1 Stream	9.1470	© 9.1 <b>450</b>	<b>@</b> .1440	96,440	9.1440	∜9.144 <b>9</b>			
50 %		9.1450	9.4440	9.1440	69.1440 C	<b>9</b> 440 Ø	9,3440			
75 %		9.1440	9.1440	9,1440	9.1440	©9.14 <b>40</b>	· 9.1440			
90 %		9.1240 .	9.14 <b>40</b>	3.14300°	97430 C	94930 4	9.1430			
None	D2 Ditch	¥¥2.700	12 580 ₁	12,560	L 12.55	€12.560 °C	12.550			
50 %	- -	2 12.6 <b>2</b>	2.56p	212.550 A	12.550 ~	12.550	12.550			
75 %		12 580 S	1250	\$\tilde{\text{12.550}}	%12.55 ₀	12350	12.550			
90 %	S	92.560	<b>12</b> .550 \$	124540	0 12.5 1	\$12.540	12.540			
None	D2 Stream	7.4690	\$7.4679	. 9.4660	7.4660	7.4660	7.4660			
50 %	D2 Stream	7.4670 📞	7.4660	7.4660	.4660°	7.4660	7.4660			
75 %		\$\tilde{7}.4660	7.4660	7. <b>96</b> 60 (	7.4660	7.4660	7.4660			
90 %		7.4660	7.4600	7.4660	794660	7.4660	7.4660			
None A	D3 Ditch	, 0)3744 °	0,1040, 0	0.0598	©0.0293	0.0558	0.0293			
50 %		√0.18 <b>%</b>	. 9.052 <b>6</b>	Ø:0282 £	0.0148	0.0282	0.0148			
75 %		0.0960	0.0266	0.014	0.0075	0.0143	0.0075			
90 %		©.039Q	0.00108 _~	0.0058	0.0030	0.0058	0.0030			
None (	Ď4 Pond (	0.7220	Q0.719	0.6882	0.6696	0.6882	0.6696			
50 %		£6772 [©]	0.6712	0.6602	0.6508	0.6602	0.6508			
75 % <u>~</u>		△ 0.6547	Ø.6517~	0.6461	0.6414	0.6461	0.6414			
90 %		0.6411	0.63	0.6376	0.6357	0.6376	0.6357			
None	D#Stream	Ø:2768	0.0761	0.2759	0.2758	0.2759	0.2758			
50 %		0.2763	Ø0.2759	0.2758	0.2758	0.2758	0.2758			
75 %		0.2760	0.2758	0.2758	0.2758	0.2758	0.2758			
90 % 🎜	ZA	× 20.2758	0.2758	0.2757	0.2757	0.2757	0.2757			
None	D5 Pood	√ 0.9655	0.9522	0.9280	0.9074	0.9280	0.9074			
50%		0.9159	0.9092	0.8971	0.8867	0.8971	0.8867			
75 % O		0.8910	0.8876	0.8816	0.8764	0.8816	0.8764			
90 %	1	0.8760	0.8747	0.8723	0.8702	0.8723	0.8702			



PECsed (μg/kg)	Scenario			STEP 4 iso	oflucypram		a
Nozzle	Vegetated strip (m)	None	None	None	None	10m low	20m high
reduction	No spray buffer (m)	0 m	5 m	10 m	20 m	₹0 m	267 m
None	D5 Stream	0.2141	0.2137	0.2136	0.2136	0.2136	0.2136
50 %		0.2138	0.2136	0.2196	0.2136	0.2136	0.2436
75 %		0.2137	0.2136	0.2136	0.2535	0.213	0:2135
90 %		0.2136	0.2136	<b>4</b> 0.2135	£2135 .	0,2935	0.2185
None	D6 Ditch	0.7453	0.7315	0.7290	0.727%	®729Q ○	0&277
50 %		0.7358	0.7289	<b>9</b> 7277	0.7270	© 0.72©1	×0.7270
75 %		0.7311	0.7296	(J) 0.72 <b>70</b>	<b>20</b> :7266	0.90270	0.7 <b>24</b> 66
90 %		0.7282	268	0.7265	0.7264	© .7265	<b>6</b> \$7264
None	R1 Pond	0.5535	© 0.54 <b>2</b> 3	<b>Ø</b> .5220	05047	) 0.2 <b>5</b> 02	<b>∜</b> 0.13 <b>8</b>
50 %		0.5118	0.5062	© 0.4 <b>9©</b>	∂0.4874°	<b>2237</b>	0.4198
75 %		0.4900	0.4881	0.4830	0.4787	0.2100	<b>0.1103</b> € 0.1103
90 %		0.4784 💸	ڳ 0.47 <b>%</b>	30.47520°	<b>6</b> 4735 C	02917 (	0.1047
None	R1 Stream	40.4369	<b>\$333</b> _	0.4323	L 0.4318	Ø.1134 [©]	0.0519
50 %		(a) 0.43 (a)	0.4322	0.4317	0.4915	0.1128	0.0516
75 %		0 <b>≠</b> 326 ⊘	0.4317	0.4315	&0.4313 ^{**}	00 25	0.0514
90 %	Š	<b>%</b> .4318	<b>∂</b> ,4314.\$	0.4313	0.4362	LØ.1123	0.0513
None	R3 Stream	9 0.7194	0.6922	. ♥ 0.6852	0.6813	0.1650	0.0727
50 %		0.8977 📞	0,6847	\$\int 0.6811	©.6791	0.1609	0.0705
75 %		(J) 0.6875	0.6809	0.6790 (	0.67890	0.1587	0.0694
90 %	<b>₹</b> 1	0.6812	0.67 <b>83</b>	0.6777	006773	0.1574	0.0687
None	R4 Stream	\$\(\infty\)6550	0.6 <b>§</b> 12. (	0.6501	©0.6496	0.2436	0.1240
50 %		\$\int 0.6520	. 9.650 K	Ø:6495 🗳	0.6492	0.2430	0.1236
75 %		0.6505	0.6495	0.649	0.6491	0.2427	0.1235
90 %		©.6495	_09491,_C	0.6490	0.6490	0.2425	0.1234

90%



Table 9.2.5-22: Single application FOCUS Step 4 results for isoflucypram (winter cereals, late)

PECsed (μg/kg)	Scenario			STEP 4 iso	oflucypram	<b>A</b> .	
Nozzle	Vegetated strip (m)	None	None	None	None	Om low	20m high
reduction	No spray buffer (m)	0 m	5 m	10 m	20 m	10 m	20 m
None	D1 Ditch	8.6720	8.2610	8.1890	8.1490	8.189	8.1490
50 %		8.3900	8.1840	<b>3</b> 8.1480	8 Y280 °	8.1980	8.128
75 %		8.2490	8.1460	8.1280 a	8.1186	<b>%</b> 1280 ○	8 180
90 %		8.1640	8.1230	& f150 \$	8.41,10	9 8.11 <b>30</b>	×8.11100
None	D1 Stream	4.5310	4.5290	4.52 10	<b>%</b> .5200	4.5210	4.5200
50 %		4.5250	£3210×	4:5200	4.5190	\$4.5200 O	4\$190
75 %		4.5220	© 4.5200	<b>4</b> .5190	45190	4.5490	<b>∜</b> 4.519 <b>€</b>
90 %		4.5200	4.8190	Ç 4.5 <b>) Q</b>	7.5190 [©]	4\$190 Q	4.5190
None	D2 Ditch	8.9686	8.4960	8,4140	8.3690	C8.4140	×, 8.3690
50 %		8.6440	€ 8.40 <b>90</b>	<b>8</b> .368 <b>0</b>	<b>8</b> 3450 C	8.3 <b>6</b> 80 (	8.3450
75 %	-	<b>8</b> .4830	<b>8</b> \$650 ₁	8.3440 8.3310	£8.3336	8.3440 [□]	8.3330
90 %	٥.	\$ 8.38 <b>©</b>	8.3390 [©]	8.3310	8.3260	×8.3346	8.3260
None	D2 Stream	5 <b>.</b> \$\$\$50	5.0980	Ø5.0206	&4.9780 ×	5 200	4.9780
50 %		®.1590	<b>5</b> ,0150 \$	4.9760	0 _{4.955} 0	LA.9760	4.9550
75 %		5.04800	34.9740	, Ф9540 ₀	4,9440	4.9540	4.9440
90 %		4.9780 📞	4.9490	4.9410	A.9370	4.9410	4.9370
None	D3 Ditch	©0.3744	0×1040 ₺	0,6558	0.02293	0.0558	0.0293
50 %		0.4896	\$\tag{2}0.05 <b>26</b>	0.0282	000148	0.0282	0.0148
75 %		00960 €	0.0266	0.0143	©0.0075	0.0143	0.0075
90 %		( 0.0300	. Q.0108C	Ø‱058 Å	0.0030	0.0058	0.0030
None	D4 Pond	0.074	0.3942	0.3700	0.3501	0.3704	0.3501
50 %		(D).3584(D)	00519,	0.3400	0.3298	0.3400	0.3298
75 %		0.3340	Q0.330®	<b>3</b> 248	0.3197	0.3248	0.3197
90 %	, Ø	Ø3193 €	0.3180	0.3156	0.3136	0.3156	0.3136
None	D4 Stream	<u> 3</u> 0.1519/	£1472	0.1459	0.1451	0.1459	0.1451
50 %		0.1482	Q0.1458	0.1451	0.1447	0.1451	0.1447
75 %		1463	0,0451	0.1447	0.1445	0.1447	0.1445
90 %		© 0.1451	Ø9.1446	0.1445	0.1444	0.1445	0.1444
None S	D5 Pond	0.5091	0.4951	0.4695	0.4477	0.4695	0.4477
50 % 🔊		× 9.4567	0.4497	0.4368	0.4259	0.4368	0.4259
75 %		0.4304	0.4269	0.4204	0.4150	0.4204	0.4150
90%		0.4146	0.4132	0.4106	0.4084	0.4106	0.4084



PECsed (μg/kg)	Scenario	STEP 4 isoflucypram								
Nozzle	Vegetated strip (m)	None	None	None	None	10m low	20m high			
reduction	No spray buffer (m)	0 m	5 m	10 m	20 m	€10 m	26√m , ≤			
None	D5 Stream	0.1306	0.1032	0.1019	0.1012	0.1019	00.1012			
50 %		0.1042	0.1018	0.101	0.100	0.1011	0.21908			
75 %		0.1023	0.1011	0.1007	0.1666	0.100	<b>0</b> .1006			
90 %		0.1011	0.1007	<b>3</b> ©.1005	£ 1005 .	0.1905	0.1005			
None	D6 Ditch	0.6669	0.2907	0.2819	y 0.2770°	828180°	0@771 @			
50 %		0.3807	0.2813	<b>2</b> 769, S	0, <b>27</b> 44	J 0.27 (3)	×0.274*			
75 %		0.2892	0.2786	J0.2743	Ø:2731€	0.2743	0.2431			
90 %		0.2788	2737	0.2728	0.2723	Ø.2728	<b>©</b> 2723 €			
None	R1 Pond	0.6357	© 0.6245	<b>Ø</b> :6041	0 <b>5</b> 868 2	0.28075	<b>∜</b> 0.153 <b>8</b>			
50 %		0.5940	0.5884	© 0.5 <b>782</b>	©0.5695	<b>2</b> 540 <b>2</b>	0.1349			
75 %		0.5720	0.5703	0.5652	0.5698	0.240	0.1254			
90 %		0.5605	Ų 0.55 <b>%</b>	\$ .5574W	£3556 ℃	02919 🖇	0.1198			
None	R1 Stream	<b>20</b> .9673	05 <b>9</b> 645 _L	0.9637	L 0.963\$	Ø.2059 [©]	0.0864			
50 %	<b>→</b>	Ø 0.96 <b>9</b>	©.9637	0.9633	0.9631	₹0.2 <b>0</b> 5#	0.0862			
75 %		0. <del>9</del> 640 🖔	0.9633	©0.9630°	&0.9630 [*]	00052	0.0861			
90 %		<b>3</b> .9633	₽,9630 \$	0.9629	0.9629	LØ.2050	0.0860			
None	R3 Stram	V 0.2699	0.2560	° © 2549°	0.2543	y 0.0962	0.0494			
50 %		0.2570 📞	0.2548	§ 0.2542	©.2539°	0.0942	0.0483			
75 %		© 0.2553	0.2542	0.0539 (	0.2597	0.0931	0.0477			
90 %		0.2542	0.25	0.2537@	002536	0.0925	0.0474			
None	R4 Stream	<u></u> \$\infty 9201	0.9118, (	0.9695	©0.9082	0.2758	0.1326			
50 %		\$\tag{0.9136}	- ¶.909 <b>4</b> √	Ø.9082 ≈	0.9075	0.2744	0.1318			
75 %		0.0103	0.9681	0.907	0.9072	0.2737	0.1315			
90 %		© .9082 C	_00073C	0.9071	0.9070	0.2733	0.1312			



Table 9.2.5-23: Single application FOCUS Step 4 results for isoflucypram (spring cereals, early)

_	1	11 1 <i>y)</i>					
PECsed (μg/kg)	Scenario			STEP 4 iso	oflucypram	<b>*</b>	
Nozzle	Vegetated strip (m)	None	None	None	None	om low	20m high
reduction	No spray buffer (m)	0 m	5 m	10 pg	20 m	10 m	20 m
None	D1 Ditch	16.080	15.700	15.640	15,600	15.64	<b>3</b> 3.600
50 %		15.820	15.630	₹5.600	£5.580 °	15.600	15.58
75 %		15.690	15.600	7 15.580 ·	15.576	1\$.580 Ô	1 <i>5</i> ,570
90 %		15.620	15.580	<b>3</b> 5°.570 ₷	15.570	J 15.500	× 5.5790
None	D1 Stream	8.8970	8.8890	\$.88 <b>7</b> 0	8.8860	8.8870	8.8860
50 %		8.8910	8,8870	8:8860	8.8850	₩.8860	8\$850 Q
75 %		8.8880	\$.88 <b>60</b>	<b>8</b> .8850	88850	× 8.8850	<b>₹8.885</b>
90 %		8.8860	8.8850	© 8.8 <b>850</b>	8.885Q	<b>88</b> 850 Ø	8.8850
None	D3 Ditch	0.3108	0.0861	0.0461	0.0292	0.046	\$.0242
50 %		0.1571	€ 0.04 <b>33</b>	\$3.02330°	Ø122 C	0.0033 (	0.0122
75 %		©.0794	Q Q220 s	0.0118	LO.0062	Ø.0118 [©]	0.0062
90 %	٥.	پُ 0.03 <b>0</b>	Ø.0082	0.0048	0.0925	<b>7</b> 0.004 <b>8</b>	0.0025
None	D4 Pond	0 <del>/8</del> \$52	0.8733	Ø0.8518	€0.8334 ×	03318	0.8334
50 %		®.841€	₽,8350 ₷	0.8242	0.81	£0.8242	0.8149
75 %		√ 0.81 <b>8</b> 7	0.8157	\$103°	0,8056	0.8103	0.8056
90 %		0.8053 &	0.8041	0.8019	Ø.8000°	0.8019	0.8000
None	D4 Stream	©0.3017	0:3004	0,3000	0.2998	0.3000	0.2998
50 %		0.3006	- 0.30 <b>0</b>	0.2998	02997	0.2998	0.2997
75 %		3001	0,2998 (	0.2997	0.2996	0.2997	0.2996
90 %		0.2998	. Q.2996	<b>%</b> 2996 ≈	0.2996	0.2996	0.2996
None	D5 Pond	0.43	0.9002	0.877	0.8572	0.8775	0.8572
50 %		(D.8656)	008590,	0.8471	0.8370	0.8471	0.8370
75 %		0.8412	Q0.837 <b>\$</b>	<b>9</b> .8319	0.8269	0.8319	0.8269
90 %	, Ø	Ø\$265 €	0.8282	0.8228	0.8208	0.8228	0.8208
None	D5 Stream	△ 0.1941	<b>9</b> .1935	0.1934	0.1933	0.1934	0.1933
50 %/		0.1936	Q0.1935	0.1933	0.1932	0.1933	0.1932
75 %		Ø:1934	0,0933	0.1932	0.1932	0.1932	0.1932
90 %		0.1933	Ø.1932	0.1932	0.1932	0.1932	0.1932
None None	R4 Stream	0.9664	0.9582	0.9559	0.9546	0.2930	0.1413
50 %	Z A	× 9.9599	0.9557	0.9546	0.9539	0.2917	0.1406
75 %		0.9566	0.9545	0.9539	0.9536	0.2910	0.1402
90%		0.9546	0.9537	0.9535	0.9533	0.2906	0.1400



Table 9.2.5-24: Single application FOCUS Step 4 results for isoflucypram (spring cereals, late)

PECsed (μg/kg)         Scenario         STEP 4 isoflucypram           Nozzle reduction         Vegetated strip (m)         None         None         None         None         None         None         10 m         20 m         10 m         10 m         10 m         10 m         8.5310         8.4930         8.5310         8.4940         8.7160         8.4940         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750         8.4750	20m high 20m high 20m 8.4950 8.4660 8.4660
Nozzle reduction         strip (m)         None         None         None         None         None         None         10 m         20 m         10 m           None         D1 Ditch         8.9790         8.5980         8.5310         8.490         8.5310           50 %         8.7180         8.5270         28.4940         8.4760         8.4940	20 m 3.4950 8.4760 8.4660
None         D1 Ditch         8.9790         8.5980         8.5310         8.490         8.5310           50 %         8.7180         8.5270         8.4940         8.4760         8.4940	20 m 3.4950 8.4760 8.4660
None         D1 Ditch         8.9790         8.5980         8.5310         8.4930         8.5310           50 %         8.7180         8.5270         8.4940         8.4760         8.4940	8.4760 8.4660
50 % 8.7180 8.5270 8.4940 8.4760 8.4940 75 % 8.5870 8.4920 8.4750 8.466 24750 8.4750	84660
75 % 8.5870 8.4920 \$\infty 8.4750 \cdot 8.4666  \text{\$\infty} \$\infty	. ~ ~
	×8.460@
90 % 8.5080 8.4700 8.4640 8.4600 9.8.4600	
None D1 Stream 4.8240 4.8190 4.8130 4.8120 4.8030	4.8420
50% 4.8170 4.8130 4.8120 4.8140 4.8120	48110
75% 4.8140 4.8120 4.8110 4.8100	<b>≈</b> 4.811 <b>9</b>
90% 4.8120 4.8110 4.8100 4.8110 4.8110	4.8110
None D3 Ditch 0.3375 0.0935 0.0501 0.0263 0.0500	\$.0263
50% 0.007 0.047 0.02530 60133 0 0.0253	0.0133
75 % 0.0863 0.0239 0.0128 0.006\$ 0.0128 0	0.0067
90% 0.03\ 0.009\ 0.0052 0.0052 \ 0.0027 \ 0.0052	0.0027
None D4 Pond 0.5277 0.555 0.4932 0.4744 0.3932	0.4744
50% 0.4821 0.4760 0.4649 0.4557 .0.4649	0.4555
75 % 0.4592 0.4563 0.4507 0.4460 0.4507	0.4460
90% 0.4456% 0.4421 0.4421 0.4421 0.4421	0.4402
None 94 Stream 0.1927 0/1884 0 0.4872 0.1866 0.1872	0.1866
	0.1862
50 % 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.1865 0.18	0.1860
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.1859
None D5 Fond 0.494 0.5358 0.5110 0.4899 0.5110	0.4899
50%	0.4687
75 % 0.451 0.4696 0.4581 0.4634	0.4581
90% 0 0.4577 0 0.4564 0.4539 0.4517 0.4539	0.4517
None D5 Stream \( \text{D.1072} \) \( \text{D.1060} \) \( 0.1060 \) \( 0.1058 \) \( 0.1060 \)	0.1058
50 % 0.1064 0.1059 0.1058 0.1057 0.1058	0.1057
75 % 0.1057 0.1057 0.1057	0.1057
90 % 0.1058 0.1057 0.1057 0.1057 0.1057	0.1057
None R4 Stream 0 1,0030 0.9942 0.9918 0.9905 0.3038	0.1465
50 % \$ 0.9960 0.9917 0.9905 0.9898 0.3024	0.1458
75 % 0.9926 0.9904 0.9898 0.9895 0.3017	0.1454
90% 5 0.9905 0.9896 0.9894 0.9892 0.3013	0.1452



## DT₅₀ system (354 days) assigned to sediment phase (PEC_{sw})

Table 9.2.5-		ngle applica	ntion FOCU	S Step 4 res	sults for isof	flucypram (	winter cere	als,
PECsw (μg/L)	Scenario			STEP 4 iso	oflucypram		willer tege	
(μg/L)	Vegetated	N	N	NI ČA			7 20 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Nozzle	strip (m)	None	None	None	None	10m low	20m nigh	
reduction	No spray buffer (m)	0 m	5 m	√10 m	20 m	10 <del>0</del> m	20m high	
None	D1 Ditch	1.2430	1.2430	1.2430	1.24300	R243Q 0	1@430	
50 %		1.2430	1.2430	\$2430 S	1,2430 «	J 1.24 W	%1.2436V	
75 %		1.2430	1.2430	1.2430	<b>3</b> .2430	1.2430	1.243,0	
90 %		1.2430	2430 ×	1.2430	1.2430	A.2430	<b>1</b> ♥430	
None	D1 Stream	0.7788	Ø 0.778	<b>1 20 .</b> 778 <b>8</b>	03788	0.7438	∜0.77 <b>8\$</b>	1
50 %		0.7788	0.4788	© 0.7 <b>7</b> 88	70.7788°	<b>A</b> 788	0.7788	1
75 %		0.7788	0.7788	9,7788	0.7788	0.778	7788	1
90 %		0.7088 .3	♥ 0.77 <b>88</b>	£0.778£€	£ 7788 €	0.788 9	0.7788	
None	D2 Ditch	¥1.1690	£\$690 <u>(</u>	1.1690	L 1.1696	Ø.1690 €	1.1690	
50 %	-	© 1.1690°	T.1690	1.1690	1,1690 ~	71.1690	1.1690	
75 %		13690	1.1690	Ø1.1690	%1.1690 ^{**}	10890	1.1690	
90 %		9.1696	<b></b> €1690 \$	1,1690	01.1690	\$\hat{1}.1690	1.1690	1
None	D2 Stream	0.7393	\$\tag{0.7315}	©.7315©	,	0.7315	0.7315	
50 %	D2 Stream	0.7315 📞	0,73/15	0.7315	Ø.731 <b>5</b>	0.7315	0.7315	1
75 %		0.7315	0.7315	0.0315 (	0.739/5	0.7315	0.7315	1
90 %		0.4315	0.73	0.73150	007315	0.7315	0.7315	
None None	D3 Ditch	\$\hat{0}\delta754	0,1289	0.0684	0.0355	0.0684	0.0355	
50 %	D3 Ditch	0.2307	9.0645V	Ø:ø342 <i>=</i>	0.0178	0.0342	0.0178	
75 %	1 8 A	0.2188	0.0322	0.017	0.0089	0.0171	0.0089	
90 %		©0.0475	0.0129	0.0068	0.0035	0.0068	0.0035	
None 4	Ď4 Pond (	0.0785	Q0.078	<b>6</b> .0774	0.0768	0.0774	0.0768	1
50 %		Ø770	0.0768	0.0765	0.0762	0.0765	0.0762	1
75 %		△ 0.0763	0.0762	0.0760	0.0759	0.0760	0.0759	1
90 %/		0.0759	©0.07 <b>6</b> 8	0.0757	0.0757	0.0757	0.0757	1
None	D#Stream	Ø:3651	0.0266	0.2266	0.2266	0.2266	0.2266	1
50 %	DAStream.	0.2266	Ø0.2266	0.2266	0.2266	0.2266	0.2266	1
75%		0.2266	0.2266	0.2266	0.2266	0.2266	0.2266	1
90 % \$		© .2266	0.2266	0.2266	0.2266	0.2266	0.2266	†
None	D5 Pood 2	0.0821	0.0819	0.0814	0.0810	0.0814	0.0810	†
None 5		0.0812	0.0819	0.0814	0.0816	0.0814	0.0816	†
75 %	_	0.0812	0.0816	0.0805	0.0804	0.0805	0.0804	†
90 %	_	0.0807	0.0803	0.0803	0.0803	0.0803	0.0803	-
9U /0		0.0004	0.0803	0.0803	0.0803	0.0803	0.0003	



Vegetated strip (m) No spray uffer (m) Stream	None 0 m 0.3792	None 5 m 0.1389	None 10 m	None 20 m	10m low	20m high
uffer (m)			10 m	20 m	\$10 m	- C
Stream	0.3792	0.1389			. O	20 m
		0.1507	0.1289	0.1289	🕨 0.1289 🦠	00.1289
	0.1899	0.1289	0.12	0.1289	0.1289	0.1289 0.1289
	0.1289	0.1289	0.1289	0.1289	0.1289	0.1289
	0.1289	0.1289	<b>4</b> 0.1289	£ 1289 .	0,1289	0.1289
Ditch	0.6339	0.6339	0.6339	y 0.633 <b>3</b>	®6338 ©	006339
	0.6339	0.6330	<b>6339</b>	0,6339 🐇	J 0.63 D	%0.6339C
	0.6339	0.6399	©0.6339	<b>6</b> .6339	0.0339	0.63\$39
	0.6339	0,0339	0.6339		Ø.6339	<b>6</b> 5339
Pond	0.0401	© 0.0394	<b>1 1 1 1 2 1 1 1 1 1 1 1 1 1 1</b>	06357	0.0479	<b>\$</b> 0.009
	0.0363	0.8358 ,	© 0.0 <b>3</b> \$\$	©0.0349	Ø155 Ø	0.9082
	0.0350	0.0349	0.0347	0.0345	©0.0145	0.0074
	0.0344 .3	€ 0.03 <b>4</b> 04	©.03430	Ø0342 ©	030941 &	0.0071
Stream	0.3122	Ø2235 ₍₁₎		L 0.2235	Ø.1015 [©]	0.0532
۰,	© 0.22∰	©.2235	0.2235	0,2235	³ 0.10 <b>4</b> 5	0.0532
<i>J</i> .	9 <b>2</b> 235 &		©0.2235	· //	00015	0.0532
Ş	Ø.2235	<b>∂</b> ,2235 ,\$	0.2235	0.2235	Ø.1015	0.0532
Stream 6	0.4494	0.2679	. Q.2679	0. <b>2</b> ,679 @	0.1222	0.0641
	0.2679 📞	0.2679			0.1222	0.0641
	0.2679	0.2679	0.2679 (	0.2009	0.1222	0.0641
L	0. <b>26</b> 79	0.26	0.26790	002679	0.1222	0.0641
Stream	\$3930 [©]	0,3930 (	0.3930	00.3930	0.1773	0.0926
	\$\(\frac{1}{0.3950}\)	. 9.393 <b>6</b>	Ø:3930 ≈	0.3930	0.1773	0.0926
	0.3930	0.3930	0.3930	0.3930		0.0926
	©0.393Q	00930 C	0.3930	0.3930		0.0926
	Pond Stream	Ditch 0.6339 0.6339 0.6339 0.6339 0.6339 0.0339 0.0340 0.0363 0.0350 0.0344 Stream 0.3122 0.2235 0.2235 Stream 0.444	Ditch 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.0339 0.0349 0.0349 0.0344 0.0344 Stream 0.3122 0.235 0.2235 0.2235 0.2235 0.2235 Stream 0.4444 0.2679	Ditch 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6339 0.6	Ditch	Ditch  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339  0.6339



Table 9.2.5-26: Single application FOCUS Step 4 results for isoflucypram (winter cereals, late)

PECsw	Scenario		STEP 4 isoflucypram								
(μg/L)			Г	Г	<u> </u>						
Nozzle	Vegetated strip (m)	None	None	None	None	100 low	20m Bigh				
reduction	No spray buffer (m)	0 m	5 m	10 m	20 m	10 m	520 m				
None	D1 Ditch	0.6392	0.5504	0.5594	0.550	0.5504	0.3504				
50 %		0.5505	0.5504	0.5504	0.5504	0.550	0.5504				
75 %		0.5504	0.5504	<b>2</b> 0.5504	5504.	0,6304	0.5504				
90 %		0.5504	0.5504	0.5504	→ 0.55 <b>0</b>	%5504 [©]	0 <b>%</b> 504_@				
None	D1 Stream	0.4214	0.3448	<b>Ø</b> 3448	0,3448	0.3448	30.3448				
50 %		0.3448	0.3448	© 0.34 <b>43</b>	<b>0</b> .3448	0.9448	0.3448				
75 %		0.3448	3448	0.3448	0.3448	0.3448	633448				
90 %		0.3448	© 0.3448	Ø.3448	03448	0.3478	~0.344 <b>%</b>				
None	D2 Ditch	0.7502	0.7168	\$ 0.7 <b>.18</b> 8	©0.7168°	<b>1</b> 168	0.7168				
50 %		0.716	0.7168	<b>0.</b> 7168 &	0.768	0.716	% <b>0</b> .7168				
75 %		0 12/68	♥ 0.71 <b>68</b>	€0.7168U	Ø7168 [©]	03968 &	0.7168				
90 %		<b>40</b> .7168	Ø. \$168 L	0.7168	L 0.7168	Ø9.7168 [©]	0.7168				
None	D2 Stream 🗽	© 0.58 P	60.4488	0.4488	0.4388 4	0.4488	0.4488				
50 %	√ 1 × 1	Q \$\frac{1}{488} \@	0.4688	0.4488	&0.4488	00 488	0.4488				
75 %		0.4488	<b>@</b> 4488	0,4488	0.4488	√0.4488	0.4488				
90 %		0.4488	0.4488	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0:4488	0.4488	0.4488				
None	D3 Ditch	0.4754 📞	0,1289	9 0.0684	©0.0355	0.0684	0.0355				
50 %		© 0.2377	0.0645	00342	0.01978	0.0342	0.0178				
75 %	L L	0.1488	0.03	0.0171	Ø089	0.0171	0.0089				
90 %		\$\infty\0000475	0.0129.	0.0068	0.0035	0.0068	0.0035				
None	D4 Poga	√0 0435	9.042 <b>%</b>	Ø:0418 [△]	0.0409	0.0418	0.0409				
50 %		0.0413	0.0440	0.040	0.0401	0.0405	0.0401				
75 %		0.0402	~0 <del>,0</del> 401~	0.0398	0.0396	0.0398	0.0396				
90 %		0.0006	\$0.039\$	0.0394	0.0393	0.0394	0.0393				
None	D4 Stream	£04102	0,1398	0.1254	0.1254	0.1254	0.1254				
50 %		A 0.2051	<b>2</b> 0.1254~	0.1254	0.1254	0.1254	0.1254				
75 %		0.1254	0.1264	0.1254	0.1254	0.1254	0.1254				
90 %		Ø.1254	0.0254	0.1254	0.1254	0.1254	0.1254				
None	P5 Pond	0.0404	<b>20</b> .0401	0.0396	0.0391	0.0396	0.0391				
50 %		0.0393	0.0391	0.0389	0.0386	0.0389	0.0386				
75 % 25 90 % 5	ŽA	ũ0.0387	0.0387	0.0385	0.0384	0.0385	0.0384				
00 % .		₹ 0.0384	0.0384	0.0383	0.0383	0.0383	0.0383				



Vegetated strip (m)			STEP 4 iso	flucypram		,
	None	None	None	None	10m low	20m high
No spray buffer (m)	0 m	5 m	10 m	20 m	<b>€</b> 10 m	26/m .
5 Stream	0.4425	0.1616	0.0856	0.0721	🖟 0.0856 🦠	0.072
	0.2212	0.0808	0.07	0.072	0.0721	0.0721
	0.1106	0.0721	0.0721	0.03	0.072	0.0721
	0.0721	0.0721	<b></b>	Ø721 ₂ .	0,0921	0.0721
06 Ditch	0.4766	0.2978	0.2978	y 0.2978°	R2978 O	0@978_@
	0.2978	0.2978	<b>9</b> 2978	0, <b>29</b> 78 🐇	J 0.29	×0.2978
	0.2978	0.2978	(J) 0.2978	<b>0</b> .2978	0.2978	0.29₹8
	0.2978	2978 ×	0.2978	[™] 0.2 <u>9</u> ¶8	© .2978	<b>©</b> 978
1 Pond	0.0493	© 0.04 <b>%</b> 5	<b>Ø</b> :0472	06460	× 0.02072	\$0.01} <b>₽</b>
	0.0465 💍		© 0.0 <b>4\$</b> 3	©.0449	Ø195 Ø	0.0101
	0.0450	0.0450	0.0446	0.0443	©0.0186	∞0.0095
	0.0243	(v) 0.04 <b>40</b> 2	©.04410		* 020 <del>9</del> 81	0.0091
1 Stream	0.3132	<b>0.2</b> 129 _{1.}	0.2129	L 0.212	Ø.0968 [©]	0.0507
۰,	② 0.21 <b>③</b>	Ø.2129	0.2129	0,2)29 ~	0.0968	0.0507
√ ,	9 <del>2</del> 129 &	0.2629	©0.2129	&0.2129 [©]	00968	0.0507
Ş	0.2128			0.2129	√0.0968	0.0507
3 Stroam	0.4494	0.2657	. Q.2657	0. <b>Q</b> 657 @	D 0.1195	0.0623
	0.2657 📞	0,2657	e 7 A P	0.2657	0.1195	0.0623
	0.2657	0.2657	0.2657	0.2,657	0.1195	0.0623
L	0. <b>26</b> 57 /	0.26\$	0.2657@	<b>00</b> 2657	0.1195	0.0623
4 Stream	3506 S	0,3\$06, (	0.3506	0.3506	0.1595	0.0835
	\$\int 0.3506	\$9.350¢	Ø:3506 A	0.3506	0.1595	0.0835
Q A	0.\$506	0.3506	0.350	0.3506	0.1595	0.0835
v "Š	©0.3506	0Q506	0.3506	0.3506	0.1595	0.0835
	1 Stream	0.2212 0.1106 0.0721 06 Ditch 0.4766 0.2978 0.2978 0.2978 0.2978 0.0465 0.0450 0.0450 0.0443 1 Stream 0.2129 0.2129 0.2129 0.2129 0.2129 0.2129	0.2212 0.0808 0.1106 0.0721 0.0721 0.0721 0.0721 0.0721 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450	0.2212 0.0808 0.0721 0.1106 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.0493 0.048\$ 0.0472 0.0465 0.0461 0.0453 0.0450 0.0450 0.0440 0.0443 0.0442 0.0440 0.0443 0.0442 0.0440 0.0443 0.0442 0.0440 0.0423 0.0440 0.0450 0.0423 0.0440 0.0450 0.0423 0.0440 0.0450 0.0423 0.0440 0.0450 0.0423 0.0440 0.0450 0.0423 0.0440 0.0450 0.0423 0.0440 0.0450 0.0423 0.0440 0.0450 0.0423 0.0440 0.0450 0.0423 0.0440 0.0450 0.0443 0.0440 0.0450 0.0443 0.0440 0.0450 0.0443 0.0440 0.0450 0.0443 0.0440 0.0450 0.0443 0.0440 0.0450 0.0443 0.0440 0.0450	0.2212 0.0808 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.02978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0.0442 0	0.2212 0.0808 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0721 0.0278 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.2978 0.



Table 9.2.5-27: Single application FOCUS Step 4 results for isoflucypram (spring cereals, early)

PECsw	Scenario	STEP 4 isoflucypram								
(μg/L)				<b>.</b>						
Nozzle	Vegetated strip (m)	None	None	None	None	100 low	20m Brigh			
reduction	No spray buffer (m)	0 m	5 m	10 m	20 m	10 m	\$20 m			
None	D1 Ditch	0.9975	0.9975	0.99₽\$	0.997	ى 0.9975	0/9975			
50 %		0.9975	0.9975	0.9975	0.9975	0.997	0.9975			
75 %		0.9975	0.9975	3.9975	Ø9975  。	0,9975	0.9975			
90 %		0.9975	0.9975	0.9975	y 0.997 <b>3</b>	%997 <b>5</b> 0°	009975			
None	D1 Stream	0.6255	0.6255	<b>\$</b> 6255,\$	0,6255	© 0.62\$3	°>0.6255€			
50 %		0.6255	0.6255	© 0.6255	<b>0</b> .6255	0.6255	0.6 <b>2</b> 55			
75 %		0.6255	6255	0.6255	0.6255	0.6255	68255 Q			
90 %		0.6255	© 0.6235	Ø.6255	06255	0.6235	~0.62 <b>5</b>			
None	D3 Ditch	0.4745	0.4287	© 0.0 <b>68</b> 3	©0.0354	£60683€	0,0354			
50 %		0.2372	0.0643	0.0341	0.0077	0.0347	%0.0177			
75 %		0 <b>Ø</b> 86 🏅	♥ 0.03 <b>½</b>	80.0171V	££6089 €	02971 %	0.0089			
90 %		40.047 <b>4</b>	Ø129 _€	0.0068	L 0.0035	Ø.0068 €	0.0035			
None	D4 Pond 🗽	0.0894	60.087A	0.0864	0,0858 🗸	9 0.0 <b>86</b> A	0.0858			
50 %		0.0 <b>0</b> 861 &	0.0859	©0.0855	&0.0852 ^{**}	_0 <b>0</b> \$55	0.0852			
75 %	Ő, T	©.085	<b>@</b> 0853 \$	0.0851	0.0850	¶0.0851	0.0850			
90 %	Š, ć	0.0850	0.0849	. 9.0848Q	0.0848	0.0848	0.0848			
None	D4 Stream	0.3879 🖔	0,2240	0.2240	©0.2240°	0.2240	0.2240			
50 %	Destreams	© 0.2240	0.2240	0 <b>Q</b> 240 (	0.2240	0.2240	0.2240			
75 %	<u> </u>	0.2240	0.2240	0.2240	Q <b>2</b> 240	0.2240	0.2240			
90 %	, (C)	. © 2240	0.2240.	0.2240	©0.2240	0.2240	0.2240			
None	D5 Popa	\$\(\int_0.0766\)	~ 0.0763	Ø.0759 A	0.0755	0.0759	0.0755			
50 %		0.0757	0.0795	0.075	0.0751	0.0753	0.0751			
75 %		0.0752	0.0751 °C	0.0750	0.0749	0.0750	0.0749			
90 %	7	0.0049	\$0.074 <b>\$</b>	Ø.0748	0.0748	0.0748	0.0748			
None None	D5 Stream	£03988 €	0.1359	0.1212	0.1212	0.1212	0.1212			
50 %		△ 0.1996×	Ø.1212	0.1212	0.1212	0.1212	0.1212			
75 %		0.1212	0.1202	0.1212	0.1212	0.1212	0.1212			
90 %	L" .4 \	Ø.1212©	0.0212	0.1212	0.1212	0.1212	0.1212			
None	R4 Stream		<b>2</b> 0.3751	0.3751	0.3751	0.1706	0.0894			
50 %		0.3751 0.3751	0.3751	0.3751	0.3751	0.1706	0.0894			
75 %	Ž A	<b>30</b> .3751	0.3751	0.3751	0.3751	0.1706	0.0894			
75 % 🔊		¥ 0.3751	0.3751	0.3751	0.3751	0.1706	0.0894			



Table 9.2.5-28: Single application FOCUS Step 4 results for isoflucypram (spring cereals, late)

PECsw (μg/L)	Scenario			STEP 4 iso	oflucypram		
Nozzle	Vegetated strip (m)	None	None	None	None	Pom low	20m high
reduction	No spray buffer (m)	0 m	5 m	10 🚳	20 m	10 m	20 m
None	D1 Ditch	0.6771	0.5177	Q 5177	0.5077	0.5127	Ø.5177
50 %		0.5178	0.5177	△ 0.5177	\$177 ₆ °	0.5,177 (	, [®] 0.51©7
75 %		0.5177	0.5177	0.5177	y 0.51 fg	0.517X	0; <b>3</b> 177
90 %		0.5177	0.51%	<b>Q</b> 2.5177.	05477 ×	0.517	°>0.5177√
None	D1 Stream	0.4224	0.3247	© 0.3249	©.32470°	0.3247	0.3247
50 %		0.3247	\$\text{9.3247}	0.3247	0.3247	Ô.3247,	0.3247
75 %		0.3247	0.3247	\$3247\frac{1}{2}	09247 🗶	0.3247	© 0.32 <b>©</b>
90 %		0.3247	0,3247 %	0.3237	00.3242	3247	0.3247
None	D3 Ditch	0.4749	©0.1288	<b>6</b> 9683	0.0355	0.0683	° <b>9</b> .0355
50 %		0.\$374	0.0644	©0.0342	<b>20</b> 0177	0.0342	
75 %		Ø.118 <b>%</b>	© 322 L	0.94.71	√ 0.0 <b>089</b>	<b>3</b> 0.0171	0.0089
90 %	%	0.0475	©0.012 <b>9</b>	Ø.0068	0:0035	0.0068	0.0035
None	D4 Pond 🔬	Q. 0542 ©	0.0536	0.0529	%9.0519	₂ 0.9527	0.0519
50 %		0.0520	<b>@</b> .0520\$	0.0515	0.0 <i>5</i> Pi	0.0515	0.0511
75 %	ŢŶ,Ć	0.05/13	0.051	\$0509Q	0,9507	0.0509	0.0507
90 %		0.0507	Q. <b>Q</b> 506 ×	0.0505	\$0.0505 [©]	0.0505	0.0505
None	D4 Stream	<a>♥ 0.4089</a>	0.1508	0,9508 [©]	0.1508	0.1508	0.1508
50 %		0.2044	0.1508	0.150	~0,9508	0.1508	0.1508
75 %	·	£1508	QC\$308~	0.1508	0.1508	0.1508	0.1508
90 %		0.1508	>0.150 <b>%</b>	<b>6</b> 1508	0.1508	0.1508	0.1508
None	D5 Fond	0.0431	0.0428	0.0425	0.0419	0.0423	0.0419
50 %		0.0421	~0.0419°~	0.0417	0.0415	0.0417	0.0415
75 %	]	0.0015	\$0.04 <b>0</b> 5	Ø.0413	0.0412	0.0413	0.0412
90 %		Q0412	0,0 12	0.0411	0.0411	0.0411	0.0411
None&	D5 Stream	0.4140	Ø.1512	0.0801	0.0737	0.0801	0.0737
50 %	Ô	0,2070	0.07\$6	0.0737	0.0737	0.0737	0.0737
75 %		Ø.1035	0:0737	0.0737	0.0737	0.0737	0.0737
90 %		0.0737	<b>©</b> 0.0737	0.0737	0.0737	0.0737	0.0737
None	R4 Stream	03893	0.3893	0.3893	0.3893	0.1771	0.0928
50 %		<b>3</b> 0.3893	0.3893	0.3893	0.3893	0.1771	0.0928
75%		0.3893	0.3893	0.3893	0.3893	0.1771	0.0928
90%		0.3893	0.3893	0.3893	0.3893	0.1771	0.0928



### DT₅₀ system (354 days) assigned to sediment phase (PEC_{sed})

DT ₅₀ system (354 days) assigned to sediment phase (PEC _{sed} )								
<b>Table 9.2.5-29</b>	9∙ Siı	nole annlicati	ion FOCUS S	Sten 4 results	s for isoflucy	oram (winter	cereals carly	
PECsed	j. 511	пере пррисие		- Tesuits	- Tot Isoliucy _k		cereals garly	<b>)</b>
(μg/kg)	Scenario		STEP 4 isoflucypram					
Nozzle	Vegetated strip (m)	None	None	None	Non	10m low	20m high	
reduction	No spray buffer (m)	0 m	5 m	√10 m	₹0 m	Iw⊒m ≸	20 m	,W ,W
None	D1 Ditch	15.650	15.530	15.510	¥ 15.500	13.510 O	1 <b>\$</b> .500	•
50 %		15.570	15.5 🕪	\$5.500,\$\hat{\partial}	1,5.490	15.500	15.490	
75 %		15.530	15.500	¥ 15.4 <b>9</b> 0	Q95.4900°	15.490	15,300	° 1
90 %		15.500	45.490	15,490	, 15,490	Õ 15.490	13.490	
None	D1 Stream	8.7690	© 8.7 <b>68</b> 0	8.7670 ×	89670 ×	8.7670	§ 8.76 <b>7</b>	
50 %		8.7680°	8 <b>7</b> 670 %	8.7 <b>67</b> 0 ,	08.7670°	<b>3</b> 7670	8. <b>%</b> 670	
75 %		8.76 <b>%</b>	∂8.767 <b>%</b>	<b>%</b> 7670 \$	8.7670	8.7670	°≈8.7670	
90 %		<i>§</i> \$670 √	8.7670	8.7670 °	27670 C	8.0670		
None	D2 Ditch	¥1.95 <b>0</b>	D.850 \$	11840	√ 11.830°	, \$1.84Q	11.830	
50 %	` <u>`</u>	11.880	\$11.83 <b>0</b>	1.830	1 \$20 ~	11.890	11.820	
75 %	₩	15.850	11.830	711. <b>82</b> 9	\$\frac{1.820}{1.820}	.↓ <b>P</b> \$20	11.820	
90 %		11.830	<b>№</b> 1.820	145820	11.820	¶1.820	11.820	
None	D2 Stream	7.0280	√7.0 <b>26</b> 9	\$3.026Q	7,9250	7.0260	7.0250	
50 %		7.0260	7.0260	7.0250	\$7.0250	7.0250	7.0250	
75 %		√ 7.0260	7.0250	<b>7</b> 9250	7.0250	7.0250	7.0250	
90 %		7.0250	7.0250	7.0250	~ <b>1</b> 0250	7.0250	7.0250	
None None	D3 Ditch	3742	Q 3040 ×	0.0558	©0.0293	0.0558	0.0293	
50 %	\$	0.1895	~0.052 <b>6</b>	0282	0.0148	0.0282	0.0148	
75 %		<b>Q</b> \$960_@	0.0266	© 0.0145	0.0075	0.0143	0.0075	
90 % *		0.0390	~0,0108°~	0.0058	0.0030	0.0058	0.0030	
None 4	D4 Pond	0. <b>Z</b> Q55	0.703	<b>2 2 3</b> .6828	0.6649	0.6828	0.6649	
50 %		®6723	0,6665	¥ 0.6559	0.6469	0.6559	0.6469	
75 % <b>L</b>		\$\tag{506}	Ø.6477	0.6424	0.6379	0.6424	0.6379	
90 %		0,6376	0.6305	0.6343	0.6325	0.6343	0.6325	
None	D4 Stream	<b>20</b> .276 <b>4</b> \$	0:2759	0.2757	0.2756	0.2757	0.2756	
50 %	De Stream	0.2760	<b>©</b> 0.2757	0.2756	0.2756	0.2756	0.2756	
75 %		02758	0.2756	0.2756	0.2756	0.2756	0.2756	
90 %		<b>3</b> 0.2756	0.2756	0.2756	0.2755	0.2756	0.2755	
Noppe 6	D5 Pord	0.9352	0.9226	0.8996	0.8801	0.8996	0.8801	
50 %		0.8881	0.8818	0.8703	0.8605	0.8703	0.8605	
75 %		0.8645	0.8614	0.8556	0.8507	0.8556	0.8507	
90 %		0.8504	0.8491	0.8468	0.8448	0.8468	0.8448	



egetated rip (m) o spray ffer (m) Stream	None 0 m 0.2104 0.2101	None 5 m 0.2101 0.2100	None 10 m 0.2100	None 20 m 0.2099	10m low 70 m	20m high
ffer (m)	0.2104 0.2101	0.2101				
Stream	0.2101		0.2100	0.2099 🎤	0.2100	2000
		0.2100			» 0.2100 ₂	0.2099
		0.2100	0.200	0.209	0.2099	0.2099
	0.2100	0.2099	0.2099	0.2699	0.209	0.2099
	0.2099	0.2099	<b>2</b> 0.2099	<b>£</b> 2099 .	0.2099	0.209
Ditch	0.7159	0.7062	0.7045	0.7036	®70450°	03036
	0.7093	0.7044	Ø 7035 S	0,7031	© 0.70 <b>©5</b>	×0.703₩
	0.7059	0.7095	J0.7030	<b>1</b> 0.7028	0.20031	0.7028
	0.7039	207029°×	0.7928	0.7027	© .7028	<b>6</b> 7027
Pond	0.5471	© 0.5363	<b>1</b> 0.5166	03999	0.2430	<b>\$</b> 0.136
	0.5068	0.8014	© 0.4 <b>9</b> 13	©0.4832	<b>2</b> 215	0.1185
	0.4860	0.4839	9,4790	0.4748	©0.2082	· 0.1093
	0.4745	♥ 0.47 <b>%</b>	<b>3</b> 0.471 <b>5</b> 0	£698 ℃	0:2 <b>9</b> 02 ¢	0.1038
Stream	0.4309	0 <u>4</u> 275 _	0.4265	L 0.426	Ø.1120 [©]	0.0513
۰,	© 0.42®	6.4265 V	0.4260	0,4257 ~	70.1 <b>14</b> 5	0.0510
<i>J</i> ,	0. <del>4</del> 268	0.4260	©0.4250	&Q.4256	00 12	0.0509
	Ø.4260	@A257 \$	0.4256	0.4253	Q0.1110	0.0508
Stream 6	0.7189	Z0.6918	° 0.6848€	0.6809	0.1649	0.0727
	0.8973 📞	A #		0.6788	0.1607	0.0705
F	©0.6871	0.6805	0.6787 (	0.6707	0.1586	0.0693
Į.	0.6809	0.67 <b>©</b>	0.67740	006770	0.1573	0.0686
Stream	, <b>6</b> 540	0.6\$03.	0.6493	©0.6488	0.2432	0.1238
	\$\tilde{0.65}	. 9.649 <b>2</b>	Ø:6487 🗳	0.6484	0.2427	0.1235
	0.6496	^y 0,6¥87	0.648	0.6483	0.2423	0.1233
,ô¥	0.648Z	000484	0.6483	0.6482	0.2422	0.1232
	Pond Stream Stream Stream	0.7039  Pond 0.5471 0.5068 0.4860 0.4945 Stream 0.4309 0.4262 0.4268 0.4266 0.7189	0.7039 0.7029 0.536 0.5068 0.5068 0.4839 0.4839 0.4745 0.4734 0.4262 0.4265 0.4266 0.4260 0.4257 0.506918	O.7039 O.7029 O.7028 Pond O.5471 O.5363 O.5068 O.4839 O.4933 O.4866 O.4839 O.4734 O.4734 O.47130 O.4265 O.4265 O.4265 O.4265 O.4266 O.4260 O.6918 O.6848	0.7039 0.7029 0.7028 0.7027  Pond 0.5471 0.5369 0.5166 0.4999 0.4832 0.4860 0.4839 0.4790 0.4348 0.4745 0.4734 0.4717 6.4698  Stream 0.4309 0.4275 0.4265 0.4260 0.4260 0.4282 0.4260 0.4255 0.4256 0.4260 0.4257 0.4256 0.4256 0.4260 0.4257 0.4256 0.4260 0.4257 0.4256 0.4260 0.4257 0.4256 0.4260 0.6808 0.6788 0.6871 0.6805 0.6848 0.6808 0.6871 0.6805 0.67740 0.6770  Stream 0.6540 0.6503 0.6493 0.6488 0.6496 0.6484 0.6484	O.7039 O.7029 O.7028 O.7027 O.7028  Pond O.5471 O.5363 O.5166 O.4999 O.2480  O.5068 O.8014 O.4993 O.4832 C.215  O.4866 O.4839 O.4790 O.4448 O.2082  O.4745 O.4734 O.4712 O.4698 O.2082  O.4245 O.4734 O.4712 O.4266 O.1120  O.4282 O.4265 O.4266 O.4266 O.1120  O.4282 O.4265 O.4266 O.4256 O.1120  O.4268 O.4260 O.4256 O.4256 O.1110  O.4260 O.4257 O.4256 O.4256 O.1110  O.4260 O.4257 O.4256 O.4258 O.1110  O.4260 O.4257 O.4256 O.4258 O.1110



Table 9.2.5-30: Single application FOCUS Step 4 results for isoflucypram (winter cereals, late)

PECsed (μg/kg)	Scenario			STEP 4 iso	oflucypram		
Nozzle	Vegetated strip (m)	None	None	None	None	100 low	20m Brigh
reduction	No spray buffer (m)	0 m	5 m	10 m	20 m	10 m §	\$20 m
None	D1 Ditch	8.1880	7.8180	7.7540	7.718	7.7540	7.6990 7.6990 7.6900
50 %		7.9350	7.7490	7.7170	7.6990	7.717	₹.6990 7.6990
75 %		7.8080	7.7150	<u>4</u> .6990	£6900 °	7,6990	7.6900
90 %		7.7310	7.6940	7.6880 <i>4</i>	→ 7.6 <b>840</b>	%688Q ©	706840
None	D1 Stream	4.3170	4.3100	<b>\$</b> 3080	4 <b>39</b> 70 «	9 4.30 <b>8</b> 0	34.3076
50 %		4.3110	4.3080	4.3070	Ø.3060	4.9070	4.3000
75 %		4.3090	43070°×	4.3960 ~	4.3060	<b>4</b> .3060	43060 C
90 %		4.3070	<b>©</b> 4.30 <b>6</b> €		43060	4.3060	¥4.3060
None	D2 Ditch	8.4110	7.9880	7.9 <b>.13</b> 0	7.8740°	<b>3</b> 9140	7.8740
50 %		8.1240	7.9090	78720	7.8520	©7.87 <b>20</b>	×7.8520
75 %		7 <b>Ø</b> 760 🎝	Ÿ 7.87 <b>%</b>	\$7.852@	₹420 C	78920 8	7.8420
90 %		<₽.889Q	7. <b>§</b> 460 "	7.8390	L 7.8350	<i>₿</i> .8390	7.8350
None	D2 Stream 🛼	\$ 5.04P0	64.7840°	4.7150	4.6770 🚜	¥4.7¥ <b>5</b> 0	4.6770
50 %		4.8390 O	4.7600	4.675 <b>0</b>	£4.6570	.4 <b>6</b> 750	4.6570
75 %	a S	4.7386	<b>4</b> 6730 \$	4,6560	4.6460	A.6560	4.6460
90 %	, Š	4.6470	4.6510	. 9.6440¢	4.6400	4.6440	4.6400
None	D3 Ditch	0.3742 📞	0,1040	\$\int 0.0558	©0.0293	0.0558	0.0293
50 %		© 0.1895	0.0526	00282	0.01948	0.0282	0.0148
75 %	<b>*</b>	0,6960	0.0286	0.0143	0,0075	0.0143	0.0075
90 %		\$\infty\0390	,80fQ.Q	0.06€8	0.0030	0.0058	0.0030
None	D4 Pop	0.4052 0\$566	· 0.3921	Ø3684 ²²	0.3483	0.3684	0.3483
50 %		Q\$566	0.3500	0.338	0.3281	0.3382	0.3281
75 %		0.3323	0 ² 290 °	0.3231	0.3180	0.3231	0.3180
90 %	7	0.3077	Q0.316	Ø.3140	0.3120	0.3140	0.3120
None None	D4 Stream	£01511 €	0,1368	y 0.1456	0.1450	0.1456	0.1450
50 %		<u> 0.1478</u>	Ø.1455~	0.1449	0.1446	0.1449	0.1446
75 %		0.1460	^Q 0.14 <b>0</b>	0.1446	0.1444	0.1446	0.1444
90 %	L " 4 "	Ø.1450C	0.0445	0.1444	0.1443	0.1444	0.1443
None	P5 Poner	0.4941	<b>©</b> 0.4806	0.4560	0.4350	0.4560	0.4350
50 %		0.2437	0.4369	0.4245	0.4140	0.4245	0.4140
75 % 🔊	Ž A	<b>30.4183</b>	0.4149	0.4087	0.4035	0.4087	0.4035
75 % \$\frac{1}{5}\$		0.4031	0.4017	0.3992	0.3971	0.3992	0.3971



Vegetated strip (m)  No spray buffer (m)  5 Stream	None 0 m	None				
buffer (m)	0 m		None	None	10m low	20m high
5 Stream		5 m	10 m	20 m	€10 m	20 m
	0.1301	0.1014	0.1003	0.0997	» 0.1003	00.0993
	0.1022	0.1002	0.0997	0.099	0.0997	0.0994
	0.1007	0.0996	0.0994	0.0392	0.099	0.0992
	0.0997	0.0993	<b>4</b> 0.0992	£0991 .	0,0992	0.0991
6 Ditch	0.6639	0.2746	0.2683	0.2648	®2683 Õ	0\&648
	0.3778	0.26729	<b>2</b> 647	0.2629 🐇	J 0.26 T	×0.2629
	0.2736	0.2645	©0.26 <b>29</b>	<b>10</b> :2620	0.2629	0.2620
	0.2661	£624°	0.2618	0.2614	Ø.2618	<b>©</b> 2614
1 Pond	0.6307	\$\tilde{\pi}\)0.61\text{96}	<b>Ø</b> .5995	06824	0.2497	∜0.152 <b>9</b>
	0.5894	0.\$\$39 ू	© 0.5 <b>7\$</b> 8	₩0.5652 [©]	<b>2</b> 525 <b>2</b>	0.1341
	0.5683	0.5660	9,5609	0.5567	©0.2389	×0.1248
	0.5564	♥ 0.55 <b>9</b> 2	£0.55320	£5515 ©	02907 9	0.1191
1 Stream	©.921 <b>4</b>	J 88 R	0.9181	L 0.917	Ø.1978 [©]	0.0834
۰,	(2 0.91 <b>93</b> )	Ø.9180 [©]	0.9177	0,9\$75 ~	♥ 0.19 <b>7</b> #	0.0832
4,	Q2 <b>9</b> √183 ⊘	0.9676	©0.91 <b>75</b>	&0.9174 ^{**}	00 72	0.0831
Ş	<b>0</b> .91 <b>7</b>	<b>9</b> 9174	0.9073	© _{0.91}	LØ.1970	0.0830
3 Stram	V 0.2598	0.2474	\$\infty\0.2440\infty\0	0.2421	0.0956	0.0491
	0.2501 📞	0,2437	0.2420	©0.2411V	0.0936	0.0480
ř F	©0.2451	0.2419	0.2410 (	0.2,4005	0.0926	0.0474
. W	0.2421	0.2408	0.2404	002402	0.0920	0.0471
4 Stream	© 9191 ©	0,9109,0	0.9686	©0.9073	0.2754	0.1324
<b>29</b>	§ 0.9126	, 9.908 <b>5</b>	<b>∮</b> .9073 ≈	0.9067	0.2741	0.1317
	0.0094	0.9672	0.906	0.9063	0.2734	0.1313
	0.9073	_09065,_C	0.9062	0.9061	0.2730	0.1311
1	I Pond I Stream	0.0997 0.0997 0.06639 0.3778 0.2736 0.2661 1 Pond 0.6307 0.5884 0.5688 0.564 1 Stream 0.9214 0.9193 0.9183 0.9177	0.0997 0.0993 6 Ditch 0.6639 0.2746 0.3778 0.2679 0.2736 0.2645 0.2661 0.2624 0.5894 0.6196 0.5894 0.5660 0.5688 0.5660 0.5684 0.5552 1 Stream 0.9193 0.9186 0.9193 0.9186 0.9177 0.9174	0.0997 0.0993 0.0992  5 Ditch 0.6639 0.2746 0.2683 0.3778 0.2679 0.2647 0.2736 0.2645 0.2629 0.2661 0.2624 0.2618 0.5894 0.6136 0.5995 0.5894 0.58839 0.5738 0.5688 0.5660 0.5609 0.644 0.5532 0.5532 0.9132 0.9134 0.9181 0.9133 0.9476 0.9177 0.9183 0.9474 0.9173 0.9177 0.9184 0.9174	0.0997 0.0993 0.0992 60991 0 0.6639 0.2746 0.2683 0.2648 0.3778 0.2679 0.2647 0.2629 0.2629 0.2736 0.2645 0.2629 0.2629 0.2661 0.2624 0.2618 0.2614 0.5894 0.5894 0.5839 0.5738 0.5652 0.5688 0.5660 0.5609 0.5867 0.864 0.5532 0.5532 0.5532 0.515 0.2614 0.9193 0.9189 0.9177 0.9175 0.9183 0.9189 0.9177 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9174 0.9	0.0997 0.0993 0.0992 6 6991 0.0992 6 Ditch 0.6639 0.2746 0.2683 0.2648 0.2683 0.2648 0.2679 0.2647 0.2629 0.2647 0.2629 0.2620 0.2629 0.2629 0.2661 0.2624 0.2618 0.2618 0.2661 0.5894 0.5839 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0.5660 0



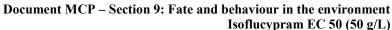
Table 9.2.5-31: Single application FOCUS Step 4 results for isoflucypram (spring cereals, early)

PECsed (μg/kg)	Scenario						
(M8/1-8/)							
	Vegetated					<b>%</b> .	
Nozzle	strip (m)	None	None	None	None	100 low	20m Bigh
reduction	No spray buffer (m)	0 m	5 m	10 m	20 m ∠	10 m	\$20 m
None	D1 Ditch	15.210	14.880	14,890	14.78	الالا20 م	14.780
50 %		14.980	14.810	14.780	14670	14.78	4.770
75 %		14.870	14.780	4.770 <u>4</u>	£\$4.760 _€ .	14.970	14.760
90 %		14.800	14.760	ື 14.760	y 14.7500°	14.76Q°	140,750
None	D1 Stream	8.4590	8.4520	<b>&amp;</b> 4500	8, <b>44</b> 90 «	8.4500	8.4496
50 %		8.4530	8.4500	8.4490	<b>8</b> .4480	8.4490	8.4480
75 %		8.4500	\$4490°×	8.4¥80 _~	8.4480	8.4480	<b>8</b> 4480
90 %		8.4490	© 8.4489	@.448Q\\	8@480 🔏	8.4480	×8.4486
None	D3 Ditch	0.3107 💍	0.8860	© 0.0461	00.0242	<b>6</b> 0461	0.0242
50 %		0.1570	0.0435	0.0233	0.0022	0.023	>0.0122
75 %		0 Ø 94 🎝	[©] 0.02 <b>%</b>	80.0117V	Ø0062 [©]	029P17 %	0.0062
90 %		×0.0322	Ø 9089 L	0.0048	L 0.0025	Ø9.0048	0.0025
None	D4 Pond	© 0.8793	60.8677	0.8467	0.8288 4	0.8467	0.8288
50 %		048362 O	0.8304	©0.8198	<b>%</b> 0.8108	000198	0.8108
75 %		©.8145	<b>Ø</b> 8116	0,8963	0.8008	₹0.8063	0.8018
90 %		0.8015	0.8004	. 9.7982 <i>Q</i>	0.7964	り 0.7982	0.7964
None	D4 Stream	0.3012 🖔	0,3000	0.2997	©0.2995	0.2997	0.2995
50 %	De Stream	© 0.3003	0.2997	0 <b>Q</b> 995 (	0.2994	0.2995	0.2994
75 %	2	0.2998	0.2993	0.2994	<b>0</b> 9994	0.2994	0.2994
90 %		, Ø)2995 [©]	0.2994.	0.2994	©0.2993	0.2994	0.2993
None	D5 Popa		. 9.873 <b>%</b>	8513	0.8321	0.8513	0.8321
50 %		√0.8863 08400 ©	0.8538	0.822	0.8129	0.8225	0.8129
75 %		©.8168,	0.8137°	0.8080	0.8032	0.8080	0.8032
90 %		0.8029	\$0.80 <b>%</b>	Ø.7994	0.7975	0.7994	0.7975
None None	D5 Stream	Ø1907	0,1902	y 0.1901	0.1900	0.1901	0.1900
50 %		△ 0.19 <b>03</b>	Ø.1901	0.1900	0.1900	0.1900	0.1900
75 %		0.1901	0.1900	0.1900	0.1899	0.1900	0.1899
90 %		<b>6</b> ).1900	0.0899	0.1899	0.1899	0.1899	0.1899
None	R4 Stream	0.9653	<b>2</b> 0.9571	0.9549	0.9536	0.2927	0.1412
50 %		0.9589	0.9547	0.9536	0.9529	0.2913	0.1404
75 % \$\frac{1}{2}  \text{90 \text{\gamma}}	ŽA	, 90.9556	0.9535	0.9529	0.9526	0.2907	0.1401
90 %		<b>♥</b> 0.9536	0.9527	0.9525	0.9524	0.2903	0.1399



Table 9.2.5-32: Single application FOCUS Step 4 results for isoflucypram (spring cereals, late)

PECsed (μg/kg)	Scenario	STEP 4 isoflucypram							
Nozzle	Vegetated strip (m)	None	None	None	None	100 low	20m Brigh		
reduction	No spray buffer (m)	0 m	5 m	10 m	20 m	10 m	² 20 m		
None	D1 Ditch	8.4800	8.1370	8.0.₩0	8.044	8.0770	8.0440		
50 %		8.2450	8.0730	8.0430	8.0270	8.043	3.0270		
75 %		8.1270	8.0410	∡ ^{©8} .0260	<b>&amp;</b> 0180 .	8,0260	8.0180		
90 %		8.0560	8.0220	8.0160	× 8.01300°	%016Q°	800130		
None	D1 Stream	4.5840	4.5760	<b>\$</b> 5740	4.3730	J 4.5740°	°~~4.5736		
50 %		4.5780	4.5740	4.57 <b>30</b>	<b>9</b> .5730	4.9730	/ 4.5 <b>73</b> 0		
75 %		4.5750	45730°×	4.5730	4.5730	<b>4.5730</b>	45730 ©		
90 %		4.5730	© 4.5739°	<b>Q</b> 4.573Q	4 <b>5</b> 720 <u>2</u>	4.5%0	4.57 <b>26</b>		
None	D3 Ditch	0.3372	0.6935	© 0.0 <b>5</b> 0.0	©0.0263	<b>£</b> 0501	0.0263		
50 %		0.1700	0.0473	00253	0.0033	0.025	<b>0.0133</b>		
75 %		0, 1863	♥ 0.02 <b>39</b>	© 0.01280	<b>€</b> 0067 ©	020128 %	0.0067		
90 %		×0.0350	<b>6</b> 097 _	0.0052	L 0.002 P	<b>3</b> 0052	0.0027		
None	D4 Pond 🗽	0.5248	60.5126	0.4906	0. <b>A</b> 719 ~	0.4906	0.4719		
50 %		Q. 4796 O	0.4535	©0.462©	&Q.4532	00,525	0.4532		
75 %		0.4570	<b>@</b> 4540\$	0.4485	0.4438	¶0.4485	0.4438		
90 %	J. Š. Ć	0.4434	0.4422	\$\int\tag{9.4400}	0.4381	0.4400	0.4381		
None	D4 Stream	0.1920 📞	0.3880	° 0.1870 €	<b>2</b> 0.1864♥	0.1870	0.1864		
50 %	O S	© 0.1889	0.1869	00863	0.1860	0.1863	0.1860		
75 %		0.1873	0.18	0.1860	QQ 858	0.1860	0.1858		
90 %	.,0	, Ø 1863	0,1859.	0.1898	0.1857	0.1858	0.1857		
None	D5 Possa	√0.5 <b>3</b> 30		<b>0</b> .4960 ~	0.4757	0.4960	0.4757		
50 %		03841	0.4.75	0.465	0.4554	0.4656	0.4554		
75 %		©0.4596	QQ563	0.4503	0.4452	0.4503	0.4452		
90 %	7	0.4448	\$0.44 <b>3</b> \$	Ø.4411	0.4390	0.4411	0.4390		
None	D5 Stream	£01054 €	0,1945	0.1043	0.1042	0.1043	0.1042		
50 %		△, 0.1047	Ø.1043	0.1042	0.1041	0.1042	0.1041		
75 %		0.1944	0.1002	0.1041	0.1041	0.1041	0.1041		
90 %		<b>6</b> .1042	0.0041	0.1041	0.1041	0.1041	0.1041		
None	R4 Stream	1.0020	<b>2</b> 0.9931	0.9908	0.9895	0.3034	0.1463		
50 %		0.9950	0.9907	0.9895	0.9888	0.3021	0.1456		
75 % 🔊	Š A	<b>9</b> 0.9916	0.9894	0.9888	0.9884	0.3014	0.1452		
90%		0.9895	0.9886	0.9884	0.9882	0.3009	0.1450		





### **CP 9.3** Fate and behaviour in air

For information on the fate and behaviour in air please refer to Document MCA, Section 7, Point 7.3_a

### Route and rate of degradation in air and transport a air **CP 9.3.1**

CP 9.4 Estimation of concentrations for other roptes of exposure.

There are no other routes of exposure if the profilet is used according to good agricultural practice. Therefore no further estimations are considered necessary. For information on route and rate of degradation in air and transport via air please refer to D MCA, Section 7, Point 7.3.1 and 7.3.2.