

Pinoxaden

**Pinoxaden – A Leaching Assessment for Parent and
Metabolites M2, M3, M11, M52, M54, M55 and M56
using the PEARL 5.5.5, PELMO 6.6.4 and MACRO 5.5.4
Groundwater Models Following Spray Application
to Winter and Spring Cereals**

Modelling Assessment

TEST GUIDELINE(S): (EC) No. 1107/2009

AUTHOR(S): Vincenzo Padricello, Benjamin Jones and Martin Hilton

COMPLETION DATE: 25th January 2023

PERFORMING FACILITY: Exponent International Ltd.
The Lenz, Hornbeam Business Park
Harrogate, HG2 8RE, UK

PROJECT ID: Report Number: 2101400.UK0 – 6516a
Project Number: PI0017197
Syngenta Task Number: TK0534959

SPONSOR(S): Syngenta Ltd
Jealott's Hill International Research Centre
Bracknell, Berkshire, RG42 6EY, United Kingdom

STATEMENT OF DATA CONFIDENTIALITY CLAIMS

In accordance with Article 63 'Confidentiality', of Commission Regulation (EC) No 1107/2009 of 21 October 2009, this document contains information confidential and trade secret to Syngenta. It should not be released in any form to an outside party, nor should information contained herein be used by registration authority to support registration of any other product without written permission of Syngenta.

GENERAL INFORMATION

Contributors

The following contributed to this report in the capacities indicated:

Name	Title
Vincenzo Padricello	Modeller - Modelling
Benjamin Jones	Modeller - Modelling
Martin Hilton	Technical Lead – Environmental Fate

TABLE OF CONTENTS

STATEMENT OF DATA CONFIDENTIALITY CLAIMS	2
GENERAL INFORMATION	3
TABLE OF CONTENTS	4
1.0 SUMMARY	7
2.0 GUIDELINES	8
3.0 MATERIALS AND METHODS	8
Table 1: Application patterns of Pinoxaden to Winter and Spring cereals used in modelling	9
Table 2: Application dates of Pinoxaden to Winter and Spring Cereals used in modelling	9
Figure 1: Schematic diagram of the modelled routes of degradation of Pinoxaden for Tier 1a and 1b.	10
Table 3: Simulation pathway used in MACRO 5.5.4 for Pinoxaden and its metabolites for Winter and Spring Cereals at BBCH11 and BBCH 21.	12
Figure 2 - PELMO degradation schemes for Tier 1a and Tier 1b.	13
Table 4: Summary of input parameters for Pinoxaden, M2, M3, M11, M52, M54, M55 and M56 for PEC _{gw} calculations	13
4.0 RESULTS	16
Table 5: Tier 1a – PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PELMO v6.6.4) on Winter Cereals at BBCH 11 with application every year.	16
Table 6: Tier 1a – PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PEARL v5.5.5) on Winter Cereals at BBCH 11 with application every year.	17
Table 7: Tier 1a - PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with MACRO v5.5.4) for Winter Cereals at BBCH 11 with application every year	17
Table 8: Tier 1a – PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PELMO v6.6.4) on Spring Cereals at BBCH 11 with application every year.	18
Table 9: Tier 1a – PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PEARL v5.5.5) on Spring Cereals at BBCH 11 with application every year.	18
Table 10: Tier 1a - PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with MACRO v5.5.4) for Spring Cereals at BBCH 11 with application every year	19
Table 11: Tier 1a – PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PELMO v6.6.4) on Winter Cereals at BBCH 21 with application every year.	19
Table 12: Tier 1a – PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PEARL v5.5.5) on Winter Cereals at BBCH 21 with application every year.	20
Table 13: Tier 1a - PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with MACRO v5.5.4) for Winter Cereals at BBCH 21 with application every year	20

Table 14:	Tier 1a – PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PELMO v6.6.4) on Spring Cereals at BBCH 21 with application every year.	21
Table 15:	Tier 1a - PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with PEARL v5.5.5) for Spring Cereals at BBCH 21 with application every year	21
Table 16:	Tier 1a - PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with MACRO v5.5.4) for Spring Cereals at BBCH 21 with application every year	22
Table 17:	Tier 1b – PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PELMO v6.6.4) on Winter Cereals at BBCH 11 with application every year.	22
Table 18:	Tier 1b – PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PEARL v5.5.5) on Winter Cereals at BBCH 11 with application every year.	23
Table 19:	Tier 1b - PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with MACRO v5.5.4) for Winter Cereals at BBCH 11 with application every year	23
Table 20:	Tier 1b – PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PELMO v6.6.4) on Spring Cereals at BBCH 11 with application every year.	24
Table 21:	Tier 1b – PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PEARL v5.5.5) on Spring Cereals at BBCH 11 with application every year.	25
Table 22:	Tier 1b - PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with MACRO v5.5.4) for Spring Cereals at BBCH 11 with application every year	25
Table 23:	Tier 1b – PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PELMO v6.6.4) on Winter Cereals at BBCH 21 with application every year.	26
Table 24:	Tier 1b – PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PEARL v5.5.5) on Winter Cereals at BBCH 21 with application every year.	26
Table 25:	Tier 1b - PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with MACRO v5.5.4) for Winter Cereals at BBCH 21 with application every year	27
Table 26:	Tier 1b – PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PELMO v6.6.4) on Spring Cereals at BBCH 21 with application every year.	27
Table 27:	Tier 1b - PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with PEARL v5.5.5) for Spring Cereals at BBCH 21 with application every year	28
Table 28:	Tier 1b - PEC _{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with MACRO v5.5.4) for Spring Cereals at BBCH 21 with application every year	28
Table 29:	Summary of maximum PEC _{GW} across all models for pinoxaden and its metabolites M2, M3, M11, M52, M55, M55 and M56	29
5.0	Further Details on Endpoint Selection.	30
6.0	DATA STORAGE	32
7.0	REFERENCES	33
8.0	APPENDIX 1	35

Listing 1:	Tier 1a – Representative *.prl input file for PEARL v5.5.5 – 60 g/ha to Winter Cereals at BBCH 11 for the Châteaudun scenario	35
Listing 2:	Tier 1a – Representative *.sum report file for PEARL v5.5.5 – 60 g/ha to Winter Cereals at BBCH 11 for the Châteaudun scenario	45
Listing 3:	Tier 1a – Representative *.psm file for PELMO 6.6.4 – 60 g/ha to Winter Cereals at BBCH 11 (Scheme 1)	82
Listing 4:	Tier 1a – Representative FOCUS Summary Output File for PELMO 6.6.4, 60 g/ha to Winter Cereals at BBCH 11 (Scheme 1)	93
Listing 5:	Tier 1b – Representative *.prl input file for PEARL v5.5.5 – 45 g/ha to Spring Cereals at BBCH 21 for the Châteaudun scenario	95
Listing 6:	Tier 1b – Representative *.sum report file for PEARL v5.5.5 – 45 g/ha to Spring Cereals at BBCH 21 for the Châteaudun scenario	105
Listing 7:	Tier 1b – Representative *.psm file for PELMO 6.6.4 – 45 g/ha to Spring Cereals at BBCH 21 (Scheme 2).	142
Listing 8:	Tier 1b – Representative FOCUS Summary Output File for PELMO 6.6.4, 45 g/ha to Spring Cereals at BBCH 21 (Scheme 2).	151
Listing 9:	Tier 1a – Representative *.par file for Pinoxaden to M2 for MACRO 5.5.4 – 60 g/ha to Winter Cereals at BBCH 11 for the Châteaudun scenario	153
Listing 10:	Tier 1a – Representative *.par file for M2 (metabolite) for MACRO 5.5.4 – 60 g/ha to Spring Cereals at BBCH 11 for Châteaudun scenario	164
Listing 11:	Tier 1b – Representative *.par file for M3 to M54 for MACRO 5.5.4 – 45 g/ha to Winter Cereals at BBCH 21 for the Châteaudun scenario	175
Listing 12:	Tier 1b – Representative *.par file for M3 (metabolite) for MACRO 5.5.4 – 60 g/ha to Spring Cereals at BBCH 21 for Châteaudun scenario	186

1.0 SUMMARY

This report summarises the groundwater modelling results for pinoxaden and its metabolites M2, M3, M11, M52, M54, M55 and M56 following application to winter or spring cereals at a rate of either 45 or 60 g/ha at either growth stage BBCH 11 or BBCH 21. Groundwater modelling was performed considering simulations in acidic soil condition (Tier 1a) and neutral/ alkaline soil conditions (Tier 1b). All parameters are presented in a format compatible for use in a draft registration report (dRR).

2.0 GUIDELINES

The modelling simulations were carried out in accordance with the FOCUS groundwater scenarios workgroup guidelines:

EFSA (2014). 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. EFSA Journal, 12(5): 3662.

EC (2014). Assessing potential for movement of active substances and their metabolites to groundwater in the EU. Report of the FOCUS Groundwater Work Group, EC Document Reference Sanco/13144/2010 version 3, 613 pp.

FOCUS (2000). FOCUS groundwater scenarios in the EU review of active substances. Report of the FOCUS groundwater scenarios workgroup, EC document reference Sanco/321/2000 rev. 2, 202 pp.

FOCUS (2014). Generic guidance for Tier 1 FOCUS groundwater assessments, version 2.2 FOCUS groundwater scenarios working group.

FOCUS (2021). Generic Guidance for Tier 1 FOCUS Ground Water Assessments, Version: 2.3 Date: June 2021

GLP: Not applicable

3.0 MATERIALS AND METHODS

This report describes a FOCUS groundwater modelling study that examined the potential for pinoxaden and its metabolites M2, M3, M11, M52, M54, M55 and M56 to reach groundwater following application to winter or spring cereals. The FOCUS simulation models FOCUS PEARL (v5.5.5), FOCUS PELMO (v6.6.4) and MACRO (v5.5.4) were used in the modelling study.

A single foliar application made at a rate of 60 or 45 g a.s./ha, from BBCH 11 or BBCH 21 was considered. The input parameters relating to application are shown in Table 1.

Applications of pinoxaden were considered for the FOCUS scenarios Châteaudun, Hamburg, Jokioinen, Kremsmünster, Okehampton, Piacenza, Porto, Sevilla and Thiva in FOCUS PEARL and FOCUS PELMO. For FOCUS MACRO, only the scenario Châteaudun is defined. Application dates are presented in Table 2. The dates were selected with the tool AppDate (v3.06). For winter cereals, absolute dates for Châteaudun, Hamburg, Jokioinen, Kremsmünster, Okehampton and Piacenza were selected based on the end of winter dormancy of winter cereals corresponding to a spring application. For Porto, Sevilla and Thiva, a winter dormancy period is not implemented in AppDate hence the 1st March was selected as a representative application date for early spring applications. This selected date is earlier than for any of the other scenarios modelled for which a winter dormancy period is implemented in AppDate. AppDate was used for selection of an absolute date for spring cereals.

Simulations were carried out using the FOCUS standard crops of winter or spring cereals in FOCUS PEARL, FOCUS PELMO and FOCUS MACRO. Simulations were carried out over 26 years, as proposed by FOCUS for pesticides that are applied annually. The first 6 years are intended to be a

‘warm up’ period, thus the following 20 years were taken into account for the assessment of the leaching behaviour.

Table 1: Application patterns of Pinoxaden to Winter and Spring cereals used in modelling

Use No.	1	2	3	4	5	6	7	8
Crop	Winter Cereals	Spring Cereals	Winter Cereals	Spring Cereals	Winter Cereals	Spring Cereals	Winter Cereals	Spring Cereals
Application rate (g as/ha)	60	60	45	45	60	60	45	45
Number of applications/ interval (d)	1/-	1/-	1/-	1/-	1/-	1/-	1/-	1/-
BBCH growth stage	11	11	11	11	21	21	21	21
Crop interception (%)	0	0	0	0	20	20	20	20
Frequency of application	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual
Models used for calculation	FOCUS PEARL v5.5.5, FOCUS PELMO v6.6.4, MACRO v5.5.4	FOCUS PEARL v5.5.5, FOCUS PELMO v6.6.4, MACRO v5.5.4	FOCUS PEARL v5.5.5, FOCUS PELMO v6.6.4, MACRO v5.5.4	FOCUS PEARL v5.5.5, FOCUS PELMO v6.6.4, MACRO v5.5.4	FOCUS PEARL v5.5.5, FOCUS PELMO v6.6.4, MACRO v5.5.4	FOCUS PEARL v5.5.5, FOCUS PELMO v6.6.4, MACRO v5.5.4	FOCUS PEARL v5.5.5, FOCUS PELMO v6.6.4, MACRO v5.5.4	FOCUS PEARL v5.5.5, FOCUS PELMO v6.6.4, MACRO v5.5.4

Table 2: Application dates of Pinoxaden to Winter and Spring Cereals used in modelling

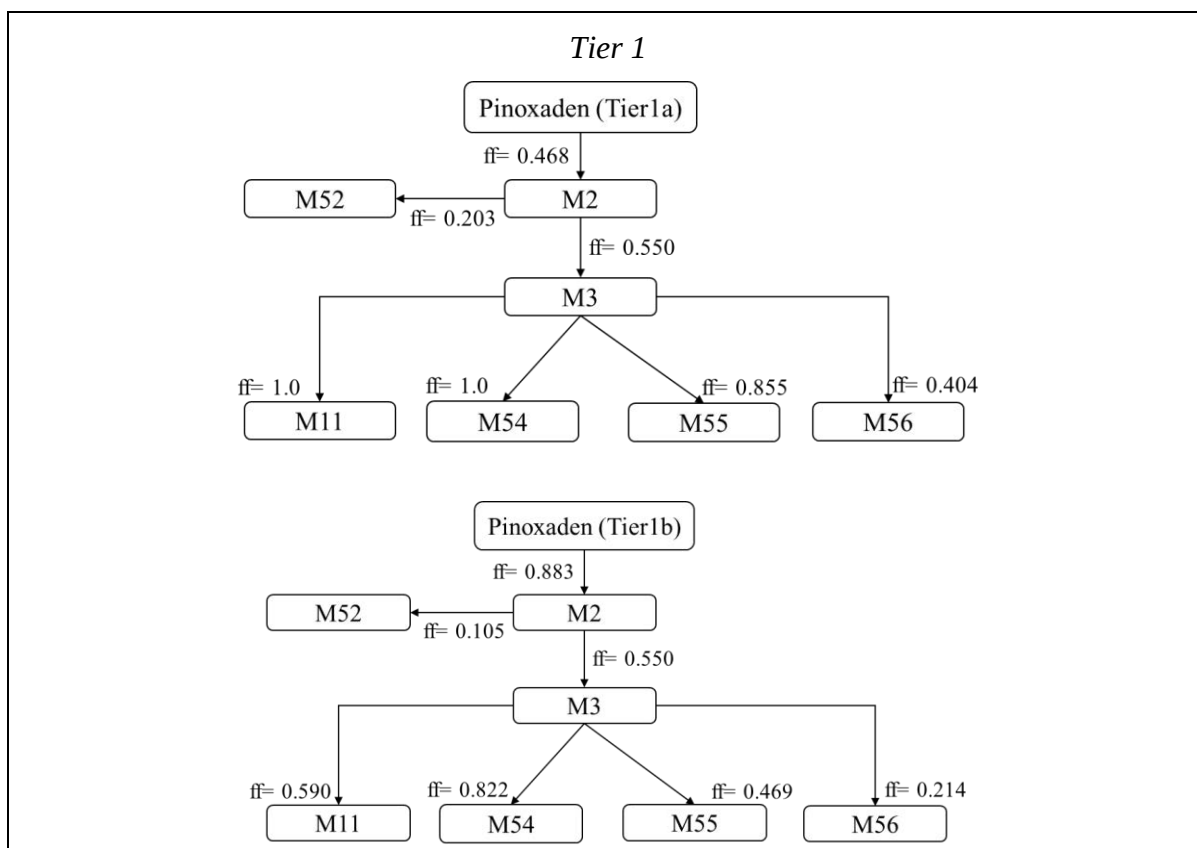
Crop	Scenario	Application dates (absolute)	
		BBCH 11	BBCH 21
Winter Cereals Use No.1, 3, 5, 7	Châteaudun	06 Apr (96)	06 Apr (96)
	Hamburg	25 Apr	25 Apr
	Jokioinen	05 May	05 May
	Kremsmünster	15 Apr	15 Apr
	Okehampton	12 Apr	12 Apr
	Piacenza	10 Mar	10 Mar
	Porto	01 Mar	01 Mar
	Sevilla	01 Mar	01 Mar
	Thiva	01 Mar	01 Mar

Crop	Scenario	Application dates (absolute)	
		BBCH 11	BBCH 21
Spring Cereals Use No.2, 4, 6, 8	Châteaudun	13 Mar (72)	31 Mar (90)
	Hamburg	03 Apr	16 Apr
	Jokioinen	20 May	28 May
	Kremsmünster	3 Apr	16 Apr
	Okehampton	3 Apr	13 Apr
	Porto	13 Mar	31 Mar

Note: Julian date in brackets

Groundwater modelling was performed considering simulations in acidic soil condition and neutral/alkaline soil conditions at Tier 1a and Tier 1b, respectively. Schematic diagrams of the modelled route of degradation of pinoxaden in soil for those different tiers are shown in Figure 1. Although the modelled routes of degradation are the same in acidic and neutral/basic soils the formation fractions differ for some metabolites.

Figure 1: Schematic diagram of the modelled routes of degradation of Pinoxaden for Tier 1a and 1b.



In FOCUS PELMO simulations, since at Tier 1a the metabolite M3 degrades to M55 and M56 with a worst-case molar formation fraction of 1 for each metabolite, Tier 1a has been divided in four different models to calculate PEC_{gw} of M11, M54, M55 and M56. Tier 1b was modelled in four different models as for Tier 1a. Figure 2 displays the four different degradation schemes implemented in modelling performed with FOCUS PELMO.

MACRO can only handle one parent compound and one metabolite in a single simulation, therefore, when the degradation pathway includes a chain of degradation where a metabolite is formed from another metabolite, the PEC_{gw} for the metabolite of concern is simulated by using its precursor metabolite as “parent” adjusting the applied dose by the ratio of molar masses and the molar formation fractions, see the equation 1 below:

$$(eq.1) \text{ Adjusted dose} = \text{Applied Dose} \times (1 - \%CI^1) \times ff_{met,A} \times ff_{met,B} \times (Mw_{met,B} \div Mw_{par})$$

The application rates and simulations pathway used MACRO are presented in Table 3.

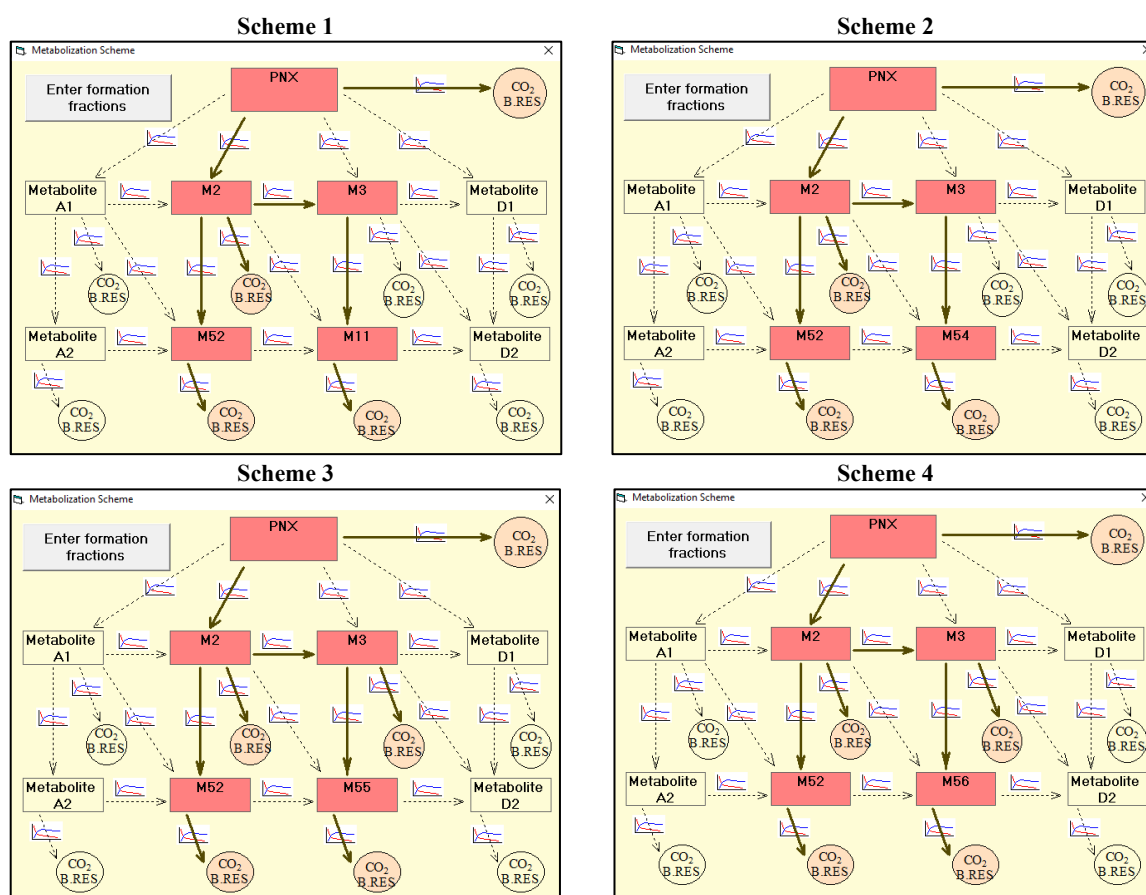
¹ CI = Crop Interception

Table 3: Simulation pathway used in MACRO 5.5.4 for Pinoxaden and its metabolites for Winter and Spring Cereals at BBCH11 and BBCH 21.

Tier(s)	Equivalent Application Rate, (g a.s. or precursor metabolite / ha)	Simulation Pathway	Conversion factor	Used result for the compound of concern
Tier 1a	Use No. 1, 2 = 60 Use No. 3, 4 = 45	PXD → M2	0.370	Pinoxaden, M2
Tier 1b	Use No. 5, 6 = 48 Use No. 7, 8 = 36	PXD → M2	0.698	Pinoxaden, M2
Tier 1a	Use No. 1, 2 = 22.18 Use No. 3, 4 = 16.64 Use No. 5, 6 = 17.75 Use No. 7, 8 = 13.31	M2 → M3	0.578	M3
		M2 → M52	0.231	M52
	Use No. 1, 2 = 12.82 Use No. 3, 4 = 9.61 Use No. 5, 6 = 10.25 Use No. 7, 8 = 7.69	M3 → M11	1.090	M11
		M3 → M54	1.090	M54
		M3 → M55	0.968	M55
		M3 → M56	0.438	M56
Tier 1b	Use No. 1, 2 = 41.85 Use No. 3, 4 = 31.39 Use No. 5, 6 = 33.48 Use No. 7, 8 = 25.11	M2 → M3	0.578	M3
		M2 → M52	0.120	M52
	Use No. 1, 2 = 24.18 Use No. 3, 4 = 18.14 Use No. 5, 6 = 19.35 Use No. 7, 8 = 14.51	M3 → M11	0.643	M11
		M3 → M54	0.896	M54
		M3 → M55	0.531	M55
		M3 → M56	0.232	M56

Note: the equivalent application rate represents the simulation of a metabolite applied as parent but correcting the application dose by the formation of the metabolite from the parent and the ratio of molar masses. See equation 1 above.

Figure 2 - PELMO degradation schemes for Tier 1a and Tier 1b.



Note: In figure 2 is displayed the Tier 1a scheme

The input parameters of pinoxaden and its metabolites M2, M3, M11, M52, M54, M55 and M56 used in modelling are shown in Table 4, below. All other input values were set at the default values unless otherwise stated.

Table 4: Summary of input parameters for Pinoxaden, M2, M3, M11, M52, M54, M55 and M56 for PEC_{gw} calculations

Compound	Pinoxaden	M2	M3	M11	M52	M54	M55	M56	Comment
Molar mass (g/mol)	400.5	316.4	332.4	362.4	360.3	362.4	376.4	360.4	
Water solubility (mg/L) (at 25°C)	200	380000	370	1000	1000	1000	1000	1000	PXD: Das (2002a); M2: Das (2002b); M3: Das (2001); M11, M52, M54, M55, M56: default
Water solubility at 20°C (mg/L)^(a)	166.1 ^(a)	n.a	n.a	n.a	n.a	n.a	n.a	n.a	^(a) PELMO input

Compound	Pinoxaden	M2	M3	M11	M52	M54	M55	M56	Comment
Water solubility at 30°C (mg/L)	332.2 (at 30°C)	n.a	n.a	n.a	n.a	n.a	n.a	n.a	PELMO input; 2 × water solubility at 20°C
Saturated vapour pressure at 20°C (Pa)	0	0	0	0	0	0	0	0	Worst case
Saturated vapour pressure at 30°C (Pa)	0	0	0	0	0	0	0	0	PELMO Input
DT ₅₀ in soil (d) lab/field	Tier 1a: pH ≤ 6.5: 1.15 d (geomean; lab; n = 4) Tier 1b: pH > 6.5: 0.216 d (geomean; lab; n = 14)	Tier 1a/1b: 3.39 days (geomean; field; n=6)	Tier 1a/1b: 39.6 days (geomean; field; n=9)	Tier 1a/1b: 11.7 days (geomean; lab; n = 3)	Tier 1a/1b: 8.43 days (geomean; lab; n = 3)	Tier 1a/1b: 7.52 days (geomean; lab; n = 3)	Tier 1a/1b: 16.4 days (geomean; lab; n = 3)	Tier 1a/1b: 72.1 days (geomean; lab; n = 3)	Pool et al. (2022)
Transformation rate	Tier 1a 0.282081 to M2 0.320656 to CO ₂ Tier 1b 2.83356 to M2 0.375455 to CO ₂	Tier 1a 0.041507 to M52 0.112458 to M3 0.050504 to CO ₂ Tier 1b 0.112458 to M3 0.021469 to M52 0.070542 to CO ₂	Tier 1a *0.017504 to M11 *0.017504 to M54 *[0.014966 to M55 0.002538 to CO ₂] * [0.007072 to M56 0.010432 to CO ₂] Tier 1b * [0.010327 to M11 0.007177 to CO ₂] * [0.014388 to M54 0.003116 to CO ₂] * [0.008209 to M55 0.009294 to CO ₂] * [0.003746 to M56 0.013758 to CO ₂]	Tier 1a/1b 0.059243 to CO ₂	Tier 1a/1b 0.082224 to CO ₂	Tier 1a/1b 0.092174 to CO ₂	Tier 1a/1b 0.042265 to CO ₂	Tier 1a/1b 0.009614 to CO ₂	PELMO input – derived from DT50 and formation fraction

Compound	Pinoxaden	M2	M3	M11	M52	M54	M55	M56	Comment
Formation fraction	n.a.	Tier 1a (pH ≤ 6.5): 0.468 (from parent) Tier 1b (pH > 6.5): 0.883 (from parent)	Tier 1a/1b: 0.550 (field; n=5; from M2)	Tier 1a: 1 Tier 1b: 0.590 (from M3)	Tier 1a: 0.203 Tier 1b: 0.105 (from M2)	Tier 1a: 1 Tier 1b: 0.822 (from M3)	Tier 1a: 0.855 Tier 1b: 0.469 (from M3)	Tier 1a: 0.404 Tier 1b: 0.214 (from M3)	
$K_{foc} / (^{c})K_{fom}$ (mL/g)	132 / 76.6 (geomean; lab; n=5)	1.54 / 0.893 (geomean; lab; n=4)	32.1 / 18.6 ^d (geomean; n=8)	5.71 / 3.31 (geomean; lab; n=3)	81.1 / 47.1 (geomean; lab; n=3)	7.96 / 4.62 (geomean; lab; n=3)	3.12 / 1.81 (geomean; lab; n=3)	13.5 / 7.83 (geomean; lab; n=3)	PXD: Button (2022); M2: Santos Kron (2022a); M3: Adam (2003), Spare (2003); M11: Santos Kron (2022b); M52: Kurlaviciene (2023); M54: Santos Kron (2022c); M55: Santos Kron (2022d); M56: Santos Kron (2022e)
1/n	1.06 (arithmetic mean; lab; n=4)	1.01 (arithmetic mean; lab; n=4)	0.96 (median, n=8)	0.96 (arithmetic mean; lab; n=3)	0.89 (arithmetic mean; lab; n=3)	0.92 (arithmetic mean; lab; n=3)	0.90 (arithmetic mean; lab; n=3)	0.92 (arithmetic mean; lab; n=3)	same as for K_{foc}
Plant uptake factor	0	0	0.784 ^b	0	0	0	0	0	Default
Washoff Factor (1/m) (PEARL)	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	Default
Foliar DT ₅₀ (d)	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	Default

^{a)} Refined from 25°C to 20 °C with EVA3 – Exposure Via Air (rev.2h of 20.09.2017)

^{b)} A reliable log Pow with a value of 1.8 can be derived for the metabolite M3 (Das, 2001; VV-381106). With this, the Briggs equation is applicable in line with FOCUS (2021). The TSCF calculates as: $TSCF = 0.784 \exp \{(-[\log(Pow) - 1.78]^2 / 2.44)\}$. Using the log Pow value of 1.8 in the Briggs equation gives a calculated TSCF value of 0.784. This is the maximum value possible and so strongly indicates that plant uptake of M3 occurs. FOCUS (2021) does not explicitly specify a maximum value of 0.5 for the PUF. Therefore, even the maximum value of 0.784 can be considered in groundwater modelling.

n.a. not applicable

^{c)} Calculated as $K_{foc} \div 1.724$

^{d)} Considering current guideline criteria for batch adsorption studies, the soils 'Plaza (ND loamy sand)' and 'Ephrata (WA sand)' from the study Spare (2003) are considered to have substantial deficiencies. Excluding these soils from the dataset would result in a geomean K_{foc} value of 33.4 mL/g. The geomean K_{foc} value of 32.1 mL/g used in this report is not expected to make a substantial difference to the modelling results.

^{*}) These metabolites were run separately in PELMO modelling (M11 – Scheme 1, M54 Scheme 2, M55 -Scheme 3 and M56 Scheme 4). NOTE = In the square brackets It is represented the transformation rate from parent to metabolite and transformation rate of metabolite to the sink.

4.0 RESULTS

Predicted environmental concentrations for pinoxaden and its metabolites M2, M3, M11, M52, M54, M55 and M56 in groundwater (PEC_{GW}) were calculated for the use pinoxaden on winter and spring cereals in Europe in accordance with FOCUS guidelines (FOCUS, 2000, 2014, 2021).

PEC_{GW} results for the 80th percentile (at 1 m soil depth) generated by the FOCUS PEARL, FOCUS PELMO and MACRO simulations at Tier 1a are given from Table 5 to Table 16, and simulations at Tier 1b are given from Table 17 to Table 28. Summary tables of maximum PEC_{GW} across all models are presented in Table 29.

Table 5: Tier 1a – PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PELMO v6.6.4) on Winter Cereals at BBCH 11 with application every year.

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 1 Winter Cereals (60 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.093	0.099	<0.001	0.037	0.165	0.485
	Hamburg	<0.001	<0.001	0.257	0.321	<0.001	0.125	0.496	0.703
	Jokioinen	<0.001	0.003	0.309	0.568	0.001	0.188	0.880	0.856
	Kremsmünster	<0.001	0.001	0.311	0.253	0.001	0.110	0.382	0.588
	Okehampton	<0.001	0.003	0.343	0.274	0.001	0.129	0.375	0.463
	Piacenza	<0.001	0.010	0.196	0.172	0.001	0.082	0.240	0.534
	Porto	<0.001	0.015	0.182	0.151	<0.001	0.068	0.212	0.386
	Sevilla	<0.001	<0.001	0.009	0.020	<0.001	0.006	0.032	0.151
	Thiva	<0.001	<0.001	0.035	0.044	<0.001	0.016	0.071	0.303
Use No. 3 Winter Cereals (45 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.069	0.073	<0.001	0.027	0.122	0.361
	Hamburg	<0.001	<0.001	0.191	0.240	<0.001	0.092	0.370	0.525
	Jokioinen	<0.001	0.003	0.228	0.423	<0.001	0.138	0.654	0.634
	Kremsmünster	<0.001	0.001	0.232	0.189	0.001	0.082	0.285	0.438
	Okehampton	<0.001	0.002	0.255	0.205	0.001	0.096	0.280	0.345
	Piacenza	<0.001	0.008	0.146	0.129	0.001	0.060	0.180	0.397
	Porto	<0.001	0.011	0.135	0.113	<0.001	0.050	0.157	0.287
	Sevilla	<0.001	<0.001	0.007	0.015	<0.001	0.004	0.024	0.112
	Thiva	<0.001	<0.001	0.026	0.033	<0.001	0.012	0.052	0.224

Table 6: Tier 1a – PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PEARL v5.5.5) on Winter Cereals at BBCH 11 with application every year.

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 1 Winter Cereals (60 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.122	0.135	<0.001	0.051	0.227	0.594
	Hamburg	<0.001	0.002	0.361	0.512	0.001	0.194	0.761	0.947
	Jokioinen	<0.001	0.002	0.332	0.613	<0.001	0.189	1.091	1.246
	Kremsmünster	<0.001	0.001	0.342	0.282	0.001	0.124	0.417	0.614
	Okehampton	<0.001	0.002	0.382	0.296	0.001	0.137	0.422	0.530
	Piacenza	<0.001	0.002	0.202	0.147	0.001	0.069	0.213	0.467
	Porto	<0.001	0.002	0.151	0.151	<0.001	0.062	0.250	0.426
	Sevilla	<0.001	<0.001	0.007	0.020	<0.001	0.005	0.033	0.132
	Thiva	<0.001	<0.001	0.035	0.050	<0.001	0.019	0.087	0.466
Use No. 3 Winter Cereals (45 g _{a.s.} /ha)	Châteaudun	<0.001	< 0.001	0.090	0.101	<0.001	0.038	0.168	0.439
	Hamburg	<0.001	0.001	0.268	0.382	0.001	0.143	0.568	0.702
	Jokioinen	<0.001	0.001	0.245	0.454	<0.001	0.139	0.806	0.917
	Kremsmünster	<0.001	0.001	0.254	0.210	0.001	0.092	0.311	0.458
	Okehampton	<0.001	0.002	0.284	0.222	0.001	0.102	0.315	0.396
	Piacenza	<0.001	0.001	0.150	0.110	0.001	0.051	0.159	0.347
	Porto	<0.001	0.002	0.111	0.112	<0.001	0.045	0.185	0.314
	Sevilla	<0.001	<0.001	0.005	0.015	<0.001	0.004	0.024	0.099
	Thiva	<0.001	<0.001	0.026	0.037	<0.001	0.014	0.064	0.344

Table 7: Tier 1a - PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with MACRO v5.5.4) for Winter Cereals at BBCH 11 with application every year

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 1 Winter Cereals (60 g _{a.s.} /ha)	Châteaudun	<0.001	< 0.001	0.084	0.069	0.017	0.024	0.123	0.419
Winter Cereals Use No. 3 (45 g _{a.s.} /ha)	Châteaudun	<0.001	< 0.001	0.062	0.051	0.013	0.018	0.091	0.310

Table 8: Tier 1a – PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PELMO v6.6.4) on Spring Cereals at BBCH 11 with application every year.

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 2 Spring Cereals (60 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.066	0.071	<0.001	0.028	0.120	0.364
	Hamburg	<0.001	<0.001	0.241	0.293	<0.001	0.112	0.455	0.680
	Jokioinen	<0.001	0.006	0.347	0.530	0.001	0.203	0.829	0.770
	Kremsmünster	<0.001	0.001	0.314	0.255	0.001	0.110	0.395	0.607
	Okehampton	<0.001	0.002	0.311	0.258	<0.001	0.121	0.355	0.424
	Piacenza	-	-	-	-	-	-	-	-
	Porto	<0.001	0.001	0.132	0.119	<0.001	0.061	0.161	0.271
	Sevilla	-	-	-	-	-	-	-	-
	Thiva	-	-	-	-	-	-	-	-
Use No. 4 Spring Cereals (45 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.049	0.052	<0.001	0.020	0.089	0.270
	Hamburg	<0.001	<0.001	0.179	0.220	<0.001	0.083	0.339	0.507
	Jokioinen	<0.001	0.004	0.257	0.395	0.001	0.149	0.614	0.564
	Kremsmünster	<0.001	0.001	0.234	0.190	0.001	0.082	0.295	0.452
	Okehampton	<0.001	0.002	0.232	0.193	<0.001	0.090	0.265	0.317
	Piacenza	-	-	-	-	-	-	-	-
	Porto	<0.001	0.001	0.099	0.090	<0.001	0.045	0.121	0.203
	Sevilla	-	-	-	-	-	-	-	-
	Thiva	-	-	-	-	-	-	-	-

“-“ scenario not relevant

Table 9: Tier 1a – PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PEARL v5.5.5) on Spring Cereals at BBCH 11 with application every year.

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 2 Spring Cereals (60 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.114	0.128	<0.001	0.049	0.210	0.487
	Hamburg	<0.001	0.001	0.359	0.551	0.001	0.210	0.885	1.122
	Jokioinen	<0.001	0.002	0.303	0.554	<0.001	0.184	0.942	0.973
	Kremsmünster	<0.001	0.001	0.311	0.269	<0.001	0.115	0.410	0.638
	Okehampton	<0.001	<0.001	0.290	0.269	<0.001	0.114	0.393	0.508
	Piacenza	-	-	-	-	-	-	-	-
	Porto	<0.001	0.001	0.098	0.095	<0.001	0.045	0.136	0.288
	Sevilla	-	-	-	-	-	-	-	-
	Thiva	-	-	-	-	-	-	-	-
Use No. 4 Spring Cereals (45 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.084	0.095	<0.001	0.036	0.156	0.361
	Hamburg	<0.001	0.001	0.266	0.412	<0.001	0.155	0.659	0.835
	Jokioinen	<0.001	0.002	0.223	0.412	<0.001	0.136	0.691	0.719
	Kremsmünster	<0.001	<0.001	0.231	0.201	<0.001	0.086	0.306	0.476
	Okehampton	<0.001	<0.001	0.216	0.201	<0.001	0.085	0.294	0.379
	Piacenza	-	-	-	-	-	-	-	-
	Porto	<0.001	0.001	0.074	0.071	<0.001	0.034	0.102	0.215
	Sevilla	-	-	-	-	-	-	-	-
	Thiva	-	-	-	-	-	-	-	-

Table 10: Tier 1a - PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with MACRO v5.5.4) for Spring Cereals at BBCH 11 with application every year

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 2 Spring Cereals (60 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.109	0.075	<0.001	0.027	0.128	0.348
Spring Cereals Use No. 4 (45 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.081	0.056	<0.001	0.020	0.094	0.257

Table 11: Tier 1a – PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PELMO v6.6.4) on Winter Cereals at BBCH 21 with application every year.

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 5 Winter Cereals (60 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.074	0.078	<0.001	0.029	0.131	0.386
	Hamburg	<0.001	<0.001	0.204	0.256	<0.001	0.099	0.395	0.561
	Jokioinen	<0.001	0.003	0.244	0.452	<0.001	0.148	0.699	0.679
	Kremsmünster	<0.001	0.001	0.247	0.202	0.001	0.087	0.304	0.468
	Okehampton	<0.001	0.002	0.273	0.219	0.001	0.102	0.299	0.369
	Piacenza	<0.001	0.008	0.156	0.138	0.001	0.065	0.192	0.424
	Porto	<0.001	0.012	0.145	0.120	<0.001	0.054	0.168	0.307
	Sevilla	<0.001	<0.001	0.007	0.016	<0.001	0.005	0.025	0.120
	Thiva	<0.001	<0.001	0.028	0.035	<0.001	0.013	0.056	0.240
	Thiva	<0.001	<0.001	0.028	0.035	<0.001	0.013	0.056	0.240
Use No. 7 Winter Cereals (45 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.054	0.058	<0.001	0.022	0.097	0.287
	Hamburg	<0.001	<0.001	0.151	0.192	<0.001	0.073	0.295	0.419
	Jokioinen	<0.001	0.002	0.181	0.337	<0.001	0.109	0.519	0.503
	Kremsmünster	<0.001	0.001	0.185	0.151	<0.001	0.065	0.227	0.349
	Okehampton	<0.001	0.002	0.203	0.164	<0.001	0.076	0.224	0.275
	Piacenza	<0.001	0.006	0.116	0.103	0.001	0.048	0.143	0.315
	Porto	<0.001	0.009	0.108	0.090	<0.001	0.040	0.124	0.228
	Sevilla	<0.001	<0.001	0.005	0.012	<0.001	0.003	0.019	0.089
	Thiva	<0.001	<0.001	0.021	0.026	<0.001	0.009	0.042	0.177

Table 12: Tier 1a – PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PEARL v5.5.5) on Winter Cereals at BBCH 21 with application every year.

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 5 Winter Cereals (60g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.096	0.108	<0.001	0.040	0.180	0.470
	Hamburg	<0.001	0.002	0.287	0.408	0.001	0.153	0.606	0.751
	Jokioinen	<0.001	0.001	0.262	0.486	<0.001	0.149	0.862	0.982
	Kremsmünster	<0.001	0.001	0.271	0.225	<0.001	0.098	0.332	0.489
	Okehampton	<0.001	0.002	0.304	0.236	0.001	0.109	0.336	0.423
	Piacenza	<0.001	0.002	0.161	0.117	0.001	0.055	0.170	0.371
	Porto	<0.001	0.002	0.119	0.120	< 0.001	0.049	0.198	0.336
	Sevilla	<0.001	<0.001	0.005	0.016	<0.001	0.004	0.026	0.105
	Thiva	<0.001	<0.001	0.028	0.040	<0.001	0.015	0.069	0.368
Use No. 7 Winter Cereals (45g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.071	0.080	<0.001	0.030	0.133	0.347
	Hamburg	<0.001	0.001	0.213	0.305	0.001	0.113	0.452	0.557
	Jokioinen	<0.001	0.001	0.193	0.359	<0.001	0.110	0.637	0.723
	Kremsmünster	<0.001	0.001	0.201	0.168	0.001	0.073	0.247	0.365
	Okehampton	<0.001	0.001	0.226	0.177	0.001	0.081	0.251	0.316
	Piacenza	<0.001	0.001	0.120	0.087	0.001	0.041	0.127	0.276
	Porto	<0.001	0.001	0.088	0.089	<0.001	0.036	0.146	0.248
	Sevilla	<0.001	<0.001	0.004	0.012	<0.001	0.003	0.019	0.079
	Thiva	<0.001	<0.001	0.021	0.030	<0.001	0.011	0.051	0.271

Table 13: Tier 1a - PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with MACRO v5.5.4) for Winter Cereals at BBCH 21 with application every year

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 5 Winter Cereals (60g _{a.s.} /ha)	Châteaudun	<0.001	< 0.001	0.066	0.055	0.014	0.019	0.097	0.331
Winter Cereals Use No. 7 (45 g _{a.s.} /ha)	Châteaudun	<0.001	< 0.001	0.049	0.041	0.010	0.014	0.072	0.245

Table 14: Tier 1a – PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PELMO v6.6.4) on Spring Cereals at BBCH 21 with application every year.

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 6 Spring Cereals (60 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.052	0.056	<0.001	0.022	0.095	0.288
	Hamburg	<0.001	<0.001	0.191	0.234	<0.001	0.088	0.363	0.542
	Jokioinen	<0.001	0.005	0.275	0.422	0.001	0.160	0.657	0.605
	Kremsmünster	<0.001	0.001	0.250	0.203	0.001	0.088	0.315	0.483
	Okehampton	<0.001	0.002	0.247	0.206	<0.001	0.096	0.283	0.339
	Piacenza	-	-	-	-	-	-	-	-
	Porto	<0.001	0.001	0.106	0.096	<0.001	0.048	0.129	0.217
	Sevilla	-	-	-	-	-	-	-	-
	Thiva	-	-	-	-	-	-	-	-
Use No. 8 Spring Cereals (45 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.038	0.042	<0.001	0.016	0.071	0.214
	Hamburg	<0.001	<0.001	0.142	0.175	<0.001	0.066	0.270	0.404
	Jokioinen	<0.001	0.004	0.204	0.314	0.001	0.118	0.487	0.443
	Kremsmünster	<0.001	0.001	0.186	0.152	<0.001	0.065	0.235	0.358
	Okehampton	<0.001	0.001	0.184	0.154	<0.001	0.072	0.212	0.254
	Piacenza	-	-	-	-	-	-	-	-
	Porto	<0.001	0.001	0.079	0.072	<0.001	0.036	0.097	0.162
	Sevilla	-	-	-	-	-	-	-	-
	Thiva	-	-	-	-	-	-	-	-

“-“ scenario not relevant

Table 15: Tier 1a - PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with PEARL v5.5.5) for Spring Cereals at BBCH 21 with application every year

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 6 Spring Cereals (60g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.083	0.097	<0.001	0.036	0.161	0.388
	Hamburg	<0.001	0.001	0.290	0.465	0.001	0.172	0.733	0.918
	Jokioinen	<0.001	0.003	0.276	0.468	0.001	0.157	0.771	0.788
	Kremsmünster	<0.001	0.001	0.265	0.231	0.001	0.097	0.343	0.520
	Okehampton	<0.001	<0.001	0.254	0.212	<0.001	0.094	0.315	0.410
	Piacenza	-	-	-	-	-	-	-	-
	Porto	<0.001	<0.001	0.079	0.086	<0.001	0.037	0.131	0.248
	Sevilla	-	-	-	-	-	-	-	-
	Thiva	-	-	-	-	-	-	-	-
Use No. 8 Spring Cereals (45g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.061	0.072	<0.001	0.026	0.120	0.287
	Hamburg	<0.001	0.001	0.215	0.348	0.001	0.127	0.542	0.682
	Jokioinen	<0.001	0.002	0.203	0.347	0.001	0.116	0.565	0.582
	Kremsmünster	<0.001	<0.001	0.197	0.173	0.001	0.072	0.256	0.388
	Okehampton	<0.001	<0.001	0.189	0.159	<0.001	0.070	0.235	0.306
	Piacenza	-	-	-	-	-	-	-	-
	Porto	<0.001	<0.001	0.059	0.065	<0.001	0.027	0.098	0.185
	Sevilla	-	-	-	-	-	-	-	-
	Thiva	-	-	-	-	-	-	-	-

Table 16: Tier 1a - PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with MACRO v5.5.4) for Spring Cereals at BBCH 21 with application every year

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 6 Spring Cereals (60 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.065	0.052	<0.001	0.018	0.091	0.270
Spring Cereals Use No. 8 (45 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.048	0.039	<0.001	0.014	0.068	0.200

Table 17: Tier 1b – PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PELMO v6.6.4) on Winter Cereals at BBCH 11 with application every year.

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 1 Winter Cereals (60 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.178	0.106	<0.001	0.057	0.167	0.475
	Hamburg	<0.001	<0.001	0.477	0.341	<0.001	0.186	0.491	0.682
	Jokioinen	<0.001	0.006	0.568	0.629	0.001	0.298	0.890	0.835
	Kremsmünster	<0.001	0.003	0.544	0.282	0.001	0.173	0.394	0.574
	Okehampton	<0.001	0.005	0.602	0.296	0.001	0.196	0.382	0.453
	Piacenza	<0.001	0.016	0.358	0.178	0.001	0.118	0.233	0.518
	Porto	<0.001	0.030	0.357	0.167	<0.001	0.103	0.216	0.376
	Sevilla	<0.001	<0.001	0.017	0.022	<0.001	0.009	0.033	0.148
	Thiva	<0.001	<0.001	0.071	0.050	<0.001	0.026	0.075	0.304
Use No. 3 Winter Cereals (45 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.132	0.079	<0.001	0.042	0.124	0.354
	Hamburg	<0.001	<0.001	0.353	0.255	<0.001	0.138	0.366	0.510
	Jokioinen	<0.001	0.004	0.420	0.468	<0.001	0.218	0.661	0.619
	Kremsmünster	<0.001	0.002	0.405	0.210	<0.001	0.128	0.294	0.428
	Okehampton	<0.001	0.004	0.448	0.222	<0.001	0.146	0.285	0.338
	Piacenza	<0.001	0.012	0.266	0.133	0.001	0.087	0.174	0.386
	Porto	<0.001	0.022	0.265	0.125	<0.001	0.076	0.161	0.279
	Sevilla	<0.001	<0.001	0.013	0.016	<0.001	0.007	0.024	0.109
	Thiva	<0.001	<0.001	0.052	0.037	<0.001	0.019	0.055	0.225

Table 18: Tier 1b – PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PEARL v5.5.5) on Winter Cereals at BBCH 11 with application every year.

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 1 Winter Cereals (60g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.236	0.153	<0.001	0.084	0.237	0.586
	Hamburg	<0.001	0.003	0.673	0.571	0.001	0.302	0.784	0.938
	Jokioinen	<0.001	0.003	0.631	0.670	<0.001	0.293	1.115	1.238
	Kremsmünster	<0.001	0.003	0.621	0.306	0.001	0.190	0.424	0.609
	Okehampton	<0.001	0.003	0.688	0.327	<0.001	0.212	0.433	0.523
	Piacenza	<0.001	0.003	0.397	0.162	0.001	0.109	0.222	0.462
	Porto	<0.001	0.003	0.276	0.167	<0.001	0.095	0.257	0.427
	Sevilla	<0.001	< 0.001	0.012	0.022	<0.001	0.008	0.032	0.128
	Thiva	<0.001	< 0.001	0.075	0.060	<0.001	0.033	0.094	0.463
Use No. 3 Winter Cereals (45g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.174	0.114	<0.001	0.062	0.176	0.433
	Hamburg	<0.001	0.002	0.500	0.426	0.001	0.223	0.585	0.696
	Jokioinen	<0.001	0.002	0.465	0.496	<0.001	0.216	0.824	0.911
	Kremsmünster	<0.001	0.002	0.461	0.228	0.001	0.141	0.316	0.454
	Okehampton	<0.001	0.003	0.511	0.245	0.001	0.158	0.324	0.391
	Piacenza	<0.001	0.003	0.295	0.121	0.001	0.081	0.166	0.343
	Porto	<0.001	0.002	0.204	0.125	<0.001	0.070	0.191	0.315
	Sevilla	<0.001	< 0.001	0.009	0.016	<0.001	0.006	0.024	0.095
	Thiva	<0.001	< 0.001	0.056	0.045	<0.001	0.024	0.070	0.342

Table 19: Tier 1b - PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with MACRO v5.5.4) for Winter Cereals at BBCH 11 with application every year

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 1 Winter Cereals (60g _{a.s.} /ha)	Châteaudun	<0.001	< 0.001	0.164	0.078	0.008	0.038	0.128	0.418
Winter Cereals Use No. 3 (45 g _{a.s.} /ha)	Châteaudun	<0.001	< 0.001	0.121	0.058	0.006	0.028	0.095	0.309

Table 20: Tier 1b – PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PELMO v6.6.4) on Spring Cereals at BBCH 11 with application every year.

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 2 Spring Cereals (60 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.176	0.096	<0.001	0.041	0.143	0.377
	Hamburg	<0.001	0.001	0.444	0.318	<0.001	0.185	0.452	0.624
	Jokioinen	<0.001	0.014	0.651	0.624	0.001	0.296	0.872	0.767
	Kremsmünster	<0.001	0.002	0.509	0.241	<0.001	0.167	0.353	0.562
	Okehampton	<0.001	0.004	0.573	0.269	<0.001	0.180	0.351	0.429
	Piacenza	-	-	-	-	-	-	-	-
	Porto	<0.001	0.013	0.283	0.138	<0.001	0.144	0.171	0.264
	Sevilla	-	-	-	-	-	-	-	-
	Thiva	-	-	-	-	-	-	-	-
Use No. 4 Spring Cereals (45 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.131	0.072	<0.001	0.030	0.107	0.281
	Hamburg	<0.001	<0.001	0.330	0.239	<0.001	0.137	0.338	0.466
	Jokioinen	<0.001	0.011	0.482	0.466	<0.001	0.217	0.647	0.567
	Kremsmünster	<0.001	0.002	0.379	0.181	<0.001	0.124	0.263	0.419
	Okehampton	<0.001	0.003	0.427	0.201	<0.001	0.134	0.263	0.320
	Piacenza	-	-	-	-	-	-	-	-
	Porto	<0.001	0.009	0.210	0.104	<0.001	0.107	0.128	0.199
	Sevilla	-	-	-	-	-	-	-	-
	Thiva	-	-	-	-	-	-	-	-

“-“ scenario not relevant

Table 21: Tier 1b – PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PEARL v5.5.5) on Spring Cereals at BBCH 11 with application every year.

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 2 Spring Cereals (60g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.225	0.146	<0.001	0.080	0.218	0.478
	Hamburg	<0.001	0.001	0.691	0.597	<0.001	0.322	0.892	1.100
	Jokioinen	<0.001	0.004	0.573	0.615	<0.001	0.289	0.960	0.962
	Kremsmünster	<0.001	0.001	0.599	0.292	<0.001	0.181	0.416	0.629
	Okehampton	<0.001	0.001	0.550	0.291	<0.001	0.184	0.395	0.504
	Piacenza	-	-	-	-	-	-	-	-
	Porto	<0.001	0.002	0.180	0.103	<0.001	0.069	0.134	0.281
	Sevilla	-	-	-	-	-	-	-	-
	Thiva	-	-	-	-	-	-	-	-
Use No. 4 Spring Cereals (45g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.166	0.109	<0.001	0.059	0.162	0.354
	Hamburg	<0.001	0.001	0.511	0.446	<0.001	0.238	0.665	0.818
	Jokioinen	<0.001	0.003	0.422	0.458	<0.001	0.213	0.704	0.712
	Kremsmünster	<0.001	0.001	0.446	0.218	<0.001	0.135	0.310	0.469
	Okehampton	<0.001	0.001	0.410	0.218	<0.001	0.137	0.295	0.376
	Piacenza	-	-	-	-	-	-	-	-
	Porto	<0.001	0.001	0.134	0.077	<0.001	0.051	0.100	0.211
	Sevilla	-	-	-	-	-	-	-	-
	Thiva	-	-	-	-	-	-	-	-

Table 22: Tier 1b - PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with MACRO v5.5.4) for Spring Cereals at BBCH 11 with application every year

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 2 Spring Cereals (60g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.213	0.085	<0.001	0.043	0.133	0.348
Spring Cereals Use No. 4 (45 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.158	0.063	<0.001	0.030	0.099	0.257

Table 23: Tier 1b – PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PELMO v6.6.4) on Winter Cereals at BBCH 21 with application every year.

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 5 Winter Cereals (60 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.141	0.085	<0.001	0.045	0.132	0.378
	Hamburg	<0.001	<0.001	0.378	0.272	<0.001	0.148	0.391	0.544
	Jokioinen	<0.001	0.005	0.449	0.500	<0.001	0.234	0.706	0.662
	Kremsmünster	<0.001	0.002	0.433	0.225	<0.001	0.137	0.314	0.457
	Okehampton	<0.001	0.004	0.479	0.237	<0.001	0.156	0.304	0.361
	Piacenza	<0.001	0.013	0.284	0.142	0.001	0.093	0.186	0.412
	Porto	<0.001	0.024	0.283	0.133	<0.001	0.082	0.172	0.299
	Sevilla	<0.001	<0.001	0.014	0.017	<0.001	0.007	0.026	0.117
	Thiva	<0.001	<0.001	0.056	0.040	<0.001	0.021	0.059	0.241
Use No. 7 Winter Cereals (45 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.104	0.063	<0.001	0.033	0.098	0.281
	Hamburg	<0.001	<0.001	0.280	0.204	<0.001	0.109	0.292	0.406
	Jokioinen	<0.001	0.003	0.332	0.373	<0.001	0.172	0.524	0.490
	Kremsmünster	<0.001	0.002	0.323	0.168	<0.001	0.102	0.235	0.341
	Okehampton	<0.001	0.003	0.356	0.177	<0.001	0.116	0.227	0.270
	Piacenza	<0.001	0.010	0.212	0.106	0.001	0.069	0.139	0.306
	Porto	<0.001	0.018	0.211	0.100	<0.001	0.060	0.128	0.222
	Sevilla	<0.001	<0.001	0.010	0.013	<0.001	0.005	0.019	0.086
	Thiva	<0.001	<0.001	0.041	0.030	<0.001	0.015	0.044	0.178

Table 24: Tier 1b – PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PEARL v5.5.5) on Winter Cereals at BBCH 21 with application every year.

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 5 Winter Cereals (60g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.186	0.122	<0.001	0.066	0.188	0.463
	Hamburg	<0.001	0.002	0.534	0.455	0.001	0.239	0.625	0.744
	Jokioinen	<0.001	0.002	0.498	0.530	<0.001	0.232	0.882	0.975
	Kremsmünster	<0.001	0.002	0.493	0.244	0.001	0.151	0.337	0.485
	Okehampton	<0.001	0.003	0.547	0.262	0.001	0.169	0.346	0.417
	Piacenza	<0.001	0.003	0.315	0.129	0.001	0.086	0.177	0.367
	Porto	<0.001	0.003	0.218	0.133	<0.001	0.075	0.204	0.337
	Sevilla	<0.001	<0.001	0.010	0.017	<0.001	0.006	0.026	0.102
	Thiva	<0.001	<0.001	0.059	0.048	<0.001	0.026	0.074	0.366
Use No. 7 Winter Cereals (45g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.137	0.091	<0.001	0.049	0.140	0.342
	Hamburg	<0.001	0.002	0.397	0.340	0.001	0.176	0.466	0.551
	Jokioinen	<0.001	0.002	0.368	0.392	<0.001	0.171	0.651	0.717
	Kremsmünster	<0.001	0.002	0.366	0.182	<0.001	0.112	0.251	0.362
	Okehampton	<0.001	0.002	0.407	0.196	<0.001	0.125	0.259	0.311
	Piacenza	<0.001	0.002	0.234	0.097	0.001	0.064	0.132	0.273
	Porto	<0.001	0.002	0.161	0.099	<0.001	0.055	0.151	0.248
	Sevilla	<0.001	<0.001	0.007	0.013	<0.001	0.005	0.019	0.076
	Thiva	<0.001	<0.001	0.044	0.036	<0.001	0.019	0.055	0.270

Table 25: Tier 1b - PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with MACRO v5.5.4) for Winter Cereals at BBCH 21 with application every year

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 5 Winter Cereals (60 g _{a.s.} /ha)	Châteaudun	<0.001	< 0.001	0.130	0.062	0.006	0.030	0.101	0.331
Winter Cereals Use No. 7 (45 g _{a.s.} /ha)	Châteaudun	<0.001	< 0.001	0.096	0.046	0.005	0.022	0.075	0.245

Table 26: Tier 1b – PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54 M55, M56 (with FOCUS PELMO v6.6.4) on Spring Cereals at BBCH 21 with application every year.

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 6 Spring Cereals (60 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.108	0.064	<0.001	0.034	0.100	0.287
	Hamburg	<0.001	<0.001	0.353	0.246	<0.001	0.133	0.357	0.526
	Jokioinen	<0.001	0.007	0.480	0.447	0.001	0.235	0.653	0.588
	Kremsmünster	<0.001	0.002	0.444	0.229	<0.001	0.133	0.322	0.471
	Okehampton	<0.001	0.003	0.440	0.222	<0.001	0.145	0.283	0.335
	Piacenza	-	-	-	-	-	-	-	-
	Porto	<0.001	0.002	0.214	0.104	<0.001	0.077	0.131	0.217
	Sevilla	-	-	-	-	-	-	-	-
	Thiva	-	-	-	-	-	-	-	-
Use No. 8 Spring Cereals (45 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.081	0.047	<0.001	0.025	0.075	0.212
	Hamburg	<0.001	<0.001	0.262	0.184	<0.001	0.098	0.267	0.392
	Jokioinen	<0.001	0.005	0.356	0.333	<0.001	0.173	0.483	0.430
	Kremsmünster	<0.001	0.002	0.331	0.171	<0.001	0.099	0.240	0.350
	Okehampton	<0.001	0.002	0.328	0.167	<0.001	0.108	0.212	0.250
	Piacenza	-	-	-	-	-	-	-	-
	Porto	<0.001	0.001	0.160	0.078	<0.001	0.058	0.098	0.162
	Sevilla	-	-	-	-	-	-	-	-
	Thiva	-	-	-	-	-	-	-	-

“-“ scenario not relevant

Table 27: Tier 1b - PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with PEARL v5.5.5) for Spring Cereals at BBCH 21 with application every year

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 6 Spring Cereals (60g _{a.s.} /ha)	Châteaudun	< 0.001	< 0.001	0.163	0.107	< 0.001	0.056	0.166	0.382
	Hamburg	< 0.001	0.002	0.563	0.511	0.001	0.269	0.740	0.906
	Jokioinen	< 0.001	0.004	0.498	0.504	0.001	0.239	0.781	0.777
	Kremsmünster	< 0.001	0.001	0.486	0.249	0.001	0.149	0.348	0.514
	Okehampton	< 0.001	0.001	0.464	0.234	< 0.001	0.142	0.321	0.404
	Piacenza	-	-	-	-	-	-	-	-
	Porto	< 0.001	< 0.001	0.152	0.094	< 0.001	0.057	0.131	0.243
	Sevilla	-	-	-	-	-	-	-	-
	Thiva	-	-	-	-	-	-	-	-
Use No. 8 Spring Cereals (45g _{a.s.} /ha)	Châteaudun	< 0.001	< 0.001	0.120	0.080	< 0.001	0.042	0.123	0.283
	Hamburg	< 0.001	0.001	0.416	0.382	0.001	0.199	0.548	0.674
	Jokioinen	< 0.001	0.003	0.367	0.374	< 0.001	0.178	0.573	0.574
	Kremsmünster	< 0.001	0.001	0.362	0.186	< 0.001	0.110	0.259	0.383
	Okehampton	< 0.001	0.001	0.346	0.175	< 0.001	0.105	0.240	0.301
	Piacenza	-	-	-	-	-	-	-	-
	Porto	< 0.001	< 0.001	0.113	0.070	< 0.001	0.042	0.098	0.181
	Sevilla	-	-	-	-	-	-	-	-
	Thiva	-	-	-	-	-	-	-	-

Table 28: Tier 1b - PEC_{GW} for Pinoxaden, M2, M3, M11, M52, M54, M55, M56 (with MACRO v5.5.4) for Spring Cereals at BBCH 21 with application every year

Crop	Scenario	80 th Percentile PEC _{GW} at 1 m Soil Depth (µg/L)							
		Pinoxaden	M2	M3	M11	M52	M54	M55	M56
Use No. 6 Spring Cereals (60g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.126	0.059	<0.001	0.032	0.095	0.269
Spring Cereals Use No. 8 (45 g _{a.s.} /ha)	Châteaudun	<0.001	<0.001	0.094	0.044	<0.001	0.022	0.071	0.199

Table 29: Summary of maximum PEC_{GW} across all models for pinoxaden and its metabolites M2, M3, M11, M52, M55, M55 and M56

Growth Stage	Compounds	PEC (µg/L)	Crop	Model	Scenario
Application rate 60 g/ha					
BBCH 11 Use 1,2 (Winter and Spring Cereals)	Pinoxaden	<0.001	all	all	all
	M2	0.030	Winter Cereals	PELMO	Porto
	M3	0.691	Spring Cereals	PEARL	Hamburg
	M11	0.670	Winter Cereals	PEARL	Jokioinen
	M52	0.008	Winter Cereals	MACRO	Châteaudun
	M54	0.322	Spring Cereals	PEARL	Hamburg
	M55	1.115	Winter Cereals	PEARL	Jokioinen
	M56	1.246	Winter Cereals	PEARL	Jokioinen
BBCH 21 Use 5,6 (Winter and Spring Cereals)	Pinoxaden	<0.001	all	all	all
	M2	0.024	Winter Cereals	PELMO	Porto
	M3	0.563	Spring Cereals	PEARL	Hamburg
	M11	0.511	Spring Cereals	PEARL	Hamburg
	M52	0.014	Winter Cereals	MACRO	Châteaudun
	M54	0.269	Spring Cereals	PEARL	Hamburg
	M55	0.862	Winter Cereals	PEARL	Jokioinen
	M56	0.982	Winter Cereals	PEARL	Jokioinen
Application rate 45 g/ha					
BBCH 11 Use 3,4 (Winter and Spring Cereals)	Pinoxaden	<0.001	all	all	all
	M2	0.022	Winter Cereals	PELMO	Porto
	M3	0.511	Winter Cereals	PEARL	Okehampton
	M11	0.496	Winter Cereals	PEARL	Jokioinen
	M52	0.013	Winter Cereals	MACRO	Châteaudun
	M54	0.238	Spring Cereals	PEARL	Hamburg
	M55	0.824	Winter Cereals	PEARL	Jokioinen
	M56	0.917	Winter Cereals	PEARL	Jokioinen
BBCH 21 Use 7,8 (Winter and Spring Cereals)	Pinoxaden	<0.001	all	all	all
	M2	0.018	Winter Cereals	PELMO	Porto
	M3	0.416	Spring Cereals	PEARL	Hamburg
	M11	0.382	Winter Cereals	PEARL	Hamburg
	M52	0.010	Winter Cereals	MACRO	Châteaudun
	M54	0.199	Spring Cereals	PEARL	Hamburg
	M55	0.637	Winter Cereals	PEARL	Jokioinen
	M56	0.723	Winter Cereals	PEARL	Thiva

5.0 FURTHER DETAILS ON ENDPOINT SELECTION.

The selection of degradation rates and formation fractions used in this report is presented in detail in the report Pool *et al.* (2022, VV-971745). Details of the soils data for parent and all metabolites from which the adsorption input parameters are derived are presented in Tables 30 to 37. Data from all soils presented in these tables are used to derive the geometric mean K_{FOC} and arithmetic mean $1/n$ values. For M3, the current guideline criteria for batch adsorption studies mean that the soils ‘Plaza (ND loamy sand)’ and ‘Ephrata (WA sand)’ from the study Spare (2003) are considered to have substantial deficiencies and that therefore in accordance with this guidance these two soils should be excluded from the calculation of the geometric mean K_{FOC} and arithmetic mean $1/n$ input values for M52. Excluding these soils from the dataset would result in a geometric mean K_{FOC} value of 33.4 mL/g for M52. The geometric mean K_{FOC} value of 32.1 mL/g used in this report (derived from all soils’ data) is not expected to make a substantial difference to the modelling results.

Table 30: Overview of available adsorption parameters for pinoxaden

Pinoxaden							
Reference	Soil name	Soil type	OC (%)	pH (CaCl ₂)	K_F (mL/g)	K_{FOC} (mL/g)	1/n (-)
Button (2022)	18 Acres	Sandy loam	2.3	5.6	4.49	195	1.075
	Borstel	Loamy sand	0.83	5.9	0.922	111	1.087
	Sarpy	Loam	2.1	6.2	6.31	301	1.037
	Gartenacker	Silt loam	2.3	7.1	0.546	23.7	1.020
	Marsillargues	Clay	1.0	7.8	2.56	256	1.084
Geometric mean (n=5)						132	
Arithmetic mean (n=5)							1.06
pH dependence, Yes or No						No	

Table 31: Overview of available adsorption parameters for M2

Metabolite A							
Reference	Soil name	Soil type	OC (%)	pH (CaCl ₂)	K_F (mL/g)	K_{FOC} (mL/g)	1/n (-)
Santos Kron (2022a)	RefeSol 01-A	Loamy sand	0.83	5.9	0.0342	4.1	1.104
	Vetroz	Loam	2	7.8	0.0114	0.6	0.948
	Gartenacker	Silt loam	2.3	7.1	0.0231	1.0	1.009
	Sarpy	Loam	2.1	6.2	0.0479	2.3	0.975
Geometric mean (n=4)						1.54	
Arithmetic mean (n=4)							1.01
pH dependence, Yes or No						No	

Table 32: Overview of available adsorption parameters for M3

M3							
Reference	Soil name	Soil type	OC (%)	pH (CaCl₂)	K_F (mL/g)	K_{FOC} (mL/g)	1/n (-)
Adam (2003a)	Borstel	loamy sand	1.0	5.3	0.38	37.8	1.046
	Marsillargues	silty clay loam	1.4	7.4	0.59	43.5	1.070
	Gartenacker	loam/silt loam	2.4	7.2	0.62	26.2	1.028
Spare (2003)	Plaza	loamy sand	1.2	7.2	0.28	23	0.904
	Northwood	loam	3.0	6.3	0.76	26	0.914
	Ephrata	sandy clay loam	0.3	6.5	0.12	35	0.916
	Minto	loam	3.2	7.3	0.86	26	0.900
	Larned	silty clay loam	1.0	5.9	0.50	48	0.915
Geometric mean (n=8)						32.1*	
Arithmetic mean (n=8)							0.961
pH dependence, Yes or No						No	

* Considering current guideline criteria for batch adsorption studies, the soils 'Plaza (ND loamy sand)' and 'Ephrata (WA sand)' from the study Spare (2003) are considered to have substantial deficiencies. Excluding these soils from the dataset would result in a geometric K_{FOC} value of 33.4 mL/g. The geometric K_{FOC} value of 32.1 mL/g used in this report is not expected to make a substantial difference to the modelling results.

Table 33: Overview of available adsorption parameters for M11

Metabolite A							
Reference	Soil name	Soil type	OC (%)	pH (CaCl₂)	K_F (mL/g)	K_{FOC} (mL/g)	1/n (-)
Santos Kron (2022b)	Hepler	Silt Loam	2.8	5.2	0.549	19.6	0.946
	Sarpy	Loam	1.8	6.4	0.069	3.8	0.912
	Vetroz	Loam	2.3	7.5	0.056	2.5	1.012
Geometric mean (n=3)						5.71	
Arithmetic mean (n=3)							0.96
pH dependence						No	

Table 34: Overview of available adsorption parameters for M52

Metabolite A							
Reference	Soil name	Soil type	OC (%)	pH (CaCl₂)	K_F (mL/g)	K_{FOC} (mL/g)	1/n (-)
Kurlaviciene (2023)	Hepler	Silt loam	2.9	5.6	10.1	349	0.855
	Sarpy	Silty clay loam	2.0	6.4	2.01	100	0.919
	Vetroz	Loam	2.3	7.7	0.352	15.3	0.904
Geometric mean (n=3)						81.1	
Arithmetic mean (n=3)							0.89
pH dependence, Yes or No						No	

Table 35: Overview of available adsorption parameters for M54

Metabolite A							
Reference	Soil name	Soil type	OC (%)	pH (CaCl ₂)	K _F (mL/g)	K _{FOC} (mL/g)	1/n (-)
Santos Kron (2022c)	Hepler	Silt Loam	2.8	5.2	0.683	24	0.925
	Sarpy	Loam	1.8	6.4	0.134	7.5	0.937
	Vetroz	Loam	2.3	7.5	0.064	2.8	0.902
Geometric mean (n=3)						7.96	
Arithmetic mean (n=3)							0.92
pH dependence, Yes or No						No	

Table 36: Overview of available adsorption parameters for M55

Metabolite A							
Reference	Soil name	Soil type	OC (%)	pH (CaCl ₂)	K _F (mL/g)	K _{FOC} (mL/g)	1/n (-)
Santos Kron (2022d)	Hepler	Silt Loam	2.8	5.2	0.323	11.5	0.921
	Sarpy	Loam	1.8	6.4	0.080	4.4	0.958
	Vetroz	Loam	2.3	7.5	0.013	0.6	0.831
Geometric mean (n=3)						3.12	
Arithmetic mean (n=3)							0.90
pH dependence, Yes or No						No	

Table 37: Overview of available adsorption parameters for M56

Metabolite A							
Reference	Soil name	Soil type	OC (%)	pH (CaCl ₂)	K _F (mL/g)	K _{FOC} (mL/g)	1/n (-)
Santos Kron (2022e)	Hepler	Silt Loam	2.8	5.2	0.432	15.4	0.922
	Sarpy	Loam	1.8	6.4	0.376	20.9	0.939
	Vetroz	Loam	2.3	7.5	0.176	7.6	0.897
Geometric mean (n=3)						13.5	
Arithmetic mean (n=3)							0.92
pH dependence, Yes or No						No	

6.0 DATA STORAGE

The full set of results, containing all data output by the models, is available on request.

7.0 REFERENCES

- Adam D. (2003). Adsorption/Desorption of [Pyrazole-7-14C]-NOA447204 in Various Soils. Study No: 02DA02. Syngenta Crop Protection AG, Basel, Switzerland. Syngenta File No: VV-330905.
- AppDate v3.06 Estimation of application dates based on crop development. Michael Klein, Fraunhofer-Institut für Molekularbiologie und Angewandte Ökologie, D-57392 Schmallenberg, Germany.
- Button S. (2022). NOA407855 – Adsorption of [14C]-NOA407855; Report No. 8455273. Labcorp Early Development Laboratories Limited, Cambridgeshire, UK. Syngenta File No.: VV-971034.
- Carnall J., Ford S. (2022a). Pinoxaden – Kinetic Modelling Evaluation of Data from Laboratory Soil Degradation Studies for Calculation of Modelling and Trigger Endpoints for Parent and Metabolites. Report No: NC/22/017A. Battelle UK Limited. Chelmsford, UK. Syngenta File No: VV-962641.
- Carnall J., Ford S. (2022b). Pinoxaden – Kinetic Modelling Evaluation of Data from Laboratory Soil Degradation Studies for Calculation of Modelling and Trigger Endpoints for Metabolite M3 (NOA447204). Report No: NC/22/017B. Battelle UK Limited. Chelmsford, UK. Syngenta File No: VV-962645.
- Das R. (2002a). Water solubility of NOA 407855. Study No: 107876. Syngenta Crop Protection Münchwilen AG, Switzerland. Syngenta File No: VV-295712.
- Das R. (2002b). Water solubility of NOA 407854. Study No: 108005. Syngenta Crop Protection Münchwilen AG, Switzerland. Syngenta File No: VV-381224.
- Das R. (2001). Water solubility of NOA 447204. Study No: 108009. Syngenta Crop Protection Münchwilen AG, Switzerland. Syngenta File No: VV-381008.
- EFSA (2014). 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. EFSA Journal, 12(5): 3662.
- EC (2014). Assessing potential for movement of active substances and their metabolites to groundwater in the EU. Report of the FOCUS Groundwater Work Group, EC Document Reference Sanco/13144/2010 version 3, 613 pp.
- FOCUS (2000). FOCUS groundwater scenarios in the EU plant protection product review process. – Report of the FOCUS Groundwater Scenarios Workgroup, EC Document Reference Sanco/321/2000 rev. 2, 202 pp.
- FOCUS (2014). Generic guidance for Tier 1 FOCUS groundwater assessments, version 2.2 FOCUS groundwater scenarios working group.
- FOCUS (2021). Generic Guidance for Tier 1 FOCUS Ground Water Assessments, Version: 2.3 Date: June 2021

Meteo data provided courtesy of the Joint Research Centre of the European Commission; ©European Communities, 2000

Ford S. (2022a). Pinoxaden – Kinetic Modelling Evaluation of Data from Laboratory Aerobic Soil Degradation Studies for Lysimeter Metabolites SYN546105, SYN546106, SYN546107, SYN546108 and SYN504574. Report No: NC/22/017D. Battelle UK Limited. Chelmsford, UK. Syngenta File No: VV-962653.

Ford S. (2022b). Pinoxaden – Kinetic Modelling Evaluation of Data from Field Soil Degradation Studies for Calculation of Modelling Endpoints for Metabolite M3 (NOA447204). Report No: NC/22/017E. Battelle UK Limited. Chelmsford, UK. Syngenta File No: VV-962656.

Ford S. (2022c). Pinoxaden – Kinetic Modelling Evaluation of Data from M2 (NOA407854) Applied Field Soil Degradation Studies for Calculation of Modelling Endpoints for Metabolites M2 and M3 (NOA447204). Report No: NC/22/017F. Battelle UK Limited. Chelmsford, UK. Syngenta File No: VV-962658.

Kurlaviciene, A. (2023). SYN546105 – Adsorption and Desorption of [¹⁴C]-SYN546105. Report No: 8484073. Labcorp Early Development Laboratories Limited, Cambridgeshire, United Kingdom. Syngenta File No: VV-974999.

Pool F., Strehmel A., Von Brasch M. (2022). Pinoxaden – Summary of Soil Degradation Input Parameters for Use in Regulatory Modelling of Predicted Environmental Concentrations - Position Statement. Report No: RAJ1490B. Syngenta Ltd, United Kingdom. Syngenta File No: VV-971745.

Santos Kron A. (2022a). NOA407854 – Adsorption and Desorption of ¹⁴C-NOA407854 in Five Soils. Report No: 20200412. IES Ltd, Switzerland. Syngenta File No: VV-959699.

Santos Kron A. (2022b). SYN504574 – Adsorption and Desorption of ¹⁴C-SYN504574 in Three Soils. Report No: 20210355. IES Ltd, Switzerland. Syngenta File No: VV-962226.

Santos Kron A. (2022c). SYN546106 – Adsorption and Desorption of ¹⁴C-SYN546106 in Three Soils. Report No: 20210356. IES Ltd, Switzerland. Syngenta File No: VV-959374.

Santos Kron A. (2022d). SYN546107 – Adsorption and Desorption of ¹⁴C-SYN546107 in Three Soils. Report No: 20210397. IES Ltd, Switzerland. Syngenta File No: VV-962659.

Santos Kron A. (2022e). SYN546108 – Adsorption and Desorption of ¹⁴C-SYN546108 in Three Soils. Report No: 20210398. IES Ltd, Switzerland. Syngenta File No: VV-959734.

Spare W. (2003). Adsorption and Desorption Study to Determine the Mobility and Distribution of ¹⁴C-NOA447204 in soil. Study No: 136-01. Exygen Research, PA, USA. Syngenta File No: VV-337971.

8.0 APPENDIX 1

Example Input and Output Files

Listing 1: Tier 1a – Representative *.prl input file for PEARL v5.5.5 – 60 g/ha to Winter Cereals at BBCH 11 for the Châteaudun scenario

```
* -----
* INPUT FILE for PEARL
* Generated by user interface version FOCUSPEARL 5.5.5 (build : 5.5.5) (October 2020) on
10/11/2022 16:59:53
* -----
* This file is intended to be used by expert users.
*
* Contact addresses:
* -----
* Aaldrik Tiktak                      Erik van den Berg
* Environmental Assessment Agency (PBL) Wageningen Environmental Research (WENR)
* PO BOX 30314                        PO BOX 47
* 2500 GH The Hague                  6700 AA Wageningen
* The Netherlands                    The Netherlands
* e-mail: aaldrik.tiktak@pbl.nl      erik.vandenberg@wur.nl
*
* (c) 2020 RIVM, PBL, WENR
* -----
* Section 1: Control section
* -----

FOCUSPEARL      CallingProgram
5.5.5            CallingProgramVersion
Groundwater     ExposureType
6               InitYears (y)
0               NumRep (-)
01-Jan-1901     TimStart
31-Dec-1926     TimEnd
0.001           ThetaTol (m3.m-3)
Month           OptDelTimPrn
30              DelTimPrn (d)
OnLine          OptHyd
1E-5            DelTimSwaMin (d)
0.2             DelTimSwaMax (d)
Yes             PrintCumulatives
1.0             GWLTol (m)
30              MaxItSwa
No              OptHysteresis
0.2             PreHeaWetDryMin (cm)
All             OptSys
Yes             OptScreen
No              OptPaddy
No              OptMacropore
None            OptAux

* -----
* Section 2: Soil section
* -----

CHAT-S_Soil SoilTypeID
CHATEAUDUN Location
table SoilProfile
ThiHor NumLay
(m)
0.01    5
0.24    24
0.05    5
0.2     16
0.1     4
```

```

0.4      16
0.2      4
0.3      6
0.4      4
2.6     26
end_table
table horizon SoilProperties
Nr      FraSand      FraSilt      FraClay      CntOm      pH
      (kg.kg-1)      (kg.kg-1)      (kg.kg-1)      (kg.kg-1)      (-)
1      0.03      0.67      0.3      0.024      8
2      0.03      0.67      0.3      0.024      8
3      0.02      0.67      0.31      0.016      8.1
4      0.02      0.67      0.31      0.016      8.1
5      0.08      0.67      0.25      0.012      8.2
6      0.3      0.44      0.26      0.005      8.5
7      0.3      0.44      0.26      0.005      8.5
8      0.38      0.38      0.24      0.0046      8.5
9      0.38      0.38      0.24      0.0046      8.5
10     0.08      0.61      0.31      0.0036      8.3
end_table
table horizon VanGenuchtenPar
Nr      ThetaSat      ThetaRes      AlphaDry      AlphaWet      n      KSat      l
      (m3.m-3)      (m3.m-3)      (cm-1)      (cm-1)      (-)      (m.d-1)      (-)
1      0.43      0      0.05      0.1      1.08      1.728      0.5
2      0.43      0      0.05      0.1      1.08      1.728      0.5
3      0.44      0      0.05      0.1      1.095      2.592      0.5
4      0.44      0      0.05      0.1      1.095      2.592      0.5
5      0.44      0      0.05      0.1      1.095      4.32      2.5
6      0.44      0      0.015      0.03      1.16      1.0368      -2
7      0.44      0      0.015      0.03      1.16      1.0368      -2
8      0.49      0      0.0107      0.0214      1.28      0.7828      -1.5
9      0.49      0      0.0107      0.0214      1.28      0.7828      -1.5
10     0.42      0      0.0191      0.0382      1.152      1.2796      -1.18
end_table
Input
table horizon      OptRho
      Rho      (kg.m-3)
1      1300.0
2      1300.0
3      1410.0
4      1410.0
5      1410.0
6      1370.0
7      1370.0
8      1410.0
9      1410.0
10     1490.0
end_table

0.002      ZPndMax      (m)

* Soil evaporation parameters
Boesten      OptSolEvp
1      FacEvpSol      (-)
0.79      CofRedEvp      (cm1/2)
0.01      PrcMinEvp      (m.d-1)

Table horizon LenDisLiq (m)
1 0.05
2 0.05
3 0.05
4 0.05
5 0.05
6 0.05
7 0.05
8 0.05
9 0.05
10 0.05
end_table
MillingtonQuirk      OptCofDifRel
2      ExpDifLiqMilNom      (-)
0.6667      ExpDifLiqMilDen      (-)

```

2 ExpDifGasMilNom (-)
0.6667 ExpDifGasMilDen (-)
Constant OptPnd

*-----
* Section 3: Weather and irrigation section
*-----

chat-m MeteoStation
Input OptEvp
2.35 TemLboSta (C)
No OptIrr
No IrrigationScheme
1.0 FacPrc (-)
1.0 FacEvp (-)
0.0 DifTem (C)
Laminar OptTraRes
Daily OptMetInp
No OptRainfallEvents
No OptSnow

*-----
* Section 4a: Lower boundary flux
*-----

-1200 ZGrwLevSta (cm)

FreeDrain OptLbo

*-----
* Section 4b: Drainage/infiltration section
*-----

No OptDra
No OptSurDra
0 NumDraLev

*-----
* Section 5: Compound section
*-----

PXDa3 SubstanceName
table compounds
PXDa3
M3a3
M4a3
M2a3
M5a3
M52a3
M1a3
M6a3
end_table
Eq1Dom_Input OptDT50_PXDa3
Eq1Dom_Input OptDT50_M3a3
Eq1Dom_Input OptDT50_M4a3
Eq1Dom_Input OptDT50_M2a3
Eq1Dom_Input OptDT50_M5a3
Eq1Dom_Input OptDT50_M52a3
Eq1Dom_Input OptDT50_M1a3
Eq1Dom_Input OptDT50_M6a3
400.5 MolMas_PXDa3 (g.mol-1)
332.4 MolMas_M3a3 (g.mol-1)
362.4 MolMas_M4a3 (g.mol-1)
316.4 MolMas_M2a3 (g.mol-1)
376.4 MolMas_M5a3 (g.mol-1)
360.3 MolMas_M52a3 (g.mol-1)
362.4 MolMas_M1a3 (g.mol-1)
360.4 MolMas_M6a3 (g.mol-1)
table FraPrtDau (mol.mol-1)
0.468 PXDa3 -> M2a3
1. M3a3 -> M4a3
0.855 M3a3 -> M5a3

```

1. M3a3 -> M1a3
0.404 M3a3 -> M6a3
0.55 M2a3 -> M3a3
0.203 M2a3 -> M52a3
end_table
OptimumConditions OptCntLiqTraRef_PXDa3
1.15 DT50Ref_PXDa3 (d)
20. TemRefTra_PXDa3 (C)
0.7 ExpliqTra_PXDa3 (-)
65.4 MolEntTra_PXDa3 (kJ.mol-1)
OptimumConditions OptCntLiqTraRef_M3a3
39.6 DT50Ref_M3a3 (d)
20. TemRefTra_M3a3 (C)
0.7 ExpliqTra_M3a3 (-)
65.4 MolEntTra_M3a3 (kJ.mol-1)
OptimumConditions OptCntLiqTraRef_M4a3
7.52 DT50Ref_M4a3 (d)
20. TemRefTra_M4a3 (C)
0.7 ExpliqTra_M4a3 (-)
65.4 MolEntTra_M4a3 (kJ.mol-1)
OptimumConditions OptCntLiqTraRef_M2a3
3.39 DT50Ref_M2a3 (d)
20. TemRefTra_M2a3 (C)
0.7 ExpliqTra_M2a3 (-)
65.4 MolEntTra_M2a3 (kJ.mol-1)
OptimumConditions OptCntLiqTraRef_M5a3
16.4 DT50Ref_M5a3 (d)
20. TemRefTra_M5a3 (C)
0.7 ExpliqTra_M5a3 (-)
65.4 MolEntTra_M5a3 (kJ.mol-1)
OptimumConditions OptCntLiqTraRef_M52a3
8.43 DT50Ref_M52a3 (d)
20. TemRefTra_M52a3 (C)
0.7 ExpliqTra_M52a3 (-)
65.4 MolEntTra_M52a3 (kJ.mol-1)
OptimumConditions OptCntLiqTraRef_M1a3
11.7 DT50Ref_M1a3 (d)
20. TemRefTra_M1a3 (C)
0.7 ExpliqTra_M1a3 (-)
65.4 MolEntTra_M1a3 (kJ.mol-1)
OptimumConditions OptCntLiqTraRef_M6a3
72.1 DT50Ref_M6a3 (d)
20. TemRefTra_M6a3 (C)
0.7 ExpliqTra_M6a3 (-)
65.4 MolEntTra_M6a3 (kJ.mol-1)
table horizon FacZTra (-)
hor PXDa3 M3a3 M4a3 M2a3 M5a3 M52a3 M1a3 M6a3
1 1 1 1 1 1 1 1
2 1 1 1 1 1 1 1
3 0.5 0.5 0.5 0.5 0.5 0.5 0.5
4 0.5 0.5 0.5 0.5 0.5 0.5 0.5
5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
6 0.3 0.3 0.3 0.3 0.3 0.3 0.3
7 0 0 0 0 0 0 0
8 0 0 0 0 0 0 0
9 0 0 0 0 0 0 0
10 0 0 0 0 0 0 0
end_table
table horizon FacZSor (-)
hor PXDa3 M3a3 M4a3 M2a3 M5a3 M52a3 M1a3 M6a3
1 -99 -99 -99 -99 -99 -99 -99
2 -99 -99 -99 -99 -99 -99 -99
3 -99 -99 -99 -99 -99 -99 -99
4 -99 -99 -99 -99 -99 -99 -99
5 -99 -99 -99 -99 -99 -99 -99
6 -99 -99 -99 -99 -99 -99 -99
7 -99 -99 -99 -99 -99 -99 -99
8 -99 -99 -99 -99 -99 -99 -99
9 -99 -99 -99 -99 -99 -99 -99
10 -99 -99 -99 -99 -99 -99 -99
end_table

```

0.	MolEntSor_PXDa3 (kJ.mol-1)
20.	TemRefSor_PXDa3 (C)
pH-independent	OptCofFre_PXDa3
76.6	KomEq1_PXDa3 (L.kg-1)
7660.	KomEq1Max_PXDa3 (L.kg-1)
1.	ConLiqRef_PXDa3 (mg.L-1)
1.06	ExpFre_PXDa3 (-)
0.	MolEntSor_M3a3 (kJ.mol-1)
20.	TemRefSor_M3a3 (C)
pH-independent	OptCofFre_M3a3
18.6	KomEq1_M3a3 (L.kg-1)
1860.	KomEq1Max_M3a3 (L.kg-1)
1.	ConLiqRef_M3a3 (mg.L-1)
0.96	ExpFre_M3a3 (-)
0.	MolEntSor_M4a3 (kJ.mol-1)
20.	TemRefSor_M4a3 (C)
pH-independent	OptCofFre_M4a3
4.62	KomEq1_M4a3 (L.kg-1)
462.	KomEq1Max_M4a3 (L.kg-1)
1.	ConLiqRef_M4a3 (mg.L-1)
0.92	ExpFre_M4a3 (-)
0.	MolEntSor_M2a3 (kJ.mol-1)
20.	TemRefSor_M2a3 (C)
pH-independent	OptCofFre_M2a3
0.893	KomEq1_M2a3 (L.kg-1)
89.3	KomEq1Max_M2a3 (L.kg-1)
1.	ConLiqRef_M2a3 (mg.L-1)
1.01	ExpFre_M2a3 (-)
0.	MolEntSor_M5a3 (kJ.mol-1)
20.	TemRefSor_M5a3 (C)
pH-independent	OptCofFre_M5a3
1.81	KomEq1_M5a3 (L.kg-1)
181.	KomEq1Max_M5a3 (L.kg-1)
1.	ConLiqRef_M5a3 (mg.L-1)
0.9	ExpFre_M5a3 (-)
0.	MolEntSor_M52a3 (kJ.mol-1)
20.	TemRefSor_M52a3 (C)
pH-independent	OptCofFre_M52a3
47.1	KomEq1_M52a3 (L.kg-1)
4710.	KomEq1Max_M52a3 (L.kg-1)
1.	ConLiqRef_M52a3 (mg.L-1)
0.89	ExpFre_M52a3 (-)
0.	MolEntSor_M1a3 (kJ.mol-1)
20.	TemRefSor_M1a3 (C)
pH-independent	OptCofFre_M1a3
3.31	KomEq1_M1a3 (L.kg-1)
331.	KomEq1Max_M1a3 (L.kg-1)
1.	ConLiqRef_M1a3 (mg.L-1)
0.96	ExpFre_M1a3 (-)
0.	MolEntSor_M6a3 (kJ.mol-1)
20.	TemRefSor_M6a3 (C)
pH-independent	OptCofFre_M6a3
7.83	KomEq1_M6a3 (L.kg-1)
783.	KomEq1Max_M6a3 (L.kg-1)
1.	ConLiqRef_M6a3 (mg.L-1)
0.92	ExpFre_M6a3 (-)
0.	PreVapRef_PXDa3 (Pa)
20.	TemRefVap_PXDa3 (C)
200.	SlbWatRef_PXDa3 (mg.L-1)
25.	TemRefSlb_PXDa3 (C)
27.	MolEntSlb_PXDa3 (kJ.mol-1)
95.	MolEntVap_PXDa3 (kJ.mol-1)
0.	PreVapRef_M3a3 (Pa)
20.	TemRefVap_M3a3 (C)
370.	SlbWatRef_M3a3 (mg.L-1)
25.	TemRefSlb_M3a3 (C)
27.	MolEntSlb_M3a3 (kJ.mol-1)
95.	MolEntVap_M3a3 (kJ.mol-1)
0.	PreVapRef_M4a3 (Pa)
20.	TemRefVap_M4a3 (C)
1000.	SlbWatRef_M4a3 (mg.L-1)

25.	TemRefSlb_M4a3 (C)
27.	MolEntSlb_M4a3 (kJ.mol-1)
95.	MolEntVap_M4a3 (kJ.mol-1)
0.	PreVapRef_M2a3 (Pa)
20.	TemRefVap_M2a3 (C)
380000.	SlbWatRef_M2a3 (mg.L-1)
25.	TemRefSlb_M2a3 (C)
27.	MolEntSlb_M2a3 (kJ.mol-1)
95.	MolEntVap_M2a3 (kJ.mol-1)
0.	PreVapRef_M5a3 (Pa)
20.	TemRefVap_M5a3 (C)
1000.	SlbWatRef_M5a3 (mg.L-1)
25.	TemRefSlb_M5a3 (C)
27.	MolEntSlb_M5a3 (kJ.mol-1)
95.	MolEntVap_M5a3 (kJ.mol-1)
0.	PreVapRef_M52a3 (Pa)
20.	TemRefVap_M52a3 (C)
1000.	SlbWatRef_M52a3 (mg.L-1)
25.	TemRefSlb_M52a3 (C)
27.	MolEntSlb_M52a3 (kJ.mol-1)
95.	MolEntVap_M52a3 (kJ.mol-1)
0.	PreVapRef_M1a3 (Pa)
20.	TemRefVap_M1a3 (C)
1000.	SlbWatRef_M1a3 (mg.L-1)
25.	TemRefSlb_M1a3 (C)
27.	MolEntSlb_M1a3 (kJ.mol-1)
95.	MolEntVap_M1a3 (kJ.mol-1)
0.	PreVapRef_M6a3 (Pa)
20.	TemRefVap_M6a3 (C)
1000.	SlbWatRef_M6a3 (mg.L-1)
25.	TemRefSlb_M6a3 (C)
27.	MolEntSlb_M6a3 (kJ.mol-1)
95.	MolEntVap_M6a3 (kJ.mol-1)
0.	CofDesRat_PXDa3 (d-1)
0.	FacSorNeqEq1_PXDa3 (-)
0.	CofDesRat_M3a3 (d-1)
0.	FacSorNeqEq1_M3a3 (-)
0.	CofDesRat_M4a3 (d-1)
0.	FacSorNeqEq1_M4a3 (-)
0.	CofDesRat_M2a3 (d-1)
0.	FacSorNeqEq1_M2a3 (-)
0.	CofDesRat_M5a3 (d-1)
0.	FacSorNeqEq1_M5a3 (-)
0.	CofDesRat_M52a3 (d-1)
0.	FacSorNeqEq1_M52a3 (-)
0.	CofDesRat_M1a3 (d-1)
0.	FacSorNeqEq1_M1a3 (-)
0.	CofDesRat_M6a3 (d-1)
0.	FacSorNeqEq1_M6a3 (-)
0.	FacUpt_PXDa3 (-)
0.784	FacUpt_M3a3 (-)
0.	FacUpt_M4a3 (-)
0.	FacUpt_M2a3 (-)
0.	FacUpt_M5a3 (-)
0.	FacUpt_M52a3 (-)
0.	FacUpt_M1a3 (-)
0.	FacUpt_M6a3 (-)
0.01	ThiAirBouLay (m)
Lumped	OptDspCrp_PXDa3
1000000.	DT50DspCrp_PXDa3 (d)
0.0001	FacWasCrp_PXDa3 (m-1)
Lumped	OptDspCrp_M3a3
1000000.	DT50DspCrp_M3a3 (d)
0.0001	FacWasCrp_M3a3 (m-1)
Lumped	OptDspCrp_M4a3
1000000.	DT50DspCrp_M4a3 (d)
0.0001	FacWasCrp_M4a3 (m-1)
Lumped	OptDspCrp_M2a3
1000000.	DT50DspCrp_M2a3 (d)
0.0001	FacWasCrp_M2a3 (m-1)
Lumped	OptDspCrp_M5a3

```

1000000.      DT50DspCrp_M5a3 (d)
0.0001        FacWasCrp_M5a3 (m-1)
Lumped        OptDspCrp_M52a3
1000000.      DT50DspCrp_M52a3 (d)
0.0001        FacWasCrp_M52a3 (m-1)
Lumped        OptDspCrp_M1a3
1000000.      DT50DspCrp_M1a3 (d)
0.0001        FacWasCrp_M1a3 (m-1)
Lumped        OptDspCrp_M6a3
1000000.      DT50DspCrp_M6a3 (d)
0.0001        FacWasCrp_M6a3 (m-1)
20.           TemRefDif_PXDa3 (C)
4.3E-5        CofDifWatRef_PXDa3 (m2.d-1)
0.43          CofDifAirRef_PXDa3 (m2.d-1)
20.           TemRefDif_M3a3 (C)
4.3E-5        CofDifWatRef_M3a3 (m2.d-1)
0.43          CofDifAirRef_M3a3 (m2.d-1)
20.           TemRefDif_M4a3 (C)
4.3E-5        CofDifWatRef_M4a3 (m2.d-1)
0.43          CofDifAirRef_M4a3 (m2.d-1)
20.           TemRefDif_M2a3 (C)
4.3E-5        CofDifWatRef_M2a3 (m2.d-1)
0.43          CofDifAirRef_M2a3 (m2.d-1)
20.           TemRefDif_M5a3 (C)
4.3E-5        CofDifWatRef_M5a3 (m2.d-1)
0.43          CofDifAirRef_M5a3 (m2.d-1)
20.           TemRefDif_M52a3 (C)
4.3E-5        CofDifWatRef_M52a3 (m2.d-1)
0.43          CofDifAirRef_M52a3 (m2.d-1)
20.           TemRefDif_M1a3 (C)
4.3E-5        CofDifWatRef_M1a3 (m2.d-1)
0.43          CofDifAirRef_M1a3 (m2.d-1)
20.           TemRefDif_M6a3 (C)
4.3E-5        CofDifWatRef_M6a3 (m2.d-1)
0.43          CofDifAirRef_M6a3 (m2.d-1)

```

```

* -----
* Section 6: Management section
* -----

```

```

PXD-WCereals-BBCH11-60app-CHAT ApplicationScheme

```

```

1.0           ZTgt (m)
0.0           ZEADTop (m)
0.2           ZEADBot (m)
1             DelTimEvt (a)
table Applications
06-Apr-1901 AppSolSur 0.06
end_table
table TillageDates
end_table
table interpolate CntSysEq1 (mg.kg-1)
0.0           0.0
50.0          0.0
end_table
table interpolate CntSysNeq (mg.kg-1)
0.0           0.0
50.0          0.0
end_table
No DepositionScheme
table FlmDep (kg.ha-1.d-1)
end_table

```

```

* -----
* Section 7: Crop section
* -----

```

```

CHAT-WCEREALS CropCalendar
Yes           RepeatCrops
Fixed         OptLenCrp
LAI          OptCov

```

```

table Crops
26-Oct       15-Jul       wcereals1

```

```

end_table
table CrpPar_wcereals1
0.0 0.0 1.05 0.0 0.0
0.65 0.1 1.05 0.2 0.0
0.828 7.5 1.05 0.8 0.0
0.831 7.5 1.1 0.8 0.0
0.904 7.5 1.1 0.8 0.0
0.908 7.5 0.7 0.8 0.0
1.0 7.5 0.7 0.8 0.0
end_table
table RootDensity_wcereals1
0.0 1.0
1.0 1.0
end_table
0.0 HLim1_wcereals1 (cm)
-1.0 HLim2_wcereals1 (cm)
-500.0 HLim3U_wcereals1 (cm)
-900.0 HLim3L_wcereals1 (cm)
-16000.0 HLim4_wcereals1 (cm)
70.0 RstEvpCrp_wcereals1 (s.m-1)
0.39 CofExtDif_wcereals1 (-)
1.0 CofExtDir_wcereals1 (-)
0.0001 CofIntCrp_wcereals1 (cm)
0.0 TemSumSta_wcereals1 (C)
0.0 TemSumEmgAnt_wcereals1 (C)
0.0 TemSumAntMat_wcereals1 (C)
0.2 ZTensiometer_wcereals1 (m)
0.0 FraCovStm_wcereals1 (-)
-100.0 PreHeaIrrSta_wcereals1 (cm)
15.0 IrgThreshold_wcereals1 (mm)
*-----
* Section 8: Output control
*-----

DaysFromSta DateFormat
No OptDelOutFiles
Yes PrintCumulatives
Yes LeachingReport
80.0 TargetPercentile (%)
No DrainageReport
No AirReport
No SoilReport
0.2 ThiLayPer (m)
table VerticalProfiles
end_table
G12.4 RealFormat
table OutputDepths (m)
0.05
0.1
0.2
0.3
0.4
0.5
0.75
1.0
2.0
end_table
Yes print_AmaAppCrp
Yes print_AmaAppSol
Yes print_AmaCrp
Yes print_AmaDra_1
Yes print_AmaDra_2
Yes print_AmaDra_3
Yes print_AmaDra_4
Yes print_AmaDra_5
Yes print_AmaEq1Tgt
Yes print_AmaEq1Pro
Yes print_AmaEq1Til
Yes print_AmaErrMic
Yes print_AmaForPro
Yes print_AmaHarCrp

```

Yes	print_AmaNeqTgt
Yes	print_AmaNeqPro
Yes	print_AmaNeqTil
Yes	print_AmaSysTgt
Yes	print_AmaSysPro
Yes	print_AmaSysTil
Yes	print_AmaTraPro
Yes	print_AmaUptPro
Yes	print_AmaDspCrp
Yes	print_AmaWasCrp
Yes	print_ConGas
Yes	print_ConLiq
Yes	print_ConLiqLbo
Yes	print_ConLiqSatAvg
Yes	print_ConSys
Yes	print_ConSysEq1
Yes	print_ConSysNeq
Yes	print_DelTimPrl
Yes	print_Eps
Yes	print_FacCrpEvp
Yes	print_FlmDepCrp
Yes	print_FlmGas
Yes	print_FlmGasVol
Yes	print_FlmLiq
Yes	print_FlmLiqInfSys
Yes	print_FlmLiqLbo
Yes	print_FlmSys
Yes	print_FlvLiq
Yes	print_FlvLiqDra_3
Yes	print_FlvLiqDra_4
Yes	print_FlvLiqDra_5
Yes	print_FlvLiqEvpIntIrr
Yes	print_FlvLiqEvpIntPrc
Yes	print_FlvLiqEvpSol
Yes	print_FlvLiqEvpSolPot
Yes	print_FlvLiqIrr
Yes	print_FlvLiqLbo
Yes	print_FlvLiqGrw
Yes	print_FlvLiqTrp
Yes	print_FlvLiqTrpPot
Yes	print_FraCovCrp
Yes	print_GrwLev
Yes	print_LAI
Yes	print_PreHea
Yes	print_Theta
Yes	print_StoCap
Yes	print_FlvLiqGrwSur
Yes	print_VvrLiqDra
Yes	print_VvrLiqUpt
Yes	print_ZRoot
Yes	print_FlvLiqDra_1
Yes	print_FlvLiqDra_2
Yes	print_FlvLiqPrc
Yes	print_Tem
Yes	print_ConLiqDra_1
Yes	print_ConLiqDra_2
Yes	print_ConLiqDra_3
Yes	print_ConLiqDra_4
Yes	print_ConLiqDra_5
Yes	print_ConLiqDra
Yes	print_ZPnd
Yes	print_AvoLiqSol
Yes	print_ConGas_VPrf
Yes	print_ConLiq_VPrf
Yes	print_ConSys_VPrf
Yes	print_ConSysEq1_VPrf
Yes	print_ConSysNeq_VPrf
Yes	print_PreHea_VPrf
Yes	print_Tem_VPrf
Yes	print_Theta_VPrf
Yes	print_AvoLiqErr

Yes	print_FlvLiqInf
Yes	print_RstAirLam
Yes	print_AmaRunOff
Yes	print_AmaSolSur
Yes	print_VelWnd
Yes	print_TemAir
Yes	print_FlvLiqCanDrp
Yes	print_ConLiqPer
Yes	print_CntSysPer
Yes	print_ConLiqTWA2D
Yes	print_ConLiqTWA3D
Yes	print_ConLiqTWA4D
Yes	print_CntSysTWA2D
Yes	print_CntSysTWA3D
Yes	print_CntSysTWA4D
Yes	print_ConLiqTWA1D
Yes	print_CntSysTWA1D
Yes	print_ConLiqPer
Yes	print_CntSysPer

*-----
* End of FOCUSPEARL 5.5.5 input file
*-----

Listing 2: Tier 1a – Representative *.sum report file for PEARL v5.5.5 – 60 g/ha to Winter Cereals at BBCH 11 for the Châteaudun scenario

```

* -----
* PEARL REPORT: Header
* Results from the PEARL model (c) WENR, PBL and RIVM
* PEARL kernel version      : 3.2.20
* SWAP kernel version       : swap3237
* PEARL created on          : 14-Sep-2020
*
* PEARL was called from     : FOCUSPEARL, version 5.5.5
* Working directory         :
D:\Documents\WorkProjects\MartinProjects\PinoxadenModelling\GW\PEARLMACRO_GW\FOCUSPEARL\490
* Run ID                    : 490
* Input file generated on   : 10-11-2022
* -----
*
* ExposureType              : Groundwater
* Scenario data subset      : FOCUS Groundwater version 5
* Location                  : CHATEAUDUN
* Meteo station             : chat-m
* Soil type                 : CHAT-S_Soil
* Crop calendar             : CHAT-WCEREALS
* Substance                 : PXDa3
* Application scheme        : PXD-WCereals-BBCH11-60app-CHAT
* Deposition scheme         : No
* Irrigation scheme         : No
*
* End of PEARL REPORT: Header
* -----

* Key to the annual water balances in the soil system
* -----
* DelLiq      Net storage change of water in profile      (m.a-1)
* Prc          Precipitation                              (m.a-1)
* Irr          Irrigation                                  (m.a-1)
* LeaLbo       Seepage at the lower boundary              (m.a-1)
* LeaGrw       Groundwater recharge                       (m.a-1)
* LeaTgt       Flux at lower boundary of the target layer (m.a-1)
* EvpInt       Evaporation of intercepted water           (m.a-1)
* SolAct       Actual soil evaporation                   (m.a-1)
* TrpAct       Actual transpiration                       (m.a-1)
* Dra          Total discharge to drains and channels     (m.a-1)
* Dra_1        Lateral discharge to primary system       (m.a-1)
* Dra_2        Lateral discharge to secondary system     (m.a-1)
* Dra_3        Lateral discharge to tertiary system      (m.a-1)
* Dra_4        Lateral discharge to tile drains          (m.a-1)
* Dra_5        Lateral discharge to surface drainage system (m.a-1)
* RunOff       Run-off                                    (m.a-1)
* EvpPnd       Evaporation of ponded water               (m.a-1)
* CanDrp       Canopy drip                               (m.a-1)
* SolPot       Potential soil evaporation                 (m.a-1)
* TrpPot       Potential transpiration                   (m.a-1)

* Key to the annual mass balance of substance at the crop
* -----
* AmaAppCrp    Areic mass applied to the crop canopy     (kg.ha-1.a-1)
* DelAmaCrp    Change of areic mass at the crop canopy    (kg.ha-1.a-1)
* AmaVol       Areic mass volatilised from the crop canopy (kg.ha-1.a-1)
* AmaPen       Areic mass penetrated into the plant tissue (kg.ha-1.a-1)
* AmaTra       Areic mass transformed at the crop canopy  (kg.ha-1.a-1)
* AmaDep       Areic mass deposited at the crop canopy    (kg.ha-1.a-1)
* AmaDsp       Areic mass dissipated at the crop canopy   (kg.ha-1.a-1)
* AmaWas       Areic mass washed from the crop canopy     (kg.ha-1.a-1)
* AmaHar       Areic mass removed by harvesting           (kg.ha-1.a-1)

* Key to the annual mass balance of substance in the soil system
* -----
* AmaAppSol     Areic mass applied to the soil system     (kg.ha-1.a-1)

```

```

* DelAma      Change of mass in the soil system      (kg.ha-1.a-1)
* DelAmaEq1   Change of mass in the equilibrium domain (kg.ha-1.a-1)
* DelAmaNeq   Change of mass in the non-equilibrium domain (kg.ha-1.a-1)
* AmaTra      Areic mass transformed in the soil system (kg.ha-1.a-1)
* AmaFor      Areic mass formed in the soil system (kg.ha-1.a-1)
* AmaUpt      Areic mass taken-up from the soil system (kg.ha-1.a-1)
* AmaDra      Areic mass drained from the soil system (kg.ha-1.a-1)
* AmaDra_1    Areic mass drained to the primary system (kg.ha-1.a-1)
* AmaDra_2    Areic mass drained to the secunary system (kg.ha-1.a-1)
* AmaDra_3    Areic mass drained to the tertiary system (kg.ha-1.a-1)
* AmaDra_4    Areic mass drained to tube drains (kg.ha-1.a-1)
* AmaDra_5    Areic mass drained to surface drain system (kg.ha-1.a-1)
* AmaDep      Areic mass deposited at the soil surface (kg.ha-1.a-1)
* AmaVol      Areic mass volatized from the soil surface (kg.ha-1.a-1)
* AmaLea      Areic mass leached from the soil system (kg.ha-1.a-1)
* AmaLeaAqf   Areic mass leached to the deep acquifer (kg.ha-1.a-1)

```

* Key to the output per summary period

```

* -----
* AmaLeaTgt   Areic mass leached from the target layer      (kg.ha-1)
* FlvLeaTgt   Volume of water leached from the target layer (m3.m-2)
* ConLeaTgt   Concentration in water leached from the target layer (ug.L-1)
* -----

```

* Annual water balance of the target layer

```

* -----
* -----
* yr Identifier  DelLiq      Prc      Irr      LeaLbo      LeaTgt      EvpInt      SolAct      TrpAct
Dra  Dra_1  Dra_2  Dra_3  Dra_4  Dra_5  Run  EvpPnd  CanDrp  SolPot  TrpPot
1901 BalWatTgt      0.0511  0.5227  0.0000  0.0264  0.1333  0.0000  0.3351  0.0032
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0010  0.8785
0.0033
1902 BalWatTgt      0.0049  0.4133  0.0000  0.0582  0.0265  0.0000  0.1965  0.1854
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.1040  0.5845
0.2658
1903 BalWatTgt     -0.0235  0.5070  0.0000  0.0611  0.0850  0.0000  0.2712  0.1743
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.1040  0.4978
0.2308
1904 BalWatTgt      0.0104  0.5926  0.0000  0.0504  0.1027  0.0000  0.2550  0.2244
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.1762  0.4992
0.2660
1905 BalWatTgt      0.0201  0.5541  0.0000  0.0940  0.0610  0.0000  0.2382  0.2349
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.1408  0.4930
0.2505
1906 BalWatTgt     -0.0093  0.6045  0.0000  0.1044  0.0919  0.0000  0.3086  0.2133
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0944  0.5072
0.2859
1907 BalWatTgt     -0.0036  0.7325  0.0000  0.0923  0.2115  0.0000  0.2838  0.2409
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.1693  0.4768
0.2628
1908 BalWatTgt      0.0092  0.4733  0.0000  0.1440  0.0551  0.0000  0.2440  0.1649
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0373  0.5561
0.3514
1909 BalWatTgt      0.0026  0.7586  0.0000  0.1601  0.2235  0.0000  0.2989  0.2336
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.2344  0.4724
0.2349
1910 BalWatTgt      0.0255  0.7063  0.0000  0.2535  0.2024  0.0000  0.2658  0.2125
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.1409  0.4882
0.2286
1911 BalWatTgt     -0.0207  0.7866  0.0000  0.2188  0.2888  0.0000  0.2865  0.2320
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.1442  0.4739
0.2439
1912 BalWatTgt      0.0014  0.6903  0.0000  0.2324  0.2149  0.0000  0.2743  0.1999
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.1846  0.4916
0.2364
1913 BalWatTgt      0.0222  0.8047  0.0000  0.2239  0.2382  0.0000  0.3165  0.2276
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.2039  0.5011
0.2313

```

1914 BalWatTgt	-0.0281	0.7277	0.0000	0.1898	0.2336	0.0000	0.3047	0.2175
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1140	0.5294
0.2894								
1915 BalWatTgt	-0.0210	0.6683	0.0000	0.2576	0.1276	0.0000	0.3353	0.2264
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1241	0.5242
0.2618								
1916 BalWatTgt	0.0213	0.8461	0.0000	0.1523	0.2960	0.0000	0.2865	0.2422
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1869	0.5109
0.2663								
1917 BalWatTgt	-0.0087	0.5936	0.0000	0.2421	0.0860	0.0000	0.2649	0.2514
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1912	0.5377
0.2547								
1918 BalWatTgt	0.0096	0.6340	0.0000	0.1082	0.1181	0.0000	0.2927	0.2135
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1039	0.4978
0.2697								
1919 BalWatTgt	-0.0025	0.6577	0.0000	0.0932	0.1897	0.0000	0.2720	0.1986
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1308	0.4590
0.2436								
1920 BalWatTgt	-0.0150	0.6951	0.0000	0.2797	0.2294	0.0000	0.2533	0.2272
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2016	0.4726
0.2341								
1921 BalWatTgt	0.0044	0.5227	0.0000	0.1183	0.0533	0.0000	0.2656	0.1993
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0985	0.5735
0.3049								
1922 BalWatTgt	0.0055	0.4133	0.0000	0.0592	0.0262	0.0000	0.1964	0.1852
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1040	0.5845
0.2658								
1923 BalWatTgt	-0.0234	0.5070	0.0000	0.0607	0.0850	0.0000	0.2712	0.1743
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1040	0.4978
0.2308								
1924 BalWatTgt	0.0104	0.5926	0.0000	0.0503	0.1027	0.0000	0.2550	0.2244
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1762	0.4992
0.2660								
1925 BalWatTgt	0.0201	0.5541	0.0000	0.0939	0.0610	0.0000	0.2382	0.2349
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1408	0.4930
0.2505								
1926 BalWatTgt	-0.0086	0.6045	0.0000	0.1044	0.0933	0.0000	0.3089	0.2109
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0937	0.5075
0.2834								

* Annual water balance of the soil profile

* yr	Identifier	Dra_1	Dra_2	Delliq	Prc	Irr	LeaLbo	LeaGrw	EvapInt	SolAct	TrpAct
				Dra_3	Dra_4	Dra_5	Run	EvapPnd	CanDrp	SolPot	TrpPot
1901	BalWatSol			0.1580	0.5227	0.0000	0.0264	0.0264	0.0000	0.3351	0.0032
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0010	0.8785	0.0033
1902	BalWatSol			-0.0268	0.4133	0.0000	0.0582	0.0582	0.0000	0.1965	0.1854
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1040	0.5845	0.2658
1903	BalWatSol			0.0004	0.5070	0.0000	0.0611	0.0611	0.0000	0.2712	0.1743
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1040	0.4978	0.2308
1904	BalWatSol			0.0627	0.5926	0.0000	0.0504	0.0504	0.0000	0.2550	0.2244
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1762	0.4992	0.2660
1905	BalWatSol			-0.0129	0.5541	0.0000	0.0940	0.0940	0.0000	0.2382	0.2349
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1408	0.4930	0.2505
1906	BalWatSol			-0.0218	0.6045	0.0000	0.1044	0.1044	0.0000	0.3086	0.2133
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0944	0.5072	0.2859
1907	BalWatSol			0.1156	0.7325	0.0000	0.0923	0.0923	0.0000	0.2838	0.2409
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1693	0.4768	0.2628
1908	BalWatSol			-0.0796	0.4733	0.0000	0.1440	0.1440	0.0000	0.2440	0.1649
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0373	0.5561	0.3514

1909 BalWatSol	0.0660	0.7586	0.0000	0.1601	0.1601	0.0000	0.2989	0.2336
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2344	0.4724
0.2349								
1910 BalWatSol	-0.0256	0.7063	0.0000	0.2535	0.2535	0.0000	0.2658	0.2125
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1409	0.4882
0.2286								
1911 BalWatSol	0.0492	0.7866	0.0000	0.2188	0.2188	0.0000	0.2865	0.2320
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1442	0.4739
0.2439								
1912 BalWatSol	-0.0161	0.6903	0.0000	0.2324	0.2324	0.0000	0.2743	0.1999
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1846	0.4916
0.2364								
1913 BalWatSol	0.0366	0.8047	0.0000	0.2239	0.2239	0.0000	0.3165	0.2276
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2039	0.5011
0.2313								
1914 BalWatSol	0.0156	0.7277	0.0000	0.1898	0.1898	0.0000	0.3047	0.2175
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1140	0.5294
0.2894								
1915 BalWatSol	-0.1510	0.6683	0.0000	0.2576	0.2576	0.0000	0.3353	0.2264
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1241	0.5242
0.2618								
1916 BalWatSol	0.1651	0.8461	0.0000	0.1523	0.1523	0.0000	0.2865	0.2422
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1869	0.5109
0.2663								
1917 BalWatSol	-0.1649	0.5936	0.0000	0.2421	0.2421	0.0000	0.2649	0.2514
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1912	0.5377
0.2547								
1918 BalWatSol	0.0196	0.6340	0.0000	0.1082	0.1082	0.0000	0.2927	0.2135
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1039	0.4978
0.2697								
1919 BalWatSol	0.0939	0.6577	0.0000	0.0932	0.0932	0.0000	0.2720	0.1986
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1308	0.4590
0.2436								
1920 BalWatSol	-0.0653	0.6951	0.0000	0.2797	0.2797	0.0000	0.2533	0.2272
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2016	0.4726
0.2341								
1921 BalWatSol	-0.0606	0.5227	0.0000	0.1183	0.1183	0.0000	0.2656	0.1993
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0985	0.5735
0.3049								
1922 BalWatSol	-0.0275	0.4133	0.0000	0.0592	0.0592	0.0000	0.1964	0.1852
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1040	0.5845
0.2658								
1923 BalWatSol	0.0009	0.5070	0.0000	0.0607	0.0607	0.0000	0.2712	0.1743
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1040	0.4978
0.2308								
1924 BalWatSol	0.0628	0.5926	0.0000	0.0503	0.0503	0.0000	0.2550	0.2244
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1762	0.4992
0.2660								
1925 BalWatSol	-0.0128	0.5541	0.0000	0.0939	0.0939	0.0000	0.2382	0.2349
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1408	0.4930
0.2505								
1926 BalWatSol	-0.0196	0.6045	0.0000	0.1044	0.1044	0.0000	0.3089	0.2109
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0937	0.5075
0.2834								

* Annual mass balance of substance at the crop canopy

* yr	Identifier	AmaApp	DelAmaCrp	AmaDep	AmaDsp	AmaWas	AmaHar
1901	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1902	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1903	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1904	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1905	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1906	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1907	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1908	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1909	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1910	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1911	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1912	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1913	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

1914	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1915	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1916	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1917	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1918	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1919	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1920	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1921	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1922	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1923	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1924	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1925	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1926	BalCrp_PXDa3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

* Annual mass balance (kg.ha-1) of compound PXDa3 in the target layer

* -----

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	ConLeaTgt					
1901	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1902	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1903	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1904	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1905	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1906	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1907	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1908	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1909	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2117E-17	0.9472E-15					
1910	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1911	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1912	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1913	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1914	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1915	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7076E-17	0.5544E-14					
1916	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5101E-17	0.1723E-14					

1917	BalTgt_PXDa3	0.6000E-01	0.1040E-19	0.1040E-19	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4489E-17	0.5222E-14					
1918	BalTgt_PXDa3	0.6000E-01	-0.1040E-19	-0.1040E-19	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.7259E-20	0.000					
1919	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1920	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1921	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1922	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1923	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1924	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1925	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1926	BalTgt_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					

* Annual mass balance (kg.ha-1) of compound M3a3 in the target layer

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	ConLeaTgt					
1901	BalTgt_M3a3	0.000	0.8845E-03	0.8845E-03	0.000	0.1193E-01	0.1282E-01
0.6416E-05	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9766E-09	0.7328E-06					
1902	BalTgt_M3a3	0.000	0.3229E-05	0.3229E-05	0.000	0.1098E-01	0.1282E-01
0.1836E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1606E-06	0.6064E-03					
1903	BalTgt_M3a3	0.000	0.1862E-03	0.1862E-03	0.000	0.1096E-01	0.1282E-01
0.1667E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3425E-05	0.4027E-02					
1904	BalTgt_M3a3	0.000	0.2411E-03	0.2411E-03	0.000	0.1053E-01	0.1282E-01
0.2033E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1341E-04	0.1306E-01					
1905	BalTgt_M3a3	0.000	0.3161E-03	0.3161E-03	0.000	0.1038E-01	0.1282E-01
0.2095E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2996E-04	0.4911E-01					
1906	BalTgt_M3a3	0.000	-0.6291E-03	-0.6291E-03	0.000	0.1130E-01	0.1282E-01
0.2091E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5331E-04	0.5801E-01					
1907	BalTgt_M3a3	0.000	0.3853E-03	0.3853E-03	0.000	0.1014E-01	0.1282E-01
0.2192E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1025E-03	0.4847E-01					
1908	BalTgt_M3a3	0.000	-0.3316E-03	-0.3316E-03	0.000	0.1193E-01	0.1282E-01
0.1185E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3915E-04	0.7105E-01					
1909	BalTgt_M3a3	0.000	0.8047E-03	0.8047E-03	0.000	0.9918E-02	0.1282E-01
0.1968E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1270E-03	0.5683E-01					
1910	BalTgt_M3a3	0.000	-0.1427E-04	-0.1427E-04	0.000	0.1056E-01	0.1282E-01
0.1958E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3114E-03	0.1539					
1911	BalTgt_M3a3	0.000	-0.3370E-03	-0.3370E-03	0.000	0.1071E-01	0.1282E-01
0.2074E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3666E-03	0.1270					

1912	BalTgt_M3a3	0.000	0.8597E-04	0.8597E-04	0.000	0.1041E-01	0.1282E-01
0.2078E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2465E-03	0.1147					
1913	BalTgt_M3a3	0.000	-0.4582E-04	-0.4582E-04	0.000	0.1061E-01	0.1282E-01
0.2011E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2420E-03	0.1016					
1914	BalTgt_M3a3	0.000	-0.5122E-03	-0.5122E-03	0.000	0.1101E-01	0.1282E-01
0.2091E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2327E-03	0.9961E-01					
1915	BalTgt_M3a3	0.000	0.3813E-03	0.3813E-03	0.000	0.1040E-01	0.1282E-01
0.1914E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1206E-03	0.9447E-01					
1916	BalTgt_M3a3	0.000	0.2560E-03	0.2560E-03	0.000	0.1029E-01	0.1282E-01
0.1961E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3120E-03	0.1054					
1917	BalTgt_M3a3	0.000	0.3294E-03	0.3294E-03	0.000	0.1007E-01	0.1282E-01
0.2219E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1984E-03	0.2308					
1918	BalTgt_M3a3	0.000	-0.3160E-03	-0.3160E-03	0.000	0.1091E-01	0.1282E-01
0.2084E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1374E-03	0.1163					
1919	BalTgt_M3a3	0.000	-0.2354E-03	-0.2354E-03	0.000	0.1109E-01	0.1282E-01
0.1808E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1585E-03	0.8358E-01					
1920	BalTgt_M3a3	0.000	0.1039E-03	0.1039E-03	0.000	0.1046E-01	0.1282E-01
0.1947E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3085E-03	0.1345					
1921	BalTgt_M3a3	0.000	-0.4624E-03	-0.4624E-03	0.000	0.1143E-01	0.1282E-01
0.1830E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2242E-04	0.4207E-01					
1922	BalTgt_M3a3	0.000	-0.1266E-03	-0.1266E-03	0.000	0.1110E-01	0.1282E-01
0.1856E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.7630E-05	0.000					
1923	BalTgt_M3a3	0.000	0.1295E-03	0.1295E-03	0.000	0.1100E-01	0.1282E-01
0.1673E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1526E-04	0.1795E-01					
1924	BalTgt_M3a3	0.000	0.2238E-03	0.2238E-03	0.000	0.1055E-01	0.1282E-01
0.2035E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1390E-04	0.1353E-01					
1925	BalTgt_M3a3	0.000	0.3136E-03	0.3136E-03	0.000	0.1038E-01	0.1282E-01
0.2095E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2826E-04	0.4631E-01					
1926	BalTgt_M3a3	0.000	-0.6292E-03	-0.6292E-03	0.000	0.1130E-01	0.1282E-01
0.2089E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5358E-04	0.5742E-01					

* Annual mass balance (kg.ha-1) of compound M4a3 in the target layer

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	ConLeaTgt					
1901	BalTgt_M4a3	0.000	0.2350E-03	0.2350E-03	0.000	0.1277E-01	0.1300E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1833E-08	0.1375E-05					
1902	BalTgt_M4a3	0.000	0.3126E-05	0.3126E-05	0.000	0.1197E-01	0.1197E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1024E-06	0.3866E-03					
1903	BalTgt_M4a3	0.000	0.4838E-04	0.4838E-04	0.000	0.1190E-01	0.1195E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1845E-05	0.2170E-02					
1904	BalTgt_M4a3	0.000	0.6741E-04	0.6741E-04	0.000	0.1140E-01	0.1148E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9240E-05	0.8997E-02					
1905	BalTgt_M4a3	0.000	0.8586E-04	0.8586E-04	0.000	0.1122E-01	0.1131E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1268E-04	0.2078E-01					
1906	BalTgt_M4a3	0.000	-0.1721E-03	-0.1721E-03	0.000	0.1247E-01	0.1232E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2208E-04	0.2403E-01					

1907	BalTgt_M4a3	0.000	0.1001E-03	0.1001E-03	0.000	0.1090E-01	0.1105E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4888E-04	0.2311E-01					
1908	BalTgt_M4a3	0.000	-0.8852E-04	-0.8852E-04	0.000	0.1308E-01	0.1300E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1032E-04	0.1873E-01					
1909	BalTgt_M4a3	0.000	0.2140E-03	0.2140E-03	0.000	0.1055E-01	0.1081E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5176E-04	0.2316E-01					
1910	BalTgt_M4a3	0.000	-0.1027E-04	-0.1027E-04	0.000	0.1139E-01	0.1152E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1383E-03	0.6834E-01					
1911	BalTgt_M4a3	0.000	-0.8243E-04	-0.8243E-04	0.000	0.1162E-01	0.1168E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1482E-03	0.5131E-01					
1912	BalTgt_M4a3	0.000	0.2223E-04	0.2223E-04	0.000	0.1122E-01	0.1135E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1035E-03	0.4815E-01					
1913	BalTgt_M4a3	0.000	-0.1271E-04	-0.1271E-04	0.000	0.1148E-01	0.1157E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1023E-03	0.4295E-01					
1914	BalTgt_M4a3	0.000	-0.1375E-03	-0.1375E-03	0.000	0.1204E-01	0.1200E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9590E-04	0.4105E-01					
1915	BalTgt_M4a3	0.000	0.9777E-04	0.9777E-04	0.000	0.1119E-01	0.1134E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5015E-04	0.3929E-01					
1916	BalTgt_M4a3	0.000	0.5928E-04	0.5928E-04	0.000	0.1101E-01	0.1122E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1498E-03	0.5059E-01					
1917	BalTgt_M4a3	0.000	0.8931E-04	0.8931E-04	0.000	0.1081E-01	0.1098E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7585E-04	0.8825E-01					
1918	BalTgt_M4a3	0.000	-0.7120E-04	-0.7120E-04	0.000	0.1192E-01	0.1190E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4856E-04	0.4111E-01					
1919	BalTgt_M4a3	0.000	-0.6044E-04	-0.6044E-04	0.000	0.1208E-01	0.1209E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6566E-04	0.3462E-01					
1920	BalTgt_M4a3	0.000	0.2236E-04	0.2236E-04	0.000	0.1125E-01	0.1140E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1335E-03	0.5820E-01					
1921	BalTgt_M4a3	0.000	-0.1216E-03	-0.1216E-03	0.000	0.1257E-01	0.1246E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7421E-05	0.1393E-01					
1922	BalTgt_M4a3	0.000	-0.3016E-04	-0.3016E-04	0.000	0.1213E-01	0.1210E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.3071E-05	0.000					
1923	BalTgt_M4a3	0.000	0.3409E-04	0.3409E-04	0.000	0.1195E-01	0.1199E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5971E-05	0.7020E-02					
1924	BalTgt_M4a3	0.000	0.6306E-04	0.6306E-04	0.000	0.1142E-01	0.1150E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9506E-05	0.9255E-02					
1925	BalTgt_M4a3	0.000	0.8541E-04	0.8541E-04	0.000	0.1122E-01	0.1132E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1246E-04	0.2042E-01					
1926	BalTgt_M4a3	0.000	-0.1723E-03	-0.1723E-03	0.000	0.1248E-01	0.1233E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2244E-04	0.2405E-01					

* Annual mass balance (kg.ha-1) of compound M2a3 in the target layer

* yr	Identifrier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	ConLeaTgt					
1901	BalTgt_M2a3	0.000	0.5378E-10	0.5378E-10	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8885E-11	0.6666E-08					

1902	BalTgt_M2a3	0.000	-0.3192E-10	-0.3192E-10	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.2574E-11	0.000					
1903	BalTgt_M2a3	0.000	0.6075E-10	0.6075E-10	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4908E-11	0.5773E-08					
1904	BalTgt_M2a3	0.000	0.1000E-08	0.1000E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1699E-08	0.1654E-05					
1905	BalTgt_M2a3	0.000	0.5110E-08	0.5110E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2415E-09	0.3958E-06					
1906	BalTgt_M2a3	0.000	-0.6108E-08	-0.6108E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6562E-09	0.7140E-06					
1907	BalTgt_M2a3	0.000	0.2413E-08	0.2413E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9754E-08	0.4611E-05					
1908	BalTgt_M2a3	0.000	-0.2474E-08	-0.2474E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.2767E-08	0.000					
1909	BalTgt_M2a3	0.000	0.3396E-07	0.3396E-07	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6302E-07	0.2820E-04					
1910	BalTgt_M2a3	0.000	-0.2826E-07	-0.2826E-07	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1538E-07	0.7599E-05					
1911	BalTgt_M2a3	0.000	-0.4145E-08	-0.4145E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3376E-08	0.1169E-05					
1912	BalTgt_M2a3	0.000	0.3051E-09	0.3051E-09	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3060E-08	0.1424E-05					
1913	BalTgt_M2a3	0.000	0.2235E-08	0.2235E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1004E-07	0.4215E-05					
1914	BalTgt_M2a3	0.000	-0.4102E-08	-0.4102E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.1577E-09	0.000					
1915	BalTgt_M2a3	0.000	0.4122E-08	0.4122E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2000E-08	0.1567E-05					
1916	BalTgt_M2a3	0.000	0.1123E-08	0.1123E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1314E-06	0.4440E-04					
1917	BalTgt_M2a3	0.000	0.2238E-07	0.2238E-07	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5936E-09	0.6906E-06					
1918	BalTgt_M2a3	0.000	-0.2338E-07	-0.2338E-07	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3312E-08	0.2804E-05					
1919	BalTgt_M2a3	0.000	-0.3603E-08	-0.3603E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3133E-08	0.1652E-05					
1920	BalTgt_M2a3	0.000	0.5173E-08	0.5173E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5422E-08	0.2364E-05					
1921	BalTgt_M2a3	0.000	-0.5720E-08	-0.5720E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.9417E-09	0.000					
1922	BalTgt_M2a3	0.000	-0.7838E-10	-0.7838E-10	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.4955E-09	0.000					
1923	BalTgt_M2a3	0.000	0.4960E-10	0.4960E-10	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.9447E-10	0.000					
1924	BalTgt_M2a3	0.000	0.9982E-09	0.9982E-09	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1651E-08	0.1607E-05					

1925	BalTgt_M2a3	0.000	0.5110E-08	0.5110E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2300E-09	0.3769E-06					
1926	BalTgt_M2a3	0.000	-0.6109E-08	-0.6109E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6526E-09	0.6993E-06					

* Annual mass balance (kg.ha-1) of compound M5a3 in the target layer

```

* -----
* -----
* yr Identifier      AmaAppSol    DelAma DelAmaEqL DelAmaNeq    AmaTra    AmaFor
AmaUpt    AmaDra    AmaDra_1 AmaDra_2 AmaDra_3 AmaDra_4 AmaDra_5 AmaDep
AmaVol    AmaLea    ConLeaTgt
1901 BalTgt_M5a3    0.000    0.6399E-03 0.6399E-03 0.000    0.1091E-01 0.1155E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.5997E-07 0.4500E-04
1902 BalTgt_M5a3    0.000    0.3773E-04 0.3773E-04 0.000    0.1059E-01 0.1063E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.2078E-05 0.7849E-02
1903 BalTgt_M5a3    0.000    0.1609E-03 0.1609E-03 0.000    0.1043E-01 0.1061E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.2264E-04 0.2663E-01
1904 BalTgt_M5a3    0.000    0.1416E-03 0.1416E-03 0.000    0.9973E-02 0.1020E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.8097E-04 0.7884E-01
1905 BalTgt_M5a3    0.000    0.2543E-03 0.2543E-03 0.000    0.9713E-02 0.1005E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.7965E-04 0.1305
1906 BalTgt_M5a3    0.000    -0.4379E-03 -0.4379E-03 0.000    0.1125E-01 0.1094E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.1285E-03 0.1398
1907 BalTgt_M5a3    0.000    0.1477E-03 0.1477E-03 0.000    0.9384E-02 0.9815E-02
0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.2840E-03 0.1343
1908 BalTgt_M5a3    0.000    -0.1539E-03 -0.1539E-03 0.000    0.1166E-01 0.1155E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.4122E-04 0.7481E-01
1909 BalTgt_M5a3    0.000    0.5299E-03 0.5299E-03 0.000    0.8786E-02 0.9602E-02
0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.2861E-03 0.1280
1910 BalTgt_M5a3    0.000    -0.1903E-04 -0.1903E-04 0.000    0.9678E-02 0.1023E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.5683E-03 0.2809
1911 BalTgt_M5a3    0.000    -0.2308E-03 -0.2308E-03 0.000    0.9985E-02 0.1037E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.6196E-03 0.2146
1912 BalTgt_M5a3    0.000    0.1121E-03 0.1121E-03 0.000    0.9498E-02 0.1008E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.4670E-03 0.2174
1913 BalTgt_M5a3    0.000    -0.7455E-04 -0.7455E-04 0.000    0.9848E-02 0.1027E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.4999E-03 0.2099
1914 BalTgt_M5a3    0.000    -0.4013E-03 -0.4013E-03 0.000    0.1059E-01 0.1066E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.4708E-03 0.2015
1915 BalTgt_M5a3    0.000    0.3015E-03 0.3015E-03 0.000    0.9553E-02 0.1007E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.2163E-03 0.1695
1916 BalTgt_M5a3    0.000    -0.1680E-04 -0.1680E-04 0.000    0.9280E-02 0.9961E-02
0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.6979E-03 0.2358
1917 BalTgt_M5a3    0.000    0.3803E-03 0.3803E-03 0.000    0.9110E-02 0.9751E-02
0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.2605E-03 0.3030
1918 BalTgt_M5a3    0.000    -0.1566E-03 -0.1566E-03 0.000    0.1053E-01 0.1057E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.1888E-03 0.1598
1919 BalTgt_M5a3    0.000    -0.1607E-03 -0.1607E-03 0.000    0.1054E-01 0.1073E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.3582E-03 0.1888

```

1920	BalTgt_M5a3	0.000	0.9786E-04	0.9786E-04	0.000	0.9465E-02	0.1013E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5624E-03	0.2452					
1921	BalTgt_M5a3	0.000	-0.3272E-03	-0.3272E-03	0.000	0.1135E-01	0.1106E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4252E-04	0.7980E-01					
1922	BalTgt_M5a3	0.000	-0.8598E-04	-0.8598E-04	0.000	0.1084E-01	0.1074E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.1140E-04	0.000					
1923	BalTgt_M5a3	0.000	0.1151E-03	0.1151E-03	0.000	0.1050E-01	0.1065E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3656E-04	0.4299E-01					
1924	BalTgt_M5a3	0.000	0.1290E-03	0.1290E-03	0.000	0.1000E-01	0.1021E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8053E-04	0.7840E-01					
1925	BalTgt_M5a3	0.000	0.2531E-03	0.2531E-03	0.000	0.9719E-02	0.1005E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7867E-04	0.1290					
1926	BalTgt_M5a3	0.000	-0.4394E-03	-0.4394E-03	0.000	0.1125E-01	0.1095E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1302E-03	0.1395					

* Annual mass balance (kg.ha-1) of compound M52a3 in the target layer

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	ConLeaTgt					
1901	BalTgt_M52a3	0.000	0.1184E-06	0.1184E-06	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8765E-13	0.6577E-10					
1902	BalTgt_M52a3	0.000	-0.8521E-07	-0.8521E-07	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2171E-12	0.8201E-09					
1903	BalTgt_M52a3	0.000	0.4217E-07	0.4217E-07	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2986E-13	0.3511E-10					
1904	BalTgt_M52a3	0.000	0.2775E-06	0.2775E-06	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2269E-10	0.2210E-07					
1905	BalTgt_M52a3	0.000	0.1178E-05	0.1178E-05	0.000	0.5127E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3655E-10	0.5991E-07					
1906	BalTgt_M52a3	0.000	-0.1472E-05	-0.1472E-05	0.000	0.5130E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5463E-10	0.5945E-07					
1907	BalTgt_M52a3	0.000	0.1503E-05	0.1503E-05	0.000	0.5127E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3290E-09	0.1555E-06					
1908	BalTgt_M52a3	0.000	-0.1536E-05	-0.1536E-05	0.000	0.5130E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6166E-10	0.1119E-06					
1909	BalTgt_M52a3	0.000	0.2510E-05	0.2510E-05	0.000	0.5126E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6197E-08	0.2773E-05					
1910	BalTgt_M52a3	0.000	-0.5521E-06	-0.5521E-06	0.000	0.5129E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2901E-07	0.1434E-04					
1911	BalTgt_M52a3	0.000	-0.1281E-05	-0.1281E-05	0.000	0.5129E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.1281E-08	0.000					
1912	BalTgt_M52a3	0.000	-0.4936E-06	-0.4936E-06	0.000	0.5129E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.9712E-09	0.000					
1913	BalTgt_M52a3	0.000	0.8316E-06	0.8316E-06	0.000	0.5127E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3945E-10	0.1656E-07					
1914	BalTgt_M52a3	0.000	-0.1007E-05	-0.1007E-05	0.000	0.5129E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1997E-10	0.8548E-08					

1915	BalTgt_M52a3	0.000	0.2084E-05	0.2084E-05	0.000	0.5126E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8871E-11	0.6950E-08					
1916	BalTgt_M52a3	0.000	0.2106E-06	0.2106E-06	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2075E-07	0.7009E-05					
1917	BalTgt_M52a3	0.000	0.1214E-05	0.1214E-05	0.000	0.5127E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1260E-07	0.1466E-04					
1918	BalTgt_M52a3	0.000	-0.9642E-06	-0.9642E-06	0.000	0.5129E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.2786E-08	0.000					
1919	BalTgt_M52a3	0.000	-0.2429E-05	-0.2429E-05	0.000	0.5131E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.1951E-08	0.000					
1920	BalTgt_M52a3	0.000	0.4319E-06	0.4319E-06	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.8532E-10	0.000					
1921	BalTgt_M52a3	0.000	-0.3798E-06	-0.3798E-06	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.5726E-09	0.000					
1922	BalTgt_M52a3	0.000	-0.1666E-06	-0.1666E-06	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.7530E-09	0.000					
1923	BalTgt_M52a3	0.000	0.4215E-07	0.4215E-07	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.5620E-09	0.000					
1924	BalTgt_M52a3	0.000	0.2775E-06	0.2775E-06	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.3942E-09	0.000					
1925	BalTgt_M52a3	0.000	0.1178E-05	0.1178E-05	0.000	0.5127E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.3078E-09	0.000					
1926	BalTgt_M52a3	0.000	-0.1473E-05	-0.1473E-05	0.000	0.5130E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.2854E-09	0.000					

* Annual mass balance (kg.ha-1) of compound M1a3 in the target layer

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	ConLeaTgt					
1901	BalTgt_M1a3	0.000	0.4325E-03	0.4325E-03	0.000	0.1257E-01	0.1300E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3445E-07	0.2585E-04					
1902	BalTgt_M1a3	0.000	0.1370E-04	0.1370E-04	0.000	0.1195E-01	0.1197E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7574E-06	0.2861E-02					
1903	BalTgt_M1a3	0.000	0.1001E-03	0.1001E-03	0.000	0.1184E-01	0.1195E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9191E-05	0.1081E-01					
1904	BalTgt_M1a3	0.000	0.1140E-03	0.1140E-03	0.000	0.1133E-01	0.1148E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3867E-04	0.3765E-01					
1905	BalTgt_M1a3	0.000	0.1721E-03	0.1721E-03	0.000	0.1110E-01	0.1131E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3935E-04	0.6450E-01					
1906	BalTgt_M1a3	0.000	-0.3196E-03	-0.3196E-03	0.000	0.1258E-01	0.1232E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6655E-04	0.7242E-01					
1907	BalTgt_M1a3	0.000	0.1491E-03	0.1491E-03	0.000	0.1075E-01	0.1105E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1524E-03	0.7202E-01					
1908	BalTgt_M1a3	0.000	-0.1410E-03	-0.1410E-03	0.000	0.1312E-01	0.1300E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1974E-04	0.3583E-01					
1909	BalTgt_M1a3	0.000	0.3962E-03	0.3962E-03	0.000	0.1026E-01	0.1081E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1538E-03	0.6879E-01					

1910	BalTgt_M1a3	0.000	-0.2578E-04	-0.2578E-04	0.000	0.1119E-01	0.1152E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3521E-03	0.1740					
1911	BalTgt_M1a3	0.000	-0.1552E-03	-0.1552E-03	0.000	0.1146E-01	0.1168E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3756E-03	0.1301					
1912	BalTgt_M1a3	0.000	0.6249E-04	0.6249E-04	0.000	0.1101E-01	0.1135E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2750E-03	0.1280					
1913	BalTgt_M1a3	0.000	-0.4041E-04	-0.4041E-04	0.000	0.1132E-01	0.1157E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2852E-03	0.1197					
1914	BalTgt_M1a3	0.000	-0.2699E-03	-0.2699E-03	0.000	0.1201E-01	0.1200E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2644E-03	0.1132					
1915	BalTgt_M1a3	0.000	0.1978E-03	0.1978E-03	0.000	0.1101E-01	0.1134E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1290E-03	0.1011					
1916	BalTgt_M1a3	0.000	0.4589E-04	0.4589E-04	0.000	0.1075E-01	0.1122E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4170E-03	0.1409					
1917	BalTgt_M1a3	0.000	0.2170E-03	0.2170E-03	0.000	0.1059E-01	0.1098E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1707E-03	0.1986					
1918	BalTgt_M1a3	0.000	-0.1207E-03	-0.1207E-03	0.000	0.1190E-01	0.1190E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1136E-03	0.9618E-01					
1919	BalTgt_M1a3	0.000	-0.1105E-03	-0.1105E-03	0.000	0.1201E-01	0.1209E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1916E-03	0.1010					
1920	BalTgt_M1a3	0.000	0.5670E-04	0.5670E-04	0.000	0.1100E-01	0.1140E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3405E-03	0.1485					
1921	BalTgt_M1a3	0.000	-0.2364E-03	-0.2364E-03	0.000	0.1267E-01	0.1246E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2054E-04	0.3855E-01					
1922	BalTgt_M1a3	0.000	-0.5497E-04	-0.5497E-04	0.000	0.1216E-01	0.1210E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.7948E-05	0.000					
1923	BalTgt_M1a3	0.000	0.7300E-04	0.7300E-04	0.000	0.1190E-01	0.1199E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1747E-04	0.2054E-01					
1924	BalTgt_M1a3	0.000	0.1062E-03	0.1062E-03	0.000	0.1135E-01	0.1150E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3872E-04	0.3770E-01					
1925	BalTgt_M1a3	0.000	0.1714E-03	0.1714E-03	0.000	0.1111E-01	0.1132E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3893E-04	0.6380E-01					
1926	BalTgt_M1a3	0.000	-0.3201E-03	-0.3201E-03	0.000	0.1258E-01	0.1233E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6750E-04	0.7233E-01					

* Annual mass balance (kg.ha-1) of compound M6a3 in the target layer

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	ConLeaTgt					
1901	BalTgt_M6a3	0.000	0.2011E-02	0.2011E-02	0.000	0.3213E-02	0.5224E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1778E-08	0.1334E-05					
1902	BalTgt_M6a3	0.000	0.5467E-03	0.5467E-03	0.000	0.4259E-02	0.4809E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2791E-05	0.1054E-01					
1903	BalTgt_M6a3	0.000	0.5339E-03	0.5339E-03	0.000	0.4181E-02	0.4801E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8619E-04	0.1014					
1904	BalTgt_M6a3	0.000	0.1089E-03	0.1089E-03	0.000	0.4174E-02	0.4613E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3295E-03	0.3208					

1905	BalTgt_M6a3	0.000	0.5067E-03	0.5067E-03	0.000	0.3705E-02	0.4545E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3343E-03	0.5478					
1906	BalTgt_M6a3	0.000	-0.2607E-03	-0.2607E-03	0.000	0.4680E-02	0.4951E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5313E-03	0.5782					
1907	BalTgt_M6a3	0.000	-0.5656E-03	-0.5656E-03	0.000	0.3834E-02	0.4441E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1173E-02	0.5544					
1908	BalTgt_M6a3	0.000	0.3548E-03	0.3548E-03	0.000	0.4553E-02	0.5224E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3156E-03	0.5727					
1909	BalTgt_M6a3	0.000	-0.5458E-04	-0.5458E-04	0.000	0.3231E-02	0.4344E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1168E-02	0.5225					
1910	BalTgt_M6a3	0.000	0.1969E-03	0.1969E-03	0.000	0.3222E-02	0.4627E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1208E-02	0.5970					
1911	BalTgt_M6a3	0.000	-0.3673E-03	-0.3673E-03	0.000	0.3514E-02	0.4693E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1546E-02	0.5355					
1912	BalTgt_M6a3	0.000	0.6701E-04	0.6701E-04	0.000	0.3280E-02	0.4559E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1212E-02	0.5639					
1913	BalTgt_M6a3	0.000	-0.9360E-04	-0.9360E-04	0.000	0.3494E-02	0.4648E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1248E-02	0.5239					
1914	BalTgt_M6a3	0.000	-0.4922E-03	-0.4922E-03	0.000	0.3981E-02	0.4821E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1332E-02	0.5703					
1915	BalTgt_M6a3	0.000	0.5123E-03	0.5123E-03	0.000	0.3374E-02	0.4556E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6696E-03	0.5246					
1916	BalTgt_M6a3	0.000	-0.4125E-03	-0.4125E-03	0.000	0.3343E-02	0.4507E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1576E-02	0.5325					
1917	BalTgt_M6a3	0.000	0.8497E-03	0.8497E-03	0.000	0.2992E-02	0.4411E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5697E-03	0.6628					
1918	BalTgt_M6a3	0.000	0.2606E-03	0.2606E-03	0.000	0.3903E-02	0.4780E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6164E-03	0.5219					
1919	BalTgt_M6a3	0.000	-0.4567E-03	-0.4567E-03	0.000	0.4140E-02	0.4856E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1173E-02	0.6183					
1920	BalTgt_M6a3	0.000	-0.2077E-03	-0.2077E-03	0.000	0.3264E-02	0.4581E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1524E-02	0.6646					
1921	BalTgt_M6a3	0.000	0.2810E-03	0.2810E-03	0.000	0.4524E-02	0.5006E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2006E-03	0.3764					
1922	BalTgt_M6a3	0.000	-0.1248E-04	-0.1248E-04	0.000	0.4804E-02	0.4860E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6885E-04	0.2631					
1923	BalTgt_M6a3	0.000	0.8432E-04	0.8432E-04	0.000	0.4411E-02	0.4818E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3234E-03	0.3803					
1924	BalTgt_M6a3	0.000	-0.1025E-03	-0.1025E-03	0.000	0.4294E-02	0.4619E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4276E-03	0.4163					
1925	BalTgt_M6a3	0.000	0.4679E-03	0.4679E-03	0.000	0.3737E-02	0.4547E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3418E-03	0.5603					
1926	BalTgt_M6a3	0.000	-0.2948E-03	-0.2948E-03	0.000	0.4695E-02	0.4952E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5516E-03	0.5911					

* Annual mass balance (kg.ha-1) of compound PXDa3 in the soil profile

* yr	Identif	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	AmaLeaAqf					
1901	BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1902	BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1903	BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1904	BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1905	BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1906	BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1907	BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1908	BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1909	BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1910	BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1911	BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1912	BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1913	BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1914	BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1915	BalSol_PXDa3	0.6000E-01	0.2518E-19	0.2518E-19	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1916	BalSol_PXDa3	0.6000E-01	-0.2518E-19	-0.2518E-19	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1917	BalSol_PXDa3	0.6000E-01	0.5413E-19	0.5413E-19	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1918	BalSol_PXDa3	0.6000E-01	-0.5413E-19	-0.5413E-19	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1919	BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1920	BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1921	BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1922	BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					

1923 BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1924 BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1925 BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1926 BalSol_PXDa3	0.6000E-01	0.000	0.000	0.000	0.6000E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				

* Annual mass balance (kg.ha-1) of compound M3a3 in the soil profile

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	AmaLeaAqf					
1901 BalSol_M3a3	0.000	0.8845E-03	0.8845E-03	0.000	0.1193E-01	0.1282E-01	
0.6416E-05	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1902 BalSol_M3a3	0.000	0.3389E-05	0.3389E-05	0.000	0.1098E-01	0.1282E-01	
0.1836E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1903 BalSol_M3a3	0.000	0.1896E-03	0.1896E-03	0.000	0.1096E-01	0.1282E-01	
0.1667E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1904 BalSol_M3a3	0.000	0.2545E-03	0.2545E-03	0.000	0.1053E-01	0.1282E-01	
0.2033E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1905 BalSol_M3a3	0.000	0.3461E-03	0.3461E-03	0.000	0.1038E-01	0.1282E-01	
0.2095E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1906 BalSol_M3a3	0.000	-0.5757E-03	-0.5757E-03	0.000	0.1130E-01	0.1282E-01	
0.2091E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1907 BalSol_M3a3	0.000	0.4878E-03	0.4878E-03	0.000	0.1014E-01	0.1282E-01	
0.2192E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9799E-16	0.9799E-16					
1908 BalSol_M3a3	0.000	-0.2925E-03	-0.2925E-03	0.000	0.1193E-01	0.1282E-01	
0.1185E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4181E-12	0.4181E-12					
1909 BalSol_M3a3	0.000	0.9317E-03	0.9317E-03	0.000	0.9918E-02	0.1282E-01	
0.1968E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1624E-09	0.1624E-09					
1910 BalSol_M3a3	0.000	0.2971E-03	0.2971E-03	0.000	0.1056E-01	0.1282E-01	
0.1958E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6219E-07	0.6219E-07					
1911 BalSol_M3a3	0.000	0.2820E-04	0.2820E-04	0.000	0.1071E-01	0.1282E-01	
0.2074E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1399E-05	0.1399E-05					
1912 BalSol_M3a3	0.000	0.3215E-03	0.3215E-03	0.000	0.1041E-01	0.1282E-01	
0.2078E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1097E-04	0.1097E-04					
1913 BalSol_M3a3	0.000	0.1612E-03	0.1612E-03	0.000	0.1061E-01	0.1282E-01	
0.2011E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3492E-04	0.3492E-04					
1914 BalSol_M3a3	0.000	-0.3369E-03	-0.3369E-03	0.000	0.1101E-01	0.1282E-01	
0.2091E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5745E-04	0.5745E-04					
1915 BalSol_M3a3	0.000	0.3712E-03	0.3712E-03	0.000	0.1040E-01	0.1282E-01	
0.1914E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1307E-03	0.1307E-03					
1916 BalSol_M3a3	0.000	0.4536E-03	0.4536E-03	0.000	0.1029E-01	0.1282E-01	
0.1961E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1144E-03	0.1144E-03					
1917 BalSol_M3a3	0.000	0.2899E-03	0.2899E-03	0.000	0.1007E-01	0.1282E-01	
0.2219E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2379E-03	0.2379E-03					

1918 BalSol_M3a3	0.000	-0.3001E-03	-0.3001E-03	0.000	0.1091E-01	0.1282E-01
0.2084E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1215E-03	0.1215E-03				
1919 BalSol_M3a3	0.000	-0.1848E-03	-0.1848E-03	0.000	0.1109E-01	0.1282E-01
0.1808E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1080E-03	0.1080E-03				
1920 BalSol_M3a3	0.000	0.9040E-04	0.9040E-04	0.000	0.1046E-01	0.1282E-01
0.1947E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3220E-03	0.3220E-03				
1921 BalSol_M3a3	0.000	-0.5706E-03	-0.5706E-03	0.000	0.1143E-01	0.1282E-01
0.1830E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1307E-03	0.1307E-03				
1922 BalSol_M3a3	0.000	-0.1978E-03	-0.1978E-03	0.000	0.1110E-01	0.1282E-01
0.1856E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6359E-04	0.6359E-04				
1923 BalSol_M3a3	0.000	0.8069E-04	0.8069E-04	0.000	0.1100E-01	0.1282E-01
0.1673E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6409E-04	0.6409E-04				
1924 BalSol_M3a3	0.000	0.1854E-03	0.1854E-03	0.000	0.1055E-01	0.1282E-01
0.2035E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5230E-04	0.5230E-04				
1925 BalSol_M3a3	0.000	0.2456E-03	0.2456E-03	0.000	0.1038E-01	0.1282E-01
0.2095E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9627E-04	0.9627E-04				
1926 BalSol_M3a3	0.000	-0.6823E-03	-0.6823E-03	0.000	0.1130E-01	0.1282E-01
0.2089E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1067E-03	0.1067E-03				

* Annual mass balance (kg.ha-1) of compound M4a3 in the soil profile

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	AmaLeaAqf					
1901 BalSol_M4a3	0.000	0.2350E-03	0.2350E-03	0.000	0.1277E-01	0.1300E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1902 BalSol_M4a3	0.000	0.3228E-05	0.3228E-05	0.000	0.1197E-01	0.1197E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1903 BalSol_M4a3	0.000	0.5022E-04	0.5022E-04	0.000	0.1190E-01	0.1195E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1904 BalSol_M4a3	0.000	0.7665E-04	0.7665E-04	0.000	0.1140E-01	0.1148E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1905 BalSol_M4a3	0.000	0.9854E-04	0.9854E-04	0.000	0.1122E-01	0.1131E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1906 BalSol_M4a3	0.000	-0.1501E-03	-0.1501E-03	0.000	0.1247E-01	0.1232E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.3593E-17	0.3593E-17					
1907 BalSol_M4a3	0.000	0.1490E-03	0.1490E-03	0.000	0.1090E-01	0.1105E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.2357E-13	0.2357E-13					
1908 BalSol_M4a3	0.000	-0.7820E-04	-0.7820E-04	0.000	0.1308E-01	0.1300E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.4318E-10	0.4318E-10					
1909 BalSol_M4a3	0.000	0.2658E-03	0.2658E-03	0.000	0.1055E-01	0.1081E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.6758E-08	0.6758E-08					
1910 BalSol_M4a3	0.000	0.1273E-03	0.1273E-03	0.000	0.1139E-01	0.1152E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.7500E-06	0.7500E-06					
1911 BalSol_M4a3	0.000	0.5940E-04	0.5940E-04	0.000	0.1162E-01	0.1168E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.6353E-05	0.6353E-05					
1912 BalSol_M4a3	0.000	0.1041E-03	0.1041E-03	0.000	0.1122E-01	0.1135E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.2160E-04	0.2160E-04					

1913	BalSol_M4a3	0.000	0.5153E-04	0.5153E-04	0.000	0.1148E-01	0.1157E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3807E-04	0.3807E-04					
1914	BalSol_M4a3	0.000	-0.8986E-04	-0.8986E-04	0.000	0.1204E-01	0.1200E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4828E-04	0.4828E-04					
1915	BalSol_M4a3	0.000	0.4767E-04	0.4767E-04	0.000	0.1119E-01	0.1134E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1003E-03	0.1003E-03					
1916	BalSol_M4a3	0.000	0.1347E-03	0.1347E-03	0.000	0.1101E-01	0.1122E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7438E-04	0.7438E-04					
1917	BalSol_M4a3	0.000	0.4224E-04	0.4224E-04	0.000	0.1081E-01	0.1098E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1229E-03	0.1229E-03					
1918	BalSol_M4a3	0.000	-0.7564E-04	-0.7564E-04	0.000	0.1192E-01	0.1190E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5301E-04	0.5301E-04					
1919	BalSol_M4a3	0.000	-0.3890E-04	-0.3890E-04	0.000	0.1208E-01	0.1209E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4412E-04	0.4412E-04					
1920	BalSol_M4a3	0.000	0.3212E-04	0.3212E-04	0.000	0.1125E-01	0.1140E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1237E-03	0.1237E-03					
1921	BalSol_M4a3	0.000	-0.1631E-03	-0.1631E-03	0.000	0.1257E-01	0.1246E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4890E-04	0.4890E-04					
1922	BalSol_M4a3	0.000	-0.5739E-04	-0.5739E-04	0.000	0.1213E-01	0.1210E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2415E-04	0.2415E-04					
1923	BalSol_M4a3	0.000	0.1497E-04	0.1497E-04	0.000	0.1195E-01	0.1199E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2509E-04	0.2509E-04					
1924	BalSol_M4a3	0.000	0.5120E-04	0.5120E-04	0.000	0.1142E-01	0.1150E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2137E-04	0.2137E-04					
1925	BalSol_M4a3	0.000	0.5584E-04	0.5584E-04	0.000	0.1122E-01	0.1132E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4203E-04	0.4203E-04					
1926	BalSol_M4a3	0.000	-0.2003E-03	-0.2003E-03	0.000	0.1248E-01	0.1233E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5044E-04	0.5044E-04					

* Annual mass balance (kg.ha-1) of compound M2a3 in the soil profile

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	AmaLeaAqf					
1901	BalSol_M2a3	0.000	0.6267E-10	0.6267E-10	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1902	BalSol_M2a3	0.000	-0.3449E-10	-0.3449E-10	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1903	BalSol_M2a3	0.000	0.6566E-10	0.6566E-10	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1904	BalSol_M2a3	0.000	0.2699E-08	0.2699E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1905	BalSol_M2a3	0.000	0.5351E-08	0.5351E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1906	BalSol_M2a3	0.000	-0.5452E-08	-0.5452E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1617E-15	0.1617E-15					
1907	BalSol_M2a3	0.000	0.1217E-07	0.1217E-07	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5279E-14	0.5279E-14					

1908	BalSol_M2a3	0.000	-0.5241E-08	-0.5241E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3624E-12	0.3624E-12					
1909	BalSol_M2a3	0.000	0.9697E-07	0.9697E-07	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1491E-10	0.1491E-10					
1910	BalSol_M2a3	0.000	-0.1326E-07	-0.1326E-07	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3764E-09	0.3764E-09					
1911	BalSol_M2a3	0.000	-0.2237E-08	-0.2237E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1468E-08	0.1468E-08					
1912	BalSol_M2a3	0.000	-0.1327E-08	-0.1327E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4692E-08	0.4692E-08					
1913	BalSol_M2a3	0.000	-0.4821E-08	-0.4821E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1710E-07	0.1710E-07					
1914	BalSol_M2a3	0.000	-0.3120E-07	-0.3120E-07	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2694E-07	0.2694E-07					
1915	BalSol_M2a3	0.000	-0.2249E-07	-0.2249E-07	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2861E-07	0.2861E-07					
1916	BalSol_M2a3	0.000	0.1248E-06	0.1248E-06	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7752E-08	0.7752E-08					
1917	BalSol_M2a3	0.000	0.1666E-07	0.1666E-07	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6316E-08	0.6316E-08					
1918	BalSol_M2a3	0.000	-0.2259E-07	-0.2259E-07	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2529E-08	0.2529E-08					
1919	BalSol_M2a3	0.000	-0.2694E-08	-0.2694E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2224E-08	0.2224E-08					
1920	BalSol_M2a3	0.000	0.4789E-09	0.4789E-09	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1012E-07	0.1012E-07					
1921	BalSol_M2a3	0.000	-0.2042E-07	-0.2042E-07	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1376E-07	0.1376E-07					
1922	BalSol_M2a3	0.000	-0.1131E-07	-0.1131E-07	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1073E-07	0.1073E-07					
1923	BalSol_M2a3	0.000	-0.1329E-07	-0.1329E-07	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1324E-07	0.1324E-07					
1924	BalSol_M2a3	0.000	-0.9343E-08	-0.9343E-08	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1199E-07	0.1199E-07					
1925	BalSol_M2a3	0.000	-0.1726E-07	-0.1726E-07	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2260E-07	0.2260E-07					
1926	BalSol_M2a3	0.000	-0.2756E-07	-0.2756E-07	0.000	0.2218E-01	0.2218E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2210E-07	0.2210E-07					

* Annual mass balance (kg.ha-1) of compound M5a3 in the soil profile

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	AmaLeaAqf					
1901	BalSol_M5a3	0.000	0.6400E-03	0.6400E-03	0.000	0.1091E-01	0.1155E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1902	BalSol_M5a3	0.000	0.3981E-04	0.3981E-04	0.000	0.1059E-01	0.1063E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					

1903	BalSol_M5a3	0.000	0.1835E-03	0.1835E-03	0.000	0.1043E-01	0.1061E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1904	BalSol_M5a3	0.000	0.2226E-03	0.2226E-03	0.000	0.9973E-02	0.1020E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1905	BalSol_M5a3	0.000	0.3339E-03	0.3339E-03	0.000	0.9713E-02	0.1005E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3932E-19	0.3932E-19					
1906	BalSol_M5a3	0.000	-0.3094E-03	-0.3094E-03	0.000	0.1125E-01	0.1094E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1360E-12	0.1360E-12					
1907	BalSol_M5a3	0.000	0.4317E-03	0.4317E-03	0.000	0.9384E-02	0.9815E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4855E-10	0.4855E-10					
1908	BalSol_M5a3	0.000	-0.1127E-03	-0.1127E-03	0.000	0.1166E-01	0.1155E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1285E-07	0.1285E-07					
1909	BalSol_M5a3	0.000	0.8155E-03	0.8155E-03	0.000	0.8786E-02	0.9602E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5748E-06	0.5748E-06					
1910	BalSol_M5a3	0.000	0.5293E-03	0.5293E-03	0.000	0.9678E-02	0.1023E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2004E-04	0.2004E-04					
1911	BalSol_M5a3	0.000	0.3003E-03	0.3003E-03	0.000	0.9985E-02	0.1037E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8854E-04	0.8854E-04					
1912	BalSol_M5a3	0.000	0.3846E-03	0.3846E-03	0.000	0.9498E-02	0.1008E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1945E-03	0.1945E-03					
1913	BalSol_M5a3	0.000	0.1599E-03	0.1599E-03	0.000	0.9848E-02	0.1027E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2654E-03	0.2654E-03					
1914	BalSol_M5a3	0.000	-0.2286E-03	-0.2286E-03	0.000	0.1059E-01	0.1066E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2981E-03	0.2981E-03					
1915	BalSol_M5a3	0.000	-0.3699E-05	-0.3699E-05	0.000	0.9553E-02	0.1007E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5215E-03	0.5215E-03					
1916	BalSol_M5a3	0.000	0.3439E-03	0.3439E-03	0.000	0.9280E-02	0.9961E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3371E-03	0.3371E-03					
1917	BalSol_M5a3	0.000	0.1075E-03	0.1075E-03	0.000	0.9110E-02	0.9751E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5333E-03	0.5333E-03					
1918	BalSol_M5a3	0.000	-0.2000E-03	-0.2000E-03	0.000	0.1053E-01	0.1057E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2321E-03	0.2321E-03					
1919	BalSol_M5a3	0.000	0.1297E-05	0.1297E-05	0.000	0.1054E-01	0.1073E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1962E-03	0.1962E-03					
1920	BalSol_M5a3	0.000	0.1003E-03	0.1003E-03	0.000	0.9465E-02	0.1013E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5600E-03	0.5600E-03					
1921	BalSol_M5a3	0.000	-0.5087E-03	-0.5087E-03	0.000	0.1135E-01	0.1106E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2241E-03	0.2241E-03					
1922	BalSol_M5a3	0.000	-0.2105E-03	-0.2105E-03	0.000	0.1084E-01	0.1074E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1132E-03	0.1132E-03					
1923	BalSol_M5a3	0.000	0.3181E-04	0.3181E-04	0.000	0.1050E-01	0.1065E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1199E-03	0.1199E-03					
1924	BalSol_M5a3	0.000	0.1062E-03	0.1062E-03	0.000	0.1000E-01	0.1021E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1033E-03	0.1033E-03					
1925	BalSol_M5a3	0.000	0.1295E-03	0.1295E-03	0.000	0.9719E-02	0.1005E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2023E-03	0.2023E-03					

1926	BalSol_M5a3	0.000	-0.5440E-03	-0.5440E-03	0.000	0.1125E-01	0.1095E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2348E-03	0.2348E-03					

* Annual mass balance (kg.ha-1) of compound M52a3 in the soil profile

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	AmaLeaAqf					
1901	BalSol_M52a3	0.000	0.1184E-06	0.1184E-06	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1902	BalSol_M52a3	0.000	-0.8521E-07	-0.8521E-07	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1903	BalSol_M52a3	0.000	0.4217E-07	0.4217E-07	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1904	BalSol_M52a3	0.000	0.2775E-06	0.2775E-06	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1905	BalSol_M52a3	0.000	0.1178E-05	0.1178E-05	0.000	0.5127E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1906	BalSol_M52a3	0.000	-0.1472E-05	-0.1472E-05	0.000	0.5130E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1907	BalSol_M52a3	0.000	0.1503E-05	0.1503E-05	0.000	0.5127E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1908	BalSol_M52a3	0.000	-0.1536E-05	-0.1536E-05	0.000	0.5130E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1909	BalSol_M52a3	0.000	0.2516E-05	0.2516E-05	0.000	0.5126E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1910	BalSol_M52a3	0.000	-0.5231E-06	-0.5231E-06	0.000	0.5129E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1911	BalSol_M52a3	0.000	-0.1283E-05	-0.1283E-05	0.000	0.5129E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1912	BalSol_M52a3	0.000	-0.4946E-06	-0.4946E-06	0.000	0.5129E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1913	BalSol_M52a3	0.000	0.8317E-06	0.8317E-06	0.000	0.5127E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1914	BalSol_M52a3	0.000	-0.1007E-05	-0.1007E-05	0.000	0.5129E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1915	BalSol_M52a3	0.000	0.2084E-05	0.2084E-05	0.000	0.5126E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1916	BalSol_M52a3	0.000	0.2313E-06	0.2313E-06	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1917	BalSol_M52a3	0.000	0.1227E-05	0.1227E-05	0.000	0.5127E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1918	BalSol_M52a3	0.000	-0.9670E-06	-0.9670E-06	0.000	0.5129E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1919	BalSol_M52a3	0.000	-0.2431E-05	-0.2431E-05	0.000	0.5131E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1920	BalSol_M52a3	0.000	0.4318E-06	0.4318E-06	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					

1921 BalSol_M52a3	0.000	-0.3803E-06	-0.3803E-06	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1922 BalSol_M52a3	0.000	-0.1674E-06	-0.1674E-06	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1923 BalSol_M52a3	0.000	0.4159E-07	0.4159E-07	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1924 BalSol_M52a3	0.000	0.2771E-06	0.2771E-06	0.000	0.5128E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1925 BalSol_M52a3	0.000	0.1178E-05	0.1178E-05	0.000	0.5127E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1926 BalSol_M52a3	0.000	-0.1473E-05	-0.1473E-05	0.000	0.5130E-02	0.5128E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				

* Annual mass balance (kg.ha-1) of compound M1a3 in the soil profile

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	AmaLeaAqf					
1901 BalSol_M1a3	0.000	0.4325E-03	0.4325E-03	0.000	0.1257E-01	0.1300E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1902 BalSol_M1a3	0.000	0.1445E-04	0.1445E-04	0.000	0.1195E-01	0.1197E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1903 BalSol_M1a3	0.000	0.1092E-03	0.1092E-03	0.000	0.1184E-01	0.1195E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1904 BalSol_M1a3	0.000	0.1527E-03	0.1527E-03	0.000	0.1133E-01	0.1148E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1905 BalSol_M1a3	0.000	0.2115E-03	0.2115E-03	0.000	0.1110E-01	0.1131E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.2040E-15	0.2040E-15					
1906 BalSol_M1a3	0.000	-0.2531E-03	-0.2531E-03	0.000	0.1258E-01	0.1232E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.5707E-12	0.5707E-12					
1907 BalSol_M1a3	0.000	0.3015E-03	0.3015E-03	0.000	0.1075E-01	0.1105E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.6156E-10	0.6156E-10					
1908 BalSol_M1a3	0.000	-0.1213E-03	-0.1213E-03	0.000	0.1312E-01	0.1300E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.8091E-08	0.8091E-08					
1909 BalSol_M1a3	0.000	0.5497E-03	0.5497E-03	0.000	0.1026E-01	0.1081E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.2806E-06	0.2806E-06					
1910 BalSol_M1a3	0.000	0.3170E-03	0.3170E-03	0.000	0.1119E-01	0.1152E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.9264E-05	0.9264E-05					
1911 BalSol_M1a3	0.000	0.1783E-03	0.1783E-03	0.000	0.1146E-01	0.1168E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.4212E-04	0.4212E-04					
1912 BalSol_M1a3	0.000	0.2407E-03	0.2407E-03	0.000	0.1101E-01	0.1135E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.9677E-04	0.9677E-04					
1913 BalSol_M1a3	0.000	0.1064E-03	0.1064E-03	0.000	0.1132E-01	0.1157E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.1383E-03	0.1383E-03					
1914 BalSol_M1a3	0.000	-0.1697E-03	-0.1697E-03	0.000	0.1201E-01	0.1200E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.1641E-03	0.1641E-03					
1915 BalSol_M1a3	0.000	0.2135E-04	0.2135E-04	0.000	0.1101E-01	0.1134E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.3054E-03	0.3054E-03					

1916	BalSol_M1a3	0.000	0.2602E-03	0.2602E-03	0.000	0.1075E-01	0.1122E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2027E-03	0.2027E-03					
1917	BalSol_M1a3	0.000	0.6897E-04	0.6897E-04	0.000	0.1059E-01	0.1098E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3188E-03	0.3188E-03					
1918	BalSol_M1a3	0.000	-0.1437E-03	-0.1437E-03	0.000	0.1190E-01	0.1190E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1366E-03	0.1366E-03					
1919	BalSol_M1a3	0.000	-0.3329E-04	-0.3329E-04	0.000	0.1201E-01	0.1209E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1144E-03	0.1144E-03					
1920	BalSol_M1a3	0.000	0.7414E-04	0.7414E-04	0.000	0.1100E-01	0.1140E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3231E-03	0.3231E-03					
1921	BalSol_M1a3	0.000	-0.3451E-03	-0.3451E-03	0.000	0.1267E-01	0.1246E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1292E-03	0.1292E-03					
1922	BalSol_M1a3	0.000	-0.1284E-03	-0.1284E-03	0.000	0.1216E-01	0.1210E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6548E-04	0.6548E-04					
1923	BalSol_M1a3	0.000	0.2077E-04	0.2077E-04	0.000	0.1190E-01	0.1199E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6970E-04	0.6970E-04					
1924	BalSol_M1a3	0.000	0.8448E-04	0.8448E-04	0.000	0.1135E-01	0.1150E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6043E-04	0.6043E-04					
1925	BalSol_M1a3	0.000	0.9071E-04	0.9071E-04	0.000	0.1111E-01	0.1132E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1196E-03	0.1196E-03					
1926	BalSol_M1a3	0.000	-0.3931E-03	-0.3931E-03	0.000	0.1258E-01	0.1233E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1405E-03	0.1405E-03					

* Annual mass balance (kg.ha-1) of compound M6a3 in the soil profile

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	AmaLeaAqf					
1901	BalSol_M6a3	0.000	0.2011E-02	0.2011E-02	0.000	0.3213E-02	0.5224E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1902	BalSol_M6a3	0.000	0.5495E-03	0.5495E-03	0.000	0.4259E-02	0.4809E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1903	BalSol_M6a3	0.000	0.6200E-03	0.6200E-03	0.000	0.4181E-02	0.4801E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1904	BalSol_M6a3	0.000	0.4384E-03	0.4384E-03	0.000	0.4174E-02	0.4613E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1905	BalSol_M6a3	0.000	0.8409E-03	0.8409E-03	0.000	0.3705E-02	0.4545E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1906	BalSol_M6a3	0.000	0.2707E-03	0.2707E-03	0.000	0.4680E-02	0.4951E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1219E-18	0.1219E-18					
1907	BalSol_M6a3	0.000	0.6071E-03	0.6071E-03	0.000	0.3834E-02	0.4441E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3733E-13	0.3733E-13					
1908	BalSol_M6a3	0.000	0.6703E-03	0.6703E-03	0.000	0.4553E-02	0.5224E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3116E-09	0.3116E-09					
1909	BalSol_M6a3	0.000	0.1113E-02	0.1113E-02	0.000	0.3231E-02	0.4344E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9452E-07	0.9452E-07					
1910	BalSol_M6a3	0.000	0.1391E-02	0.1391E-02	0.000	0.3222E-02	0.4627E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1368E-04	0.1368E-04					

1911	BalSol_M6a3	0.000	0.1050E-02	0.1050E-02	0.000	0.3514E-02	0.4693E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1290E-03	0.1290E-03					
1912	BalSol_M6a3	0.000	0.8012E-03	0.8012E-03	0.000	0.3280E-02	0.4559E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4774E-03	0.4774E-03					
1913	BalSol_M6a3	0.000	0.3057E-03	0.3057E-03	0.000	0.3494E-02	0.4648E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8487E-03	0.8487E-03					
1914	BalSol_M6a3	0.000	-0.7779E-04	-0.7779E-04	0.000	0.3981E-02	0.4821E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9180E-03	0.9180E-03					
1915	BalSol_M6a3	0.000	-0.1931E-03	-0.1931E-03	0.000	0.3374E-02	0.4556E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1375E-02	0.1375E-02					
1916	BalSol_M6a3	0.000	0.3260E-03	0.3260E-03	0.000	0.3343E-02	0.4507E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8377E-03	0.8377E-03					
1917	BalSol_M6a3	0.000	0.8424E-04	0.8424E-04	0.000	0.2992E-02	0.4411E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1335E-02	0.1335E-02					
1918	BalSol_M6a3	0.000	0.2831E-03	0.2831E-03	0.000	0.3903E-02	0.4780E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5939E-03	0.5939E-03					
1919	BalSol_M6a3	0.000	0.2060E-03	0.2060E-03	0.000	0.4140E-02	0.4856E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5102E-03	0.5102E-03					
1920	BalSol_M6a3	0.000	-0.2091E-03	-0.2091E-03	0.000	0.3264E-02	0.4581E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1526E-02	0.1526E-02					
1921	BalSol_M6a3	0.000	-0.1611E-03	-0.1611E-03	0.000	0.4524E-02	0.5006E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6427E-03	0.6427E-03					
1922	BalSol_M6a3	0.000	-0.2631E-03	-0.2631E-03	0.000	0.4804E-02	0.4860E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3195E-03	0.3195E-03					
1923	BalSol_M6a3	0.000	0.8108E-04	0.8108E-04	0.000	0.4411E-02	0.4818E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3267E-03	0.3267E-03					
1924	BalSol_M6a3	0.000	0.5487E-04	0.5487E-04	0.000	0.4294E-02	0.4619E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2702E-03	0.2702E-03					
1925	BalSol_M6a3	0.000	0.3046E-03	0.3046E-03	0.000	0.3737E-02	0.4547E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5051E-03	0.5051E-03					
1926	BalSol_M6a3	0.000	-0.3100E-03	-0.3100E-03	0.000	0.4695E-02	0.4952E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5669E-03	0.5669E-03					

* Intermediate target output for compound PXDa3

* yr	Identifier	Amalea (kg/ha)	FlvLea (m)	ConLea (ug/L)
1907	Target_PXDa3	0.0000	0.21153	0.0000
1908	Target_PXDa3	0.0000	0.05510	0.0000
1909	Target_PXDa3	0.21171E-17	0.22351	0.94720E-15
1910	Target_PXDa3	0.0000	0.20235	0.0000
1911	Target_PXDa3	0.0000	0.28878	0.0000
1912	Target_PXDa3	0.0000	0.21486	0.0000
1913	Target_PXDa3	0.0000	0.23823	0.0000
1914	Target_PXDa3	0.0000	0.23362	0.0000
1915	Target_PXDa3	0.70761E-17	0.12763	0.55443E-14
1916	Target_PXDa3	0.51006E-17	0.29599	0.17232E-14
1917	Target_PXDa3	0.44889E-17	0.08596	0.52223E-14
1918	Target_PXDa3	-0.72590E-20	0.11813	0.0000
1919	Target_PXDa3	0.0000	0.18968	0.0000
1920	Target_PXDa3	0.0000	0.22936	0.0000
1921	Target_PXDa3	0.0000	0.05328	0.0000
1922	Target_PXDa3	0.0000	0.02617	0.0000
1923	Target_PXDa3	0.0000	0.08505	0.0000

1924	Target_PXDa3	0.0000	0.10271	0.0000
1925	Target_PXDa3	0.0000	0.06101	0.0000
1926	Target_PXDa3	0.0000	0.09332	0.0000

* Intermediate target output for compound M3a3

* yr	Identifier	AmaLea (kg/ha)	FlvLea (m)	ConLea (ug/L)
1907	Target_M3a3	0.10253E-03	0.21153	0.48470E-01
1908	Target_M3a3	0.39148E-04	0.05510	0.71049E-01
1909	Target_M3a3	0.12702E-03	0.22351	0.56828E-01
1910	Target_M3a3	0.31138E-03	0.20235	0.15388
1911	Target_M3a3	0.36664E-03	0.28878	0.12696
1912	Target_M3a3	0.24645E-03	0.21486	0.11470
1913	Target_M3a3	0.24198E-03	0.23823	0.10157
1914	Target_M3a3	0.23271E-03	0.23362	0.99612E-01
1915	Target_M3a3	0.12058E-03	0.12763	0.94473E-01
1916	Target_M3a3	0.31200E-03	0.29599	0.10541
1917	Target_M3a3	0.19842E-03	0.08596	0.23084
1918	Target_M3a3	0.13743E-03	0.11813	0.11634
1919	Target_M3a3	0.15853E-03	0.18968	0.83581E-01
1920	Target_M3a3	0.30850E-03	0.22936	0.13450
1921	Target_M3a3	0.22419E-04	0.05328	0.42073E-01
1922	Target_M3a3	-0.76299E-05	0.02617	0.0000
1923	Target_M3a3	0.15263E-04	0.08505	0.17947E-01
1924	Target_M3a3	0.13902E-04	0.10271	0.13535E-01
1925	Target_M3a3	0.28256E-04	0.06101	0.46313E-01
1926	Target_M3a3	0.53583E-04	0.09332	0.57416E-01

* Intermediate target output for compound M4a3

* yr	Identifier	AmaLea (kg/ha)	FlvLea (m)	ConLea (ug/L)
1907	Target_M4a3	0.48879E-04	0.21153	0.23108E-01
1908	Target_M4a3	0.10318E-04	0.05510	0.18725E-01
1909	Target_M4a3	0.51764E-04	0.22351	0.23160E-01
1910	Target_M4a3	0.13829E-03	0.20235	0.68340E-01
1911	Target_M4a3	0.14818E-03	0.28878	0.51314E-01
1912	Target_M4a3	0.10345E-03	0.21486	0.48148E-01
1913	Target_M4a3	0.10231E-03	0.23823	0.42946E-01
1914	Target_M4a3	0.95897E-04	0.23362	0.41049E-01
1915	Target_M4a3	0.50147E-04	0.12763	0.39291E-01
1916	Target_M4a3	0.14975E-03	0.29599	0.50595E-01
1917	Target_M4a3	0.75852E-04	0.08596	0.88246E-01
1918	Target_M4a3	0.48564E-04	0.11813	0.41112E-01
1919	Target_M4a3	0.65661E-04	0.18968	0.34617E-01
1920	Target_M4a3	0.13349E-03	0.22936	0.58201E-01
1921	Target_M4a3	0.74209E-05	0.05328	0.13927E-01
1922	Target_M4a3	-0.30707E-05	0.02617	0.0000
1923	Target_M4a3	0.59705E-05	0.08505	0.70202E-02
1924	Target_M4a3	0.95064E-05	0.10271	0.92551E-02
1925	Target_M4a3	0.12460E-04	0.06101	0.20423E-01
1926	Target_M4a3	0.22445E-04	0.09332	0.24050E-01

* Intermediate target output for compound M2a3

* yr	Identifier	AmaLea (kg/ha)	FlvLea (m)	ConLea (ug/L)
1907	Target_M2a3	0.97543E-08	0.21153	0.46114E-05
1908	Target_M2a3	-0.27669E-08	0.05510	0.0000
1909	Target_M2a3	0.63021E-07	0.22351	0.28196E-04
1910	Target_M2a3	0.15376E-07	0.20235	0.75987E-05
1911	Target_M2a3	0.33764E-08	0.28878	0.11692E-05
1912	Target_M2a3	0.30596E-08	0.21486	0.14240E-05
1913	Target_M2a3	0.10041E-07	0.23823	0.42147E-05
1914	Target_M2a3	-0.15774E-09	0.23362	0.0000
1915	Target_M2a3	0.20000E-08	0.12763	0.15671E-05
1916	Target_M2a3	0.13142E-06	0.29599	0.44401E-04

1917	Target_M2a3	0.59358E-09	0.08596	0.69058E-06
1918	Target_M2a3	0.33124E-08	0.11813	0.28041E-05
1919	Target_M2a3	0.31329E-08	0.18968	0.16517E-05
1920	Target_M2a3	0.54224E-08	0.22936	0.23641E-05
1921	Target_M2a3	-0.94171E-09	0.05328	0.0000
1922	Target_M2a3	-0.49549E-09	0.02617	0.0000
1923	Target_M2a3	-0.94471E-10	0.08505	0.0000
1924	Target_M2a3	0.16509E-08	0.10271	0.16073E-05
1925	Target_M2a3	0.22997E-09	0.06101	0.37694E-06
1926	Target_M2a3	0.65258E-09	0.09332	0.69926E-06

* Intermediate target output for compound M5a3

* yr	Identifier	AmaLea (kg/ha)	FlvLea (m)	ConLea (ug/L)
1907	Target_M5a3	0.28399E-03	0.21153	0.13426
1908	Target_M5a3	0.41219E-04	0.05510	0.74808E-01
1909	Target_M5a3	0.28609E-03	0.22351	0.12800
1910	Target_M5a3	0.56833E-03	0.20235	0.28086
1911	Target_M5a3	0.61964E-03	0.28878	0.21458
1912	Target_M5a3	0.46703E-03	0.21486	0.21736
1913	Target_M5a3	0.49993E-03	0.23823	0.20986
1914	Target_M5a3	0.47077E-03	0.23362	0.20152
1915	Target_M5a3	0.21632E-03	0.12763	0.16949
1916	Target_M5a3	0.69785E-03	0.29599	0.23577
1917	Target_M5a3	0.26047E-03	0.08596	0.30303
1918	Target_M5a3	0.18878E-03	0.11813	0.15981
1919	Target_M5a3	0.35819E-03	0.18968	0.18884
1920	Target_M5a3	0.56239E-03	0.22936	0.24519
1921	Target_M5a3	0.42521E-04	0.05328	0.79799E-01
1922	Target_M5a3	-0.11404E-04	0.02617	0.0000
1923	Target_M5a3	0.36560E-04	0.08505	0.42988E-01
1924	Target_M5a3	0.80531E-04	0.10271	0.78402E-01
1925	Target_M5a3	0.78674E-04	0.06101	0.12895
1926	Target_M5a3	0.13016E-03	0.09332	0.13947

* Intermediate target output for compound M52a3

* yr	Identifier	AmaLea (kg/ha)	FlvLea (m)	ConLea (ug/L)
1907	Target_M52a3	0.32896E-09	0.21153	0.15552E-06
1908	Target_M52a3	0.61656E-10	0.05510	0.11190E-06
1909	Target_M52a3	0.61974E-08	0.22351	0.27727E-05
1910	Target_M52a3	0.29010E-07	0.20235	0.14336E-04
1911	Target_M52a3	-0.12814E-08	0.28878	0.0000
1912	Target_M52a3	-0.97122E-09	0.21486	0.0000
1913	Target_M52a3	0.39450E-10	0.23823	0.16560E-07
1914	Target_M52a3	0.19970E-10	0.23362	0.85481E-08
1915	Target_M52a3	0.88708E-11	0.12763	0.69505E-08
1916	Target_M52a3	0.20747E-07	0.29599	0.70094E-05
1917	Target_M52a3	0.12597E-07	0.08596	0.14656E-04
1918	Target_M52a3	-0.27860E-08	0.11813	0.0000
1919	Target_M52a3	-0.19510E-08	0.18968	0.0000
1920	Target_M52a3	-0.85323E-10	0.22936	0.0000
1921	Target_M52a3	-0.57262E-09	0.05328	0.0000
1922	Target_M52a3	-0.75304E-09	0.02617	0.0000
1923	Target_M52a3	-0.56202E-09	0.08505	0.0000
1924	Target_M52a3	-0.39416E-09	0.10271	0.0000
1925	Target_M52a3	-0.30777E-09	0.06101	0.0000
1926	Target_M52a3	-0.28540E-09	0.09332	0.0000

* Intermediate target output for compound M1a3

* yr	Identifier	AmaLea (kg/ha)	FlvLea (m)	ConLea (ug/L)
1907	Target_M1a3	0.15235E-03	0.21153	0.72024E-01
1908	Target_M1a3	0.19744E-04	0.05510	0.35833E-01
1909	Target_M1a3	0.15376E-03	0.22351	0.68791E-01

1910	Target_M1a3	0.35208E-03	0.20235	0.17399
1911	Target_M1a3	0.37559E-03	0.28878	0.13006
1912	Target_M1a3	0.27499E-03	0.21486	0.12799
1913	Target_M1a3	0.28515E-03	0.23823	0.11970
1914	Target_M1a3	0.26437E-03	0.23362	0.11317
1915	Target_M1a3	0.12899E-03	0.12763	0.10106
1916	Target_M1a3	0.41695E-03	0.29599	0.14087
1917	Target_M1a3	0.17074E-03	0.08596	0.19863
1918	Target_M1a3	0.11361E-03	0.11813	0.96175E-01
1919	Target_M1a3	0.19163E-03	0.18968	0.10103
1920	Target_M1a3	0.34053E-03	0.22936	0.14847
1921	Target_M1a3	0.20542E-04	0.05328	0.38552E-01
1922	Target_M1a3	-0.79485E-05	0.02617	0.0000
1923	Target_M1a3	0.17466E-04	0.08505	0.20537E-01
1924	Target_M1a3	0.38724E-04	0.10271	0.37701E-01
1925	Target_M1a3	0.38926E-04	0.06101	0.63803E-01
1926	Target_M1a3	0.67497E-04	0.09332	0.72326E-01

* Intermediate target output for compound M6a3

* yr	Identifier	AmaLea (kg/ha)	FlvLea (m)	ConLea (ug/L)
1907	Target_M6a3	0.11727E-02	0.21153	0.55440
1908	Target_M6a3	0.31557E-03	0.05510	0.57273
1909	Target_M6a3	0.11679E-02	0.22351	0.52254
1910	Target_M6a3	0.12080E-02	0.20235	0.59698
1911	Target_M6a3	0.15463E-02	0.28878	0.53545
1912	Target_M6a3	0.12116E-02	0.21486	0.56390
1913	Target_M6a3	0.12480E-02	0.23823	0.52386
1914	Target_M6a3	0.13324E-02	0.23362	0.57034
1915	Target_M6a3	0.66959E-03	0.12763	0.52464
1916	Target_M6a3	0.15762E-02	0.29599	0.53254
1917	Target_M6a3	0.56968E-03	0.08596	0.66277
1918	Target_M6a3	0.61645E-03	0.11813	0.52186
1919	Target_M6a3	0.11729E-02	0.18968	0.61835
1920	Target_M6a3	0.15244E-02	0.22936	0.66461
1921	Target_M6a3	0.20059E-03	0.05328	0.37644
1922	Target_M6a3	0.68854E-04	0.02617	0.26311
1923	Target_M6a3	0.32344E-03	0.08505	0.38030
1924	Target_M6a3	0.42758E-03	0.10271	0.41627
1925	Target_M6a3	0.34183E-03	0.06101	0.56028
1926	Target_M6a3	0.55162E-03	0.09332	0.59108

* Leaching summary per summary period:

* Rank	Identifier	Percent (%)	DateSta	DateEnd	ConLeaTgt (ug/L)	Year (a)
1	ConLea_PXDa3	2.50	01-Jan-1907	31-Dec-1907	0.00	1907
2	ConLea_PXDa3	7.50	01-Jan-1908	31-Dec-1908	0.00	1908
3	ConLea_PXDa3	12.50	01-Jan-1910	31-Dec-1910	0.00	1910
4	ConLea_PXDa3	17.50	01-Jan-1911	31-Dec-1911	0.00	1911
5	ConLea_PXDa3	22.50	01-Jan-1912	31-Dec-1912	0.00	1912
6	ConLea_PXDa3	27.50	01-Jan-1913	31-Dec-1913	0.00	1913
7	ConLea_PXDa3	32.50	01-Jan-1914	31-Dec-1914	0.00	1914
8	ConLea_PXDa3	37.50	01-Jan-1918	31-Dec-1918	0.00	1918
9	ConLea_PXDa3	42.50	01-Jan-1919	31-Dec-1919	0.00	1919
10	ConLea_PXDa3	47.50	01-Jan-1920	31-Dec-1920	0.00	1920
11	ConLea_PXDa3	52.50	01-Jan-1921	31-Dec-1921	0.00	1921
12	ConLea_PXDa3	57.50	01-Jan-1922	31-Dec-1922	0.00	1922
13	ConLea_PXDa3	62.50	01-Jan-1923	31-Dec-1923	0.00	1923
14	ConLea_PXDa3	67.50	01-Jan-1924	31-Dec-1924	0.00	1924
15	ConLea_PXDa3	72.50	01-Jan-1925	31-Dec-1925	0.00	1925
16	ConLea_PXDa3	77.50	01-Jan-1926	31-Dec-1926	0.00	1926
17	ConLea_PXDa3	82.50	01-Jan-1909	31-Dec-1909	0.9472E-15	1909
18	ConLea_PXDa3	87.50	01-Jan-1916	31-Dec-1916	0.1723E-14	1916
19	ConLea_PXDa3	92.50	01-Jan-1917	31-Dec-1917	0.5222E-14	1917
20	ConLea_PXDa3	97.50	01-Jan-1915	31-Dec-1915	0.5544E-14	1915

* Rank	Identifier	Percent	DateSta	DateEnd	ConLeaTgt	Year
* (-)		(%)			(ug/L)	(a)
1	ConLea_M3a3	2.50	01-Jan-1922	31-Dec-1922	0.00	1922
2	ConLea_M3a3	7.50	01-Jan-1924	31-Dec-1924	0.1353E-01	1924
3	ConLea_M3a3	12.50	01-Jan-1923	31-Dec-1923	0.1795E-01	1923
4	ConLea_M3a3	17.50	01-Jan-1921	31-Dec-1921	0.4207E-01	1921
5	ConLea_M3a3	22.50	01-Jan-1925	31-Dec-1925	0.4631E-01	1925
6	ConLea_M3a3	27.50	01-Jan-1907	31-Dec-1907	0.4847E-01	1907
7	ConLea_M3a3	32.50	01-Jan-1909	31-Dec-1909	0.5683E-01	1909
8	ConLea_M3a3	37.50	01-Jan-1926	31-Dec-1926	0.5742E-01	1926
9	ConLea_M3a3	42.50	01-Jan-1908	31-Dec-1908	0.7105E-01	1908
10	ConLea_M3a3	47.50	01-Jan-1919	31-Dec-1919	0.8358E-01	1919
11	ConLea_M3a3	52.50	01-Jan-1915	31-Dec-1915	0.9447E-01	1915
12	ConLea_M3a3	57.50	01-Jan-1914	31-Dec-1914	0.9961E-01	1914
13	ConLea_M3a3	62.50	01-Jan-1913	31-Dec-1913	0.1016E+00	1913
14	ConLea_M3a3	67.50	01-Jan-1916	31-Dec-1916	0.1054E+00	1916
15	ConLea_M3a3	72.50	01-Jan-1912	31-Dec-1912	0.1147E+00	1912
16	ConLea_M3a3	77.50	01-Jan-1918	31-Dec-1918	0.1163E+00	1918
17	ConLea_M3a3	82.50	01-Jan-1911	31-Dec-1911	0.1270E+00	1911
18	ConLea_M3a3	87.50	01-Jan-1920	31-Dec-1920	0.1345E+00	1920
19	ConLea_M3a3	92.50	01-Jan-1910	31-Dec-1910	0.1539E+00	1910
20	ConLea_M3a3	97.50	01-Jan-1917	31-Dec-1917	0.2308E+00	1917

* Rank	Identifier	Percent	DateSta	DateEnd	ConLeaTgt	Year
* (-)		(%)			(ug/L)	(a)
1	ConLea_M4a3	2.50	01-Jan-1922	31-Dec-1922	0.00	1922
2	ConLea_M4a3	7.50	01-Jan-1923	31-Dec-1923	0.7020E-02	1923
3	ConLea_M4a3	12.50	01-Jan-1924	31-Dec-1924	0.9255E-02	1924
4	ConLea_M4a3	17.50	01-Jan-1921	31-Dec-1921	0.1393E-01	1921
5	ConLea_M4a3	22.50	01-Jan-1908	31-Dec-1908	0.1873E-01	1908
6	ConLea_M4a3	27.50	01-Jan-1925	31-Dec-1925	0.2042E-01	1925
7	ConLea_M4a3	32.50	01-Jan-1907	31-Dec-1907	0.2311E-01	1907
8	ConLea_M4a3	37.50	01-Jan-1909	31-Dec-1909	0.2316E-01	1909
9	ConLea_M4a3	42.50	01-Jan-1926	31-Dec-1926	0.2405E-01	1926
10	ConLea_M4a3	47.50	01-Jan-1919	31-Dec-1919	0.3462E-01	1919
11	ConLea_M4a3	52.50	01-Jan-1915	31-Dec-1915	0.3929E-01	1915
12	ConLea_M4a3	57.50	01-Jan-1914	31-Dec-1914	0.4105E-01	1914
13	ConLea_M4a3	62.50	01-Jan-1918	31-Dec-1918	0.4111E-01	1918
14	ConLea_M4a3	67.50	01-Jan-1913	31-Dec-1913	0.4295E-01	1913
15	ConLea_M4a3	72.50	01-Jan-1912	31-Dec-1912	0.4815E-01	1912
16	ConLea_M4a3	77.50	01-Jan-1916	31-Dec-1916	0.5059E-01	1916
17	ConLea_M4a3	82.50	01-Jan-1911	31-Dec-1911	0.5131E-01	1911
18	ConLea_M4a3	87.50	01-Jan-1920	31-Dec-1920	0.5820E-01	1920
19	ConLea_M4a3	92.50	01-Jan-1910	31-Dec-1910	0.6834E-01	1910
20	ConLea_M4a3	97.50	01-Jan-1917	31-Dec-1917	0.8825E-01	1917

* Rank	Identifier	Percent	DateSta	DateEnd	ConLeaTgt	Year
* (-)		(%)			(ug/L)	(a)
1	ConLea_M2a3	2.50	01-Jan-1908	31-Dec-1908	0.00	1908
2	ConLea_M2a3	7.50	01-Jan-1914	31-Dec-1914	0.00	1914
3	ConLea_M2a3	12.50	01-Jan-1921	31-Dec-1921	0.00	1921
4	ConLea_M2a3	17.50	01-Jan-1922	31-Dec-1922	0.00	1922
5	ConLea_M2a3	22.50	01-Jan-1923	31-Dec-1923	0.00	1923
6	ConLea_M2a3	27.50	01-Jan-1925	31-Dec-1925	0.3769E-06	1925
7	ConLea_M2a3	32.50	01-Jan-1917	31-Dec-1917	0.6906E-06	1917
8	ConLea_M2a3	37.50	01-Jan-1926	31-Dec-1926	0.6993E-06	1926
9	ConLea_M2a3	42.50	01-Jan-1911	31-Dec-1911	0.1169E-05	1911
10	ConLea_M2a3	47.50	01-Jan-1912	31-Dec-1912	0.1424E-05	1912
11	ConLea_M2a3	52.50	01-Jan-1915	31-Dec-1915	0.1567E-05	1915
12	ConLea_M2a3	57.50	01-Jan-1924	31-Dec-1924	0.1607E-05	1924
13	ConLea_M2a3	62.50	01-Jan-1919	31-Dec-1919	0.1652E-05	1919
14	ConLea_M2a3	67.50	01-Jan-1920	31-Dec-1920	0.2364E-05	1920
15	ConLea_M2a3	72.50	01-Jan-1918	31-Dec-1918	0.2804E-05	1918
16	ConLea_M2a3	77.50	01-Jan-1913	31-Dec-1913	0.4215E-05	1913
17	ConLea_M2a3	82.50	01-Jan-1907	31-Dec-1907	0.4611E-05	1907
18	ConLea_M2a3	87.50	01-Jan-1910	31-Dec-1910	0.7599E-05	1910
19	ConLea_M2a3	92.50	01-Jan-1909	31-Dec-1909	0.2820E-04	1909
20	ConLea_M2a3	97.50	01-Jan-1916	31-Dec-1916	0.4440E-04	1916

* Rank	Identifier	Percent	DateSta	DateEnd	ConLeaTgt	Year
* (-)		(%)			(ug/L)	(a)

1	ConLea_M5a3	2.50	01-Jan-1922	31-Dec-1922	0.00	1922
2	ConLea_M5a3	7.50	01-Jan-1923	31-Dec-1923	0.4299E-01	1923
3	ConLea_M5a3	12.50	01-Jan-1908	31-Dec-1908	0.7481E-01	1908
4	ConLea_M5a3	17.50	01-Jan-1924	31-Dec-1924	0.7840E-01	1924
5	ConLea_M5a3	22.50	01-Jan-1921	31-Dec-1921	0.7980E-01	1921
6	ConLea_M5a3	27.50	01-Jan-1909	31-Dec-1909	0.1280E+00	1909
7	ConLea_M5a3	32.50	01-Jan-1925	31-Dec-1925	0.1290E+00	1925
8	ConLea_M5a3	37.50	01-Jan-1907	31-Dec-1907	0.1343E+00	1907
9	ConLea_M5a3	42.50	01-Jan-1926	31-Dec-1926	0.1395E+00	1926
10	ConLea_M5a3	47.50	01-Jan-1918	31-Dec-1918	0.1598E+00	1918
11	ConLea_M5a3	52.50	01-Jan-1915	31-Dec-1915	0.1695E+00	1915
12	ConLea_M5a3	57.50	01-Jan-1919	31-Dec-1919	0.1888E+00	1919
13	ConLea_M5a3	62.50	01-Jan-1914	31-Dec-1914	0.2015E+00	1914
14	ConLea_M5a3	67.50	01-Jan-1913	31-Dec-1913	0.2099E+00	1913
15	ConLea_M5a3	72.50	01-Jan-1911	31-Dec-1911	0.2146E+00	1911
16	ConLea_M5a3	77.50	01-Jan-1912	31-Dec-1912	0.2174E+00	1912
17	ConLea_M5a3	82.50	01-Jan-1916	31-Dec-1916	0.2358E+00	1916
18	ConLea_M5a3	87.50	01-Jan-1920	31-Dec-1920	0.2452E+00	1920
19	ConLea_M5a3	92.50	01-Jan-1910	31-Dec-1910	0.2809E+00	1910
20	ConLea_M5a3	97.50	01-Jan-1917	31-Dec-1917	0.3030E+00	1917
* Rank Identifier Percent DateSta DateEnd ConLeaTgt Year						
* (-) (%) (ug/L) (a)						
1	ConLea_M52a3	2.50	01-Jan-1911	31-Dec-1911	0.00	1911
2	ConLea_M52a3	7.50	01-Jan-1912	31-Dec-1912	0.00	1912
3	ConLea_M52a3	12.50	01-Jan-1918	31-Dec-1918	0.00	1918
4	ConLea_M52a3	17.50	01-Jan-1919	31-Dec-1919	0.00	1919
5	ConLea_M52a3	22.50	01-Jan-1920	31-Dec-1920	0.00	1920
6	ConLea_M52a3	27.50	01-Jan-1921	31-Dec-1921	0.00	1921
7	ConLea_M52a3	32.50	01-Jan-1922	31-Dec-1922	0.00	1922
8	ConLea_M52a3	37.50	01-Jan-1923	31-Dec-1923	0.00	1923
9	ConLea_M52a3	42.50	01-Jan-1924	31-Dec-1924	0.00	1924
10	ConLea_M52a3	47.50	01-Jan-1925	31-Dec-1925	0.00	1925
11	ConLea_M52a3	52.50	01-Jan-1926	31-Dec-1926	0.00	1926
12	ConLea_M52a3	57.50	01-Jan-1915	31-Dec-1915	0.6950E-08	1915
13	ConLea_M52a3	62.50	01-Jan-1914	31-Dec-1914	0.8548E-08	1914
14	ConLea_M52a3	67.50	01-Jan-1913	31-Dec-1913	0.1656E-07	1913
15	ConLea_M52a3	72.50	01-Jan-1908	31-Dec-1908	0.1119E-06	1908
16	ConLea_M52a3	77.50	01-Jan-1907	31-Dec-1907	0.1555E-06	1907
17	ConLea_M52a3	82.50	01-Jan-1909	31-Dec-1909	0.2773E-05	1909
18	ConLea_M52a3	87.50	01-Jan-1916	31-Dec-1916	0.7009E-05	1916
19	ConLea_M52a3	92.50	01-Jan-1910	31-Dec-1910	0.1434E-04	1910
20	ConLea_M52a3	97.50	01-Jan-1917	31-Dec-1917	0.1466E-04	1917
* Rank Identifier Percent DateSta DateEnd ConLeaTgt Year						
* (-) (%) (ug/L) (a)						
1	ConLea_M1a3	2.50	01-Jan-1922	31-Dec-1922	0.00	1922
2	ConLea_M1a3	7.50	01-Jan-1923	31-Dec-1923	0.2054E-01	1923
3	ConLea_M1a3	12.50	01-Jan-1908	31-Dec-1908	0.3583E-01	1908
4	ConLea_M1a3	17.50	01-Jan-1924	31-Dec-1924	0.3770E-01	1924
5	ConLea_M1a3	22.50	01-Jan-1921	31-Dec-1921	0.3855E-01	1921
6	ConLea_M1a3	27.50	01-Jan-1925	31-Dec-1925	0.6380E-01	1925
7	ConLea_M1a3	32.50	01-Jan-1909	31-Dec-1909	0.6879E-01	1909
8	ConLea_M1a3	37.50	01-Jan-1907	31-Dec-1907	0.7202E-01	1907
9	ConLea_M1a3	42.50	01-Jan-1926	31-Dec-1926	0.7233E-01	1926
10	ConLea_M1a3	47.50	01-Jan-1918	31-Dec-1918	0.9618E-01	1918
11	ConLea_M1a3	52.50	01-Jan-1919	31-Dec-1919	0.1010E+00	1919
12	ConLea_M1a3	57.50	01-Jan-1915	31-Dec-1915	0.1011E+00	1915
13	ConLea_M1a3	62.50	01-Jan-1914	31-Dec-1914	0.1132E+00	1914
14	ConLea_M1a3	67.50	01-Jan-1913	31-Dec-1913	0.1197E+00	1913
15	ConLea_M1a3	72.50	01-Jan-1912	31-Dec-1912	0.1280E+00	1912
16	ConLea_M1a3	77.50	01-Jan-1911	31-Dec-1911	0.1301E+00	1911
17	ConLea_M1a3	82.50	01-Jan-1916	31-Dec-1916	0.1409E+00	1916
18	ConLea_M1a3	87.50	01-Jan-1920	31-Dec-1920	0.1485E+00	1920
19	ConLea_M1a3	92.50	01-Jan-1910	31-Dec-1910	0.1740E+00	1910
20	ConLea_M1a3	97.50	01-Jan-1917	31-Dec-1917	0.1986E+00	1917
* Rank Identifier Percent DateSta DateEnd ConLeaTgt Year						
* (-) (%) (ug/L) (a)						
1	ConLea_M6a3	2.50	01-Jan-1922	31-Dec-1922	0.2631E+00	1922
2	ConLea_M6a3	7.50	01-Jan-1921	31-Dec-1921	0.3764E+00	1921

3	ConLea_M6a3	12.50	01-Jan-1923	31-Dec-1923	0.3803E+00	1923
4	ConLea_M6a3	17.50	01-Jan-1924	31-Dec-1924	0.4163E+00	1924
5	ConLea_M6a3	22.50	01-Jan-1918	31-Dec-1918	0.5219E+00	1918
6	ConLea_M6a3	27.50	01-Jan-1909	31-Dec-1909	0.5225E+00	1909
7	ConLea_M6a3	32.50	01-Jan-1913	31-Dec-1913	0.5239E+00	1913
8	ConLea_M6a3	37.50	01-Jan-1915	31-Dec-1915	0.5246E+00	1915
9	ConLea_M6a3	42.50	01-Jan-1916	31-Dec-1916	0.5325E+00	1916
10	ConLea_M6a3	47.50	01-Jan-1911	31-Dec-1911	0.5355E+00	1911
11	ConLea_M6a3	52.50	01-Jan-1907	31-Dec-1907	0.5544E+00	1907
12	ConLea_M6a3	57.50	01-Jan-1925	31-Dec-1925	0.5603E+00	1925
13	ConLea_M6a3	62.50	01-Jan-1912	31-Dec-1912	0.5639E+00	1912
14	ConLea_M6a3	67.50	01-Jan-1914	31-Dec-1914	0.5703E+00	1914
15	ConLea_M6a3	72.50	01-Jan-1908	31-Dec-1908	0.5727E+00	1908
16	ConLea_M6a3	77.50	01-Jan-1926	31-Dec-1926	0.5911E+00	1926
17	ConLea_M6a3	82.50	01-Jan-1910	31-Dec-1910	0.5970E+00	1910
18	ConLea_M6a3	87.50	01-Jan-1919	31-Dec-1919	0.6183E+00	1919
19	ConLea_M6a3	92.50	01-Jan-1917	31-Dec-1917	0.6628E+00	1917
20	ConLea_M6a3	97.50	01-Jan-1920	31-Dec-1920	0.6646E+00	1920

* -----

* PEARL REPORT: Leaching

* Start date : 01-Jan-1901

* End date : 31-Dec-1926

* Target depth : 1.00 m

* Annual application to the soil surface at 06-Apr; dosage = 0.0600 kg.ha-1

* Leaching summary for compound PXDa3

* Molar mass (g.mol-1) : 400.5

* Saturated vapour pressure (Pa) : 0.00 ; measured at (C) 20.0

* Solubility in water (mg.L-1) : 200. ; measured at (C) 25.0

* Half-life (d) in soil : 1.1; measured at (C) 20.0

* Kom (coef. for sorption on soil organic matter) (L.kg-1) : 76.6

* KF (overall sorption coefficient of the soil target layer) (L.kg-1) : 1.01

* Freundlich exponent (-) : 1.06

* Plant uptake factor (-) : 0.00

* -----

* Period leached * number (kg/ha)	From	To	Average substance concentration in water	Water percolated below target depth (mm)	Substance below target depth
1	01-Jan-1907	31-Dec-1907		211.526	
0.0000000			0.000		
2	01-Jan-1908	31-Dec-1908		55.100	
0.0000000			0.000		
3	01-Jan-1909	31-Dec-1909		223.512	
0.0000000			0.000		
4	01-Jan-1910	31-Dec-1910		202.354	
0.0000000			0.000		
5	01-Jan-1911	31-Dec-1911		288.776	
0.0000000			0.000		
6	01-Jan-1912	31-Dec-1912		214.862	
0.0000000			0.000		
7	01-Jan-1913	31-Dec-1913		238.227	
0.0000000			0.000		
8	01-Jan-1914	31-Dec-1914		233.616	
0.0000000			0.000		
9	01-Jan-1915	31-Dec-1915		127.629	
0.0000000			0.000		
10	01-Jan-1916	31-Dec-1916		295.987	
0.0000000			0.000		
11	01-Jan-1917	31-Dec-1917		85.955	
0.0000000			0.000		
12	01-Jan-1918	31-Dec-1918		118.126	-
0.0000000			0.000		

* -----

13	01-Jan-1919	31-Dec-1919		189.678
0.0000000			0.000	
14	01-Jan-1920	31-Dec-1920		229.364
0.0000000			0.000	
15	01-Jan-1921	31-Dec-1921		53.285
0.0000000			0.000	
16	01-Jan-1922	31-Dec-1922		26.169
0.0000000			0.000	
17	01-Jan-1923	31-Dec-1923		85.048
0.0000000			0.000	
18	01-Jan-1924	31-Dec-1924		102.715
0.0000000			0.000	
19	01-Jan-1925	31-Dec-1925		61.010
0.0000000			0.000	
20	01-Jan-1926	31-Dec-1926		93.324
0.0000000			0.000	

* The average concentration of PXDa3 closest to the 80th percentile is 0.000000 ug/L

* Leaching summary for compound M3a3

* Molar mass (g.mol ⁻¹)	:	332.4
* Saturated vapour pressure (Pa)	:	0.00 ; measured at (C) 20.0
* Solubility in water (mg.L ⁻¹)	:	370. ; measured at (C) 25.0
* Half-life (d) in soil	:	39.6; measured at (C) 20.0
* Kom (coef. for sorption on soil organic matter) (L.kg ⁻¹)	:	18.6
* KF (overall sorption coefficient of the soil target layer) (L.kg ⁻¹)	:	0.246
* Freundlich exponent (-)	:	0.96
* Plant uptake factor (-)	:	0.78

* Period leached * number (kg/ha)	From Average concentration in water	To Substance below target depth (mm)	Water percolated below target depth (mm)	Substance below target depth
at target depth (ug/L)				

1	01-Jan-1907	31-Dec-1907		211.526
0.0001025			0.048	
2	01-Jan-1908	31-Dec-1908		55.100
0.0000391			0.071	
3	01-Jan-1909	31-Dec-1909		223.512
0.0001270			0.057	
4	01-Jan-1910	31-Dec-1910		202.354
0.0003114			0.154	
5	01-Jan-1911	31-Dec-1911		288.776
0.0003666			0.127	
6	01-Jan-1912	31-Dec-1912		214.862
0.0002465			0.115	
7	01-Jan-1913	31-Dec-1913		238.227
0.0002420			0.102	
8	01-Jan-1914	31-Dec-1914		233.616
0.0002327			0.100	
9	01-Jan-1915	31-Dec-1915		127.629
0.0001206			0.094	
10	01-Jan-1916	31-Dec-1916		295.987
0.0003120			0.105	
11	01-Jan-1917	31-Dec-1917		85.955
0.0001984			0.231	
12	01-Jan-1918	31-Dec-1918		118.126
0.0001374			0.116	
13	01-Jan-1919	31-Dec-1919		189.678
0.0001585			0.084	
14	01-Jan-1920	31-Dec-1920		229.364
0.0003085			0.135	
15	01-Jan-1921	31-Dec-1921		53.285
0.0000224			0.042	
16	01-Jan-1922	31-Dec-1922		26.169
0.0000076			0.000	

17	01-Jan-1923	31-Dec-1923		85.048
0.0000153			0.018	
18	01-Jan-1924	31-Dec-1924		102.715
0.0000139			0.014	
19	01-Jan-1925	31-Dec-1925		61.010
0.0000283			0.046	
20	01-Jan-1926	31-Dec-1926		93.324
0.0000536			0.057	

* The average concentration of M3a3 closest to the 80th percentile is 0.121651 ug/L

* Leaching summary for compound M4a3

* Molar mass (g.mol ⁻¹)	:	362.4
* Saturated vapour pressure (Pa)	:	0.00 ; measured at (C) 20.0
* Solubility in water (mg.L ⁻¹)	:	0.100E+04; measured at (C) 25.0
* Half-life (d) in soil	:	7.5; measured at (C) 20.0
* Kom (coef. for sorption on soil organic matter) (L.kg ⁻¹)	:	4.6
* KF (overall sorption coefficient of the soil target layer) (L.kg ⁻¹)	:	0.610E-01
* Freundlich exponent (-)	:	0.92
* Plant uptake factor (-)	:	0.00

* Period leached * number (kg/ha)	From Average concentration in water	To Substance below target depth (mm)	Water percolated below target depth (mm)	Substance below target depth
at target depth (ug/L)				

1	01-Jan-1907	31-Dec-1907		211.526
0.0000489			0.023	
2	01-Jan-1908	31-Dec-1908		55.100
0.0000103			0.019	
3	01-Jan-1909	31-Dec-1909		223.512
0.0000518			0.023	
4	01-Jan-1910	31-Dec-1910		202.354
0.0001383			0.068	
5	01-Jan-1911	31-Dec-1911		288.776
0.0001482			0.051	
6	01-Jan-1912	31-Dec-1912		214.862
0.0001035			0.048	
7	01-Jan-1913	31-Dec-1913		238.227
0.0001023			0.043	
8	01-Jan-1914	31-Dec-1914		233.616
0.0000959			0.041	
9	01-Jan-1915	31-Dec-1915		127.629
0.0000501			0.039	
10	01-Jan-1916	31-Dec-1916		295.987
0.0001498			0.051	
11	01-Jan-1917	31-Dec-1917		85.955
0.0000759			0.088	
12	01-Jan-1918	31-Dec-1918		118.126
0.0000486			0.041	
13	01-Jan-1919	31-Dec-1919		189.678
0.0000657			0.035	
14	01-Jan-1920	31-Dec-1920		229.364
0.0001335			0.058	
15	01-Jan-1921	31-Dec-1921		53.285
0.0000074			0.014	
16	01-Jan-1922	31-Dec-1922		26.169
0.0000031			0.000	-
17	01-Jan-1923	31-Dec-1923		85.048
0.0000060			0.007	
18	01-Jan-1924	31-Dec-1924		102.715
0.0000095			0.009	
19	01-Jan-1925	31-Dec-1925		61.010
0.0000125			0.020	
20	01-Jan-1926	31-Dec-1926		93.324
0.0000224			0.024	

* The average concentration of M4a3 closest to the 80th percentile is 0.050955 ug/L

* Leaching summary for compound M2a3

* Molar mass (g.mol⁻¹) : 316.4
 * Saturated vapour pressure (Pa) : 0.00 ; measured at (C) 20.0
 * Solubility in water (mg.L⁻¹) : 0.380E+06; measured at (C) 25.0
 * Half-life (d) in soil : 3.4; measured at (C) 20.0
 * Kom (coef. for sorption on soil organic matter) (L.kg⁻¹) : 0.9
 * KF (overall sorption coefficient of the soil target layer) (L.kg⁻¹) : 0.118E-01
 * Freundlich exponent (-) : 1.01
 * Plant uptake factor (-) : 0.00

 * Period From To Water percolated Substance
 leached Average substance
 * number concentration in water below target depth (mm) below target depth
 (kg/ha)
 *
 at target depth (ug/L)
 * -----

1	01-Jan-1907	31-Dec-1907	211.526	
0.0000000		0.000		
2	01-Jan-1908	31-Dec-1908	55.100	-
0.0000000		0.000		
3	01-Jan-1909	31-Dec-1909	223.512	
0.0000001		0.000		
4	01-Jan-1910	31-Dec-1910	202.354	
0.0000000		0.000		
5	01-Jan-1911	31-Dec-1911	288.776	
0.0000000		0.000		
6	01-Jan-1912	31-Dec-1912	214.862	
0.0000000		0.000		
7	01-Jan-1913	31-Dec-1913	238.227	
0.0000000		0.000		
8	01-Jan-1914	31-Dec-1914	233.616	-
0.0000000		0.000		
9	01-Jan-1915	31-Dec-1915	127.629	
0.0000000		0.000		
10	01-Jan-1916	31-Dec-1916	295.987	
0.0000001		0.000		
11	01-Jan-1917	31-Dec-1917	85.955	
0.0000000		0.000		
12	01-Jan-1918	31-Dec-1918	118.126	
0.0000000		0.000		
13	01-Jan-1919	31-Dec-1919	189.678	
0.0000000		0.000		
14	01-Jan-1920	31-Dec-1920	229.364	
0.0000000		0.000		
15	01-Jan-1921	31-Dec-1921	53.285	-
0.0000000		0.000		
16	01-Jan-1922	31-Dec-1922	26.169	-
0.0000000		0.000		
17	01-Jan-1923	31-Dec-1923	85.048	-
0.0000000		0.000		
18	01-Jan-1924	31-Dec-1924	102.715	
0.0000000		0.000		
19	01-Jan-1925	31-Dec-1925	61.010	
0.0000000		0.000		
20	01-Jan-1926	31-Dec-1926	93.324	
0.0000000		0.000		

* The average concentration of M2a3 closest to the 80th percentile is 0.000004 ug/L

* Leaching summary for compound M5a3

* Molar mass (g.mol⁻¹) : 376.4
 * Saturated vapour pressure (Pa) : 0.00 ; measured at (C) 20.0
 * Solubility in water (mg.L⁻¹) : 0.100E+04; measured at (C) 25.0
 * Half-life (d) in soil : 16.4; measured at (C) 20.0
 * Kom (coef. for sorption on soil organic matter) (L.kg⁻¹) : 1.8
 * KF (overall sorption coefficient of the soil target layer) (L.kg⁻¹) : 0.239E-01

* Freundlich exponent (-) : 0.90
 * Plant uptake factor (-) : 0.00

* -----

* Period leached * number (kg/ha)	From Average substance concentration in water	To Substance below target depth (mm)	Water percolated below target depth (mm)	Substance below target depth
--	---	--	---	---------------------------------

at target depth (ug/L)

* -----

1	01-Jan-1907	31-Dec-1907	211.526	
0.0002840		0.134		
2	01-Jan-1908	31-Dec-1908	55.100	
0.0000412		0.075		
3	01-Jan-1909	31-Dec-1909	223.512	
0.0002861		0.128		
4	01-Jan-1910	31-Dec-1910	202.354	
0.0005683		0.281		
5	01-Jan-1911	31-Dec-1911	288.776	
0.0006196		0.215		
6	01-Jan-1912	31-Dec-1912	214.862	
0.0004670		0.217		
7	01-Jan-1913	31-Dec-1913	238.227	
0.0004999		0.210		
8	01-Jan-1914	31-Dec-1914	233.616	
0.0004708		0.202		
9	01-Jan-1915	31-Dec-1915	127.629	
0.0002163		0.169		
10	01-Jan-1916	31-Dec-1916	295.987	
0.0006979		0.236		
11	01-Jan-1917	31-Dec-1917	85.955	
0.0002605		0.303		
12	01-Jan-1918	31-Dec-1918	118.126	
0.0001888		0.160		
13	01-Jan-1919	31-Dec-1919	189.678	
0.0003582		0.189		
14	01-Jan-1920	31-Dec-1920	229.364	
0.0005624		0.245		
15	01-Jan-1921	31-Dec-1921	53.285	
0.0000425		0.080		
16	01-Jan-1922	31-Dec-1922	26.169	-
0.0000114		0.000		
17	01-Jan-1923	31-Dec-1923	85.048	
0.0000366		0.043		
18	01-Jan-1924	31-Dec-1924	102.715	
0.0000805		0.078		
19	01-Jan-1925	31-Dec-1925	61.010	
0.0000787		0.129		
20	01-Jan-1926	31-Dec-1926	93.324	
0.0001302		0.139		

* The average concentration of M5a3 closest to the 80th percentile is 0.226568 ug/L

* Leaching summary for compound M52a3

* Molar mass (g.mol-1) : 360.3
 * Saturated vapour pressure (Pa) : 0.00 ; measured at (C) 20.0
 * Solubility in water (mg.L-1) : 0.100E+04; measured at (C) 25.0
 * Half-life (d) in soil : 8.4; measured at (C) 20.0
 * Kom (coef. for sorption on soil organic matter) (L.kg-1) : 47.1
 * KF (overall sorption coefficient of the soil target layer) (L.kg-1) : 0.622
 * Freundlich exponent (-) : 0.89
 * Plant uptake factor (-) : 0.00

* -----

* Period leached * number (kg/ha)	From Average substance concentration in water	To Substance below target depth (mm)	Water percolated below target depth (mm)	Substance below target depth
--	---	--	---	---------------------------------

```

*
at target depth (ug/L)
* -----
1      01-Jan-1907 31-Dec-1907      211.526
0.0000000      0.000
2      01-Jan-1908 31-Dec-1908      55.100
0.0000000      0.000
3      01-Jan-1909 31-Dec-1909      223.512
0.0000000      0.000
4      01-Jan-1910 31-Dec-1910      202.354
0.0000000      0.000
5      01-Jan-1911 31-Dec-1911      288.776      -
0.0000000      0.000
6      01-Jan-1912 31-Dec-1912      214.862      -
0.0000000      0.000
7      01-Jan-1913 31-Dec-1913      238.227
0.0000000      0.000
8      01-Jan-1914 31-Dec-1914      233.616
0.0000000      0.000
9      01-Jan-1915 31-Dec-1915      127.629
0.0000000      0.000
10     01-Jan-1916 31-Dec-1916      295.987
0.0000000      0.000
11     01-Jan-1917 31-Dec-1917      85.955
0.0000000      0.000
12     01-Jan-1918 31-Dec-1918      118.126      -
0.0000000      0.000
13     01-Jan-1919 31-Dec-1919      189.678      -
0.0000000      0.000
14     01-Jan-1920 31-Dec-1920      229.364      -
0.0000000      0.000
15     01-Jan-1921 31-Dec-1921      53.285      -
0.0000000      0.000
16     01-Jan-1922 31-Dec-1922      26.169      -
0.0000000      0.000
17     01-Jan-1923 31-Dec-1923      85.048      -
0.0000000      0.000
18     01-Jan-1924 31-Dec-1924      102.715      -
0.0000000      0.000
19     01-Jan-1925 31-Dec-1925      61.010      -
0.0000000      0.000
20     01-Jan-1926 31-Dec-1926      93.324      -
0.0000000      0.000

* The average concentration of M52a3 closest to the 80th percentile is      0.000001 ug/L

* Leaching summary for compound M1a3
* Molar mass (g.mol-1)      :      362.4
* Saturated vapour pressure (Pa)      :      0.00      ; measured at (C) 20.0
* Solubility in water (mg.L-1)      :      0.100E+04; measured at (C) 25.0
* Half-life (d) in soil      :      11.7; measured at (C) 20.0
* Kom (coef. for sorption on soil organic matter) (L.kg-1) :      3.3
* KF (overall sorption coefficient of the soil target layer) (L.kg-1) :      0.437E-01
* Freundlich exponent (-)      :      0.96
* Plant uptake factor (-)      :      0.00
* -----
* Period      From      To      Water percolated      Substance
leached      Average substance      below target depth (mm)      below target depth
* number      concentration in water
(kg/ha)
*
at target depth (ug/L)
* -----
1      01-Jan-1907 31-Dec-1907      211.526
0.0001524      0.072
2      01-Jan-1908 31-Dec-1908      55.100
0.0000197      0.036

```

3	01-Jan-1909	31-Dec-1909		223.512
0.0001538			0.069	
4	01-Jan-1910	31-Dec-1910		202.354
0.0003521			0.174	
5	01-Jan-1911	31-Dec-1911		288.776
0.0003756			0.130	
6	01-Jan-1912	31-Dec-1912		214.862
0.0002750			0.128	
7	01-Jan-1913	31-Dec-1913		238.227
0.0002852			0.120	
8	01-Jan-1914	31-Dec-1914		233.616
0.0002644			0.113	
9	01-Jan-1915	31-Dec-1915		127.629
0.0001290			0.101	
10	01-Jan-1916	31-Dec-1916		295.987
0.0004170			0.141	
11	01-Jan-1917	31-Dec-1917		85.955
0.0001707			0.199	
12	01-Jan-1918	31-Dec-1918		118.126
0.0001136			0.096	
13	01-Jan-1919	31-Dec-1919		189.678
0.0001916			0.101	
14	01-Jan-1920	31-Dec-1920		229.364
0.0003405			0.148	
15	01-Jan-1921	31-Dec-1921		53.285
0.0000205			0.039	
16	01-Jan-1922	31-Dec-1922		26.169
0.0000079			0.000	-
17	01-Jan-1923	31-Dec-1923		85.048
0.0000175			0.021	
18	01-Jan-1924	31-Dec-1924		102.715
0.0000387			0.038	
19	01-Jan-1925	31-Dec-1925		61.010
0.0000389			0.064	
20	01-Jan-1926	31-Dec-1926		93.324
0.0000675			0.072	

* The average concentration of M1a3 closest to the 80th percentile is 0.135466 ug/L

* Leaching summary for compound M6a3

* Molar mass (g.mol ⁻¹)	:	360.4
* Saturated vapour pressure (Pa)	:	0.00 ; measured at (C) 20.0
* Solubility in water (mg.L ⁻¹)	:	0.100E+04; measured at (C) 25.0
* Half-life (d) in soil	:	72.1; measured at (C) 20.0
* Kom (coef. for sorption on soil organic matter) (L.kg ⁻¹)	:	7.8
* KF (overall sorption coefficient of the soil target layer) (L.kg ⁻¹)	:	0.103
* Freundlich exponent (-)	:	0.92
* Plant uptake factor (-)	:	0.00

* Period leached * number (kg/ha)	From Average concentration in water	To Substance below target depth (mm)	Water percolated below target depth	Substance below target depth
at target depth (ug/L)				

1	01-Jan-1907	31-Dec-1907		211.526
0.0011727			0.554	
2	01-Jan-1908	31-Dec-1908		55.100
0.0003156			0.573	
3	01-Jan-1909	31-Dec-1909		223.512
0.0011679			0.523	
4	01-Jan-1910	31-Dec-1910		202.354
0.0012080			0.597	
5	01-Jan-1911	31-Dec-1911		288.776
0.0015463			0.535	
6	01-Jan-1912	31-Dec-1912		214.862
0.0012116			0.564	

7	01-Jan-1913	31-Dec-1913		238.227
0.0012480			0.524	
8	01-Jan-1914	31-Dec-1914		233.616
0.0013324			0.570	
9	01-Jan-1915	31-Dec-1915		127.629
0.0006696			0.525	
10	01-Jan-1916	31-Dec-1916		295.987
0.0015762			0.533	
11	01-Jan-1917	31-Dec-1917		85.955
0.0005697			0.663	
12	01-Jan-1918	31-Dec-1918		118.126
0.0006164			0.522	
13	01-Jan-1919	31-Dec-1919		189.678
0.0011729			0.618	
14	01-Jan-1920	31-Dec-1920		229.364
0.0015244			0.665	
15	01-Jan-1921	31-Dec-1921		53.285
0.0002006			0.376	
16	01-Jan-1922	31-Dec-1922		26.169
0.0000689			0.263	
17	01-Jan-1923	31-Dec-1923		85.048
0.0003234			0.380	
18	01-Jan-1924	31-Dec-1924		102.715
0.0004276			0.416	
19	01-Jan-1925	31-Dec-1925		61.010
0.0003418			0.560	
20	01-Jan-1926	31-Dec-1926		93.324
0.0005516			0.591	

* The average concentration of M6a3 closest to the 80th percentile is 0.594030 ug/L

* End of PEARL REPORT: Leaching

*

*

* PEARL REPORT: Project_Summary

* Report_type Leaching

* Result_text Concentration closest to the 80th percentile (ug/L)

* Run_Id 490

* ExposureType Groundwater

* Scenario data subset FOCUS Groundwater version 5

* Location CHATEAUDUN

* Meteo_station chat-m

* Soil_type CHAT-S_Soil

* Crop_calendar CHAT-WCEREALS

* Substance PXDa3

* Application_scheme PXD-WCereals-BBCH11-60app-CHAT

* Irrigation_scheme No

* Deposition_scheme No

* Result_PXDa3 0.000000

* Result_M3a3 0.121651

* Result_M4a3 0.050955

* Result_M2a3 0.000004

* Result_M5a3 0.226568

* Result_M52a3 0.000001

* Result_M1a3 0.135466

* Result_M6a3 0.594030

* End of PEARL REPORT: Project_Summary

*

*

* The run time was 107 minutes and 10 seconds

Listing 3: Tier 1a – Representative *.psm file for PELMO 6.6.4 – 60 g/ha to Winter Cereals at BBCH 11 (Scheme 1)

```

<COMMENT>
GW simulations      <PNX>
<END COMMENT>
<NUMBER OF SOIL HORIZONS>
0
<END NUMBER OF SOIL HORIZONS>
<APPLICATION>
10      0      0      <number of locations absolute app/relative app>
026      <number of application location>
01 01 01 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 02 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 03 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 04 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 05 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 07 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 08 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 09 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 10 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 11 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 12 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 13 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 14 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 15 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 16 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 17 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 18 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 19 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 20 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 21 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 22 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 23 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 24 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 25 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 26 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
026      C      <number of application location>
06 04 01 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
06 04 02 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>

```


[illegible]


```

01 03 03 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 04 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 05 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 06 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 07 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 08 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 09 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 10 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 11 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 12 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 13 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 14 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 15 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 16 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 17 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 18 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 19 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 20 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 21 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 22 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 23 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 24 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 25 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 03 26 0.06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
1 <pesticide appl. flag: 1=soil 2 =linear 3=exp. foliar 4=manually
<END APPLICATION>
<FLAGS>
1 1 <henry(0=direct 1=calc.) kd_flag(0=direct 1=calc.)>
<END FLAGS>
<VOLATILIZATION>
<henry solub. molmass vap.press diff air depth volat. Hv
Temperature>
3.33E-04 166.1 400.5 0.00E+00 0.0498 0.1 98400 20
6.67E-10 332.2 400.5 0.00E+00 0.0498 0.1 98400 30
<END VOLATILIZATION>
<PLANT UPTAKE>
0 <plant uptake factor
<END PLANT UPTAKE>
<DEGRADATION>
<degrate degtemp q10 moist-abs moist-rel moist-exp rel deg neq sites
stoichiometric factor
0.00E+00 20 2.58 0 100 0.7 0 1
<Met A1>
0.2820808 20 2.58 0 100 0.7 0 1
<Met B1>
0.00E+00 20 2.58 0 100 0.7 0 1
<Met C1>

```

```

0.00E+00  20      2.58      0      100      0.7      0      1
<Met D1>
0.3206559  20      2.58      0      100      0.7      0      1
<BR/CO2>
0
<0 = degradation according to degradation factors, 1 = constant with
depth,2 individual,3 = degradation according to degradation factors, 4 = constant with
depth,5 individual, >2 deg in liquid phase only)
<PHOTODEGRADATION>
<rate 1/n> <I_Ref W/m²>
0 100 0 0 0 0 0 0 0 100
<END DEGRADATION>
<ADSORPTION>
<Koc-value Fr.exp.Koc pH pKa limit for Freundl. ann.incr.> <k_doc> <%
change> KOC2 pH2 f_neq kdes>
132 1.06 -99 20 0.00E+00 0 0 100 -99
-99 0 0
<END ADSORPTION>
<DEPTH DEPENDENT SORPTION AND TRANSFORMATION VALUES>
<Kd Fr.exp. Met A1 Met B1 Met C1 Met D1 BR/CO2 >
<END DEPTH DEPENDENT>
#####
<COMMENT>
METABOLITE B1 M2
<END COMMENT>
<FLAGS>
1 <kd_flag(0=direct 1=calc.)>
<END FLAGS>
<MOLMASS>
316.4
<END MOLMASS>
<PLANT UPTAKE>
0 <plant uptake factor>
<END PLANT UPTAKE>
<DEGRADATION>
<degrate degtemp q10 moist-abs moist-rel moist-exp <rel deg in neq sites>
stoichiometric factor
0.1124575 20 2.58 0 100 0.7 0 1
<Met C1>
0.0415070 20 2.58 0 100 0.7 0 1
<Met B2>
0.00E+00 20 2.58 0 100 0.7 0 1
<Met C2>
0.0505036 20 2.58 0 100 0.7 0 1
<BR/CO2>
0
<0 = degradation according to degradation factors, 1 = constant with
depth,2 individual,3 = degradation according to degradation factors, 4 = constant with
depth,5 individual, >2 deg in liquid phase only)
<END DEGRADATION>
<ADSORPTION>
<Koc-value Fr.exp.Koc pH pKa limit for Freundl. ann.incr.> <k_doc> <%
change> KOC2 pH2 f_neq kdes>
1.54 1.01 -99 20 1E-20 0 0 1000 -99
-99 0 0
<END ADSORPTION>
<DEPTH DEPENDENT SORPTION AND TRANSFORMATION VALUES>
<Kd Fr.exp. Met C1 Met B2 Met C2 BR/CO2 >
<END DEPTH DEPENDENT>
#####
<COMMENT>
METABOLITE C1 M3
<END COMMENT>
<FLAGS>
1 <kd_flag(0=direct 1=calc.)>
<END FLAGS>
<MOLMASS>
332.4
<END MOLMASS>
<PLANT UPTAKE>
0.784 <plant uptake factor>
<END PLANT UPTAKE>
<DEGRADATION>

```

```

<degrate      degtemp      q10      moist-abs      moist-rel      moist-exp      <rel deg in neq sites>
stoichiometric factor
  0.00E+00      20      2.58      0      100      0.7      0      1
<Met D1>
  0.0175037      20      2.58      0      100      0.7      0      1
<Met C2>
  0.00E+00      20      2.58      0      100      0.7      0      1
<Met D2>
  0.00E+00      20      2.58      0      100      0.7      0      1
<BR/CO2>
  0
  <0 = degradation according to degradation factors, 1 = constant with
depth,2 individual,3 = degradation according to degradation factors, 4 = constant with
depth,5 individual, >2 deg in liquid phase only)
<END DEGRADATION>
<ADSORPTION>
<Koc-value      Fr.exp.Koc      pH      pKa      limit for Freundl.      ann.incr.> <k_doc> <%
change> KOC2      pH2      f_neq      kdes>
  32.1      0.96      -99      20      1E-20      0      0      1000      -99
-99      0      0
<END ADSORPTION>
<DEPTH DEPENDENT SORPTION AND TRANSFORMATION VALUES>
<Kd      Fr.exp.      Met D1      Met C2      Met D2      BR/CO2 >
<END DEPTH DEPENDENT>
#####
<COMMENT>
METABOLITE B2      M52
<END COMMENT>
<FLAGS>
  1 <kd_flag(0=direct 1=calc.)>
<END FLAGS>
<MOLMASS>
  360.3
<END MOLMASS>
<PLANT UPTAKE>
  0 <plant uptake factor>
<END PLANT UPTAKE>
<DEGRADATION>
<degrate      degtemp      q10      moist-abs      moist-rel      moist-exp      <rel deg in neq sites>
stoichiometric factor
  0.00E+00      20      2.58      0      100      0.7      0      1
<Met C2>
  0.0822239      20      2.58      0      100      0.7      0      1
<BR/CO2>
  0
  <0 = degradation according to degradation factors, 1 = constant with
depth,2 individual,3 = degradation according to degradation factors, 4 = constant with
depth,5 individual, >2 deg in liquid phase only)
<END DEGRADATION>
<ADSORPTION>
<Koc-value      Fr.exp.Koc      pH      pKa      limit for Freundl.      ann.incr.> <k_doc> <%
change> KOC2      pH2      f_neq      kdes>
  81.1      0.89      -99      20      1E-20      0      0      1000      -99
-99      0      0
<END ADSORPTION>
<DEPTH DEPENDENT SORPTION AND TRANSFORMATION VALUES>
<Kd      Fr.exp.      Met C2      BR/CO2 >
<END DEPTH DEPENDENT>
#####
<COMMENT>
METABOLITE C2      M11
<END COMMENT>
<FLAGS>
  1 <kd_flag(0=direct 1=calc.)>
<END FLAGS>
<MOLMASS>
  362.4
<END MOLMASS>
<PLANT UPTAKE>
  0 <plant uptake factor>
<END PLANT UPTAKE>
<DEGRADATION>

```

```

<degrate      degtemp      q10      moist-abs      moist-rel      moist-exp      <rel deg in neq sites>
stoichiometric factor
  0.00E+00      20      2.58      0      100      0.7      0      1
<Met D2>
  0.0592433      20      2.58      0      100      0.7      0      1
<BR/CO2>
  0
                                <0 = degradation according to degradation factors, 1 = constant with
depth,2 individual,3 = degradation according to degradation factors, 4 = constant with
depth,5 individual, >2 deg in liquid phase only)
<END DEGRADATION>
<ADSORPTION>
<Koc-value      Fr.exp.Koc      pH      pKa      limit for Freundl.      ann.incr.> <k_doc> <%
change> KOC2      pH2      f_neq      kdes>
  5.71      0.96      -99      20      1E-20      0      0      1000      -99
-99      0      0
<END ADSORPTION>
<DEPTH DEPENDENT SORPTION AND TRANSFORMATION VALUES>
<Kd      Fr.exp.      Met D2      BR/CO2 >
<END DEPTH DEPENDENT>
<THE FOLLOWING SECTION IS USED BY THE SHELL ONLY NOT BY PELMO>
<FORMATION FRACTIONS ENTERED BY THE USER (0=NO,1=YES)>
  0
<END FORMATION FRACTIONS>
<END PSM>

```

Listing 4: Tier 1a – Representative FOCUS Summary Output File for PELMO 6.6.4, 60 g/ha to Winter Cereals at BBCH 11 (Scheme 1)

FOCUS Summary Output File

Model Version: FOCUSPELMO 6.6.4
 Date of this simulation: 29/11/2022 12:00:58
 Pesticide input file: TIER3a_PNXM11_WC60_BBCH11
 Simulated crop: Winter cereals

PECgw for ACTIVE SUBSTANCE (PNX)

Location	Selected Period	Flux (g/ha)	Percolate (L/m ²)	Conc. (µg/L)
Châteaudun (C)	(4/15)	2.63E-11	277.910	0.000
Hamburg (H)	(16/9)	4.38E-10	433.070	0.000
Jokioinen (J)	(8/19)	6.08E-10	370.100	0.000
Kremsmünster (K)	(15/12)	9.74E-08	549.300	0.000
Okehampton (N)	(17/5)	3.15E-07	1116.40	0.000
Piacenza (P)	(16/6)	2.27E-06	532.900	0.000
Porto (O)	(11/17)	6.16E-05	1145.40	0.000
Sevilla (S)	(12/1)	3.43E-10	133.220	0.000
Thiva (T)	(14/10)	5.05E-07	326.200	0.000

PECgw for METABOLITE B1 (M2)

Location	Selected Period	Flux (g/ha)	Percolate (L/m ²)	Conc. (µg/L)
Châteaudun (C)	(12/1)	1.01E-05	275.040	0.000
Hamburg (H)	(7/9)	4.75E-04	803.200	0.000
Jokioinen (J)	(7/1)	0.0214670	600.500	0.003
Kremsmünster (K)	(12/6)	0.0067090	553.200	0.001
Okehampton (N)	(9/6)	0.0224320	736.300	0.003
Piacenza (P)	(8/10)	0.1189100	1121.40	0.010
Porto (O)	(13/3)	1.7578000	1847.40	0.095
Sevilla (S)	(3/1)	5.62E-05	312.610	0.000
Thiva (T)	(14/17)	0.0012377	310.570	0.000

PECgw for METABOLITE C1 (M3)

Location	Selected Period	Flux (g/ha)	Percolate (L/m ²)	Conc. (µg/L)
Châteaudun (C)	(6/12)	0.2873500	305.740	0.093
Hamburg (H)	(11/8)	0.9110000	353.800	0.257
Jokioinen (J)	(8/5)	1.2687000	411.800	0.309
Kremsmünster (K)	(5/4)	2.9600000	953.300	0.311
Okehampton (N)	(7/4)	3.2830000	943.700	0.343
Piacenza (P)	(16/8)	1.7151000	893.200	0.196
Porto (O)	(7/12)	2.6800000	1128.10	0.239
Sevilla (S)	(16/15)	0.0473400	422.670	0.012
Thiva (T)	(9/6)	0.1843800	347.400	0.052

PECgw for METABOLITE B2 (M52)

Location	Selected Period	Flux (g/ha)	Percolate (L/m ²)	Conc. (µg/L)
Châteaudun (C)	(9/5)	1.77E-06	378.100	0.000
Hamburg (H)	(19/10)	5.23E-04	775.100	0.000
Jokioinen (J)	(20/8)	0.0016340	329.200	0.001
Kremsmünster (K)	(13/11)	0.0054990	719.100	0.001
Okehampton (N)	(4/7)	0.0073520	943.700	0.001

Piacenza (P)	(8/16)	0.0100120	893.200	0.001
Porto (O)	(9/7)	0.0093210	955.900	0.001
Sevilla (S)	(3/1)	3.20E-07	312.610	0.000
Thiva (T)	(8/2)	1.05E-05	249.300	0.000

PECgw for METABOLITE C2 (M11)

Location	Selected Period	Flux (g/ha)	Percolate (L/m ²)	Conc. (µg/L)
Châteaudun (C)	(6/4)	0.4214000	427.700	0.099
Hamburg (H)	(11/13)	1.4135000	442.200	0.321
Jokioinen (J)	(17/3)	4.2040000	737.600	0.568
Kremsmünster (K)	(12/11)	1.4492000	574.000	0.253
Okehampton (N)	(10/7)	3.2510000	1188.40	0.274
Piacenza (P)	(19/17)	0.8265000	479.300	0.172
Porto (O)	(2/4)	3.0730000	1550.70	0.199
Sevilla (S)	(3/9)	0.1244100	510.700	0.025
Thiva (T)	(9/6)	0.2367800	347.400	0.065

Listing 5: Tier 1b – Representative *.prl input file for PEARL v5.5.5 – 45 g/ha to Spring Cereals at BBCH 21 for the Châteaudun scenario

```

* -----
* INPUT FILE for PEARL
* Generated by user interface version FOCUSPEARL 5.5.5 (build : 5.5.5) (October 2020) on
18/11/2022 18:00:01
* -----
* This file is intended to be used by expert users.
*
* Contact addresses:
* -----
* Aaldrik Tiktak                                Erik van den Berg
* Environmental Assessment Agency (PBL)          Wageningen Environmental Research (WENR)
* PO BOX 30314                                  PO BOX 47
* 2500 GH The Hague                            6700 AA Wageningen
* The Netherlands                             The Netherlands
* e-mail: aaldrik.tiktak@pbl.nl                 erik.vandenberg@wur.nl
*
* (c) 2020 RIVM, PBL, WENR
* -----
* Section 1: Control section
* -----

FOCUSPEARL      CallingProgram
5.5.5           CallingProgramVersion
Groundwater     ExposureType
6              InitYears (y)
0              NumRep (-)
01-Jan-1901     TimStart
31-Dec-1926     TimEnd
0.001          ThetaTol (m3.m-3)
Month          OptDelTimPrn
30            DelTimPrn (d)
OnLine         OptHyd
1E-5          DelTimSwaMin (d)
0.2           DelTimSwaMax (d)
Yes           PrintCumulatives
1.0           GWLTol (m)
30           MaxItSwa
No           OptHysteresis
0.2          PreHeaWetDryMin (cm)
All          OptSys
Yes          OptScreen
No           OptPaddy
No           OptMacropore
None        OptAux

* -----
* Section 2: Soil section
* -----

CHAT-S_Soil SoilTypeID
CHATEAUDUN Location
table SoilProfile
ThiHor NumLay
(m)
0.01    5
0.24    24
0.05    5
0.2     16
0.1     4
0.4     16
0.2     4
0.3     6
0.4     4
2.6    26
end_table

```

horizon SoilProperties					
Nr	FraSand (kg.kg-1)	FraSilt (kg.kg-1)	FraClay (kg.kg-1)	CntOm (kg.kg-1)	pH (-)
1	0.03	0.67	0.3	0.024	8
2	0.03	0.67	0.3	0.024	8
3	0.02	0.67	0.31	0.016	8.1
4	0.02	0.67	0.31	0.016	8.1
5	0.08	0.67	0.25	0.012	8.2
6	0.3	0.44	0.26	0.005	8.5
7	0.3	0.44	0.26	0.005	8.5
8	0.38	0.38	0.24	0.0046	8.5
9	0.38	0.38	0.24	0.0046	8.5
10	0.08	0.61	0.31	0.0036	8.3

end_table

horizon VanGenuchtenPar							
Nr	ThetaSat (m3.m-3)	ThetaRes (m3.m-3)	AlphaDry (cm-1)	AlphaWet (cm-1)	n (-)	KSat (m.d-1)	l (-)
1	0.43	0	0.05	0.1	1.08	1.728	0.5
2	0.43	0	0.05	0.1	1.08	1.728	0.5
3	0.44	0	0.05	0.1	1.095	2.592	0.5
4	0.44	0	0.05	0.1	1.095	2.592	0.5
5	0.44	0	0.05	0.1	1.095	4.32	2.5
6	0.44	0	0.015	0.03	1.16	1.0368	-2
7	0.44	0	0.015	0.03	1.16	1.0368	-2
8	0.49	0	0.0107	0.0214	1.28	0.7828	-1.5
9	0.49	0	0.0107	0.0214	1.28	0.7828	-1.5
10	0.42	0	0.0191	0.0382	1.152	1.2796	-1.18

end_table

Input	OptRho	
table horizon	Rho	(kg.m-3)
1	1300.0	
2	1300.0	
3	1410.0	
4	1410.0	
5	1410.0	
6	1370.0	
7	1370.0	
8	1410.0	
9	1410.0	
10	1490.0	

end_table

0.002 ZPndMax (m)

* Soil evaporation parameters

Boesten	OptSolEvp	
1	FacEvpSol	(-)
0.79	CofRedEvp	(cm1/2)
0.01	PrcMinEvp	(m.d-1)

Table horizon LenDisLiq (m)

1	0.05
2	0.05
3	0.05
4	0.05
5	0.05
6	0.05
7	0.05
8	0.05
9	0.05
10	0.05

end_table

MillingtonQuirk	OptCofDifRel	
2	ExpDifLiqMilNom	(-)
0.6667	ExpDifLiqMilDen	(-)
2	ExpDifGasMilNom	(-)
0.6667	ExpDifGasMilDen	(-)
Constant	OptPnd	

*-----
* Section 3: Weather and irrigation section

```

* -----
chat-m      MeteoStation
Input      OptEvp
2.35       TemLboSta      (C)
No         OptIrr
No         IrrigationScheme
1.0        FacPrc (-)
1.0        FacEvp (-)
0.0        DifTem (C)
Laminar    OptTraRes
Daily      OptMetInp
No         OptRainfallEvents
No         OptSnow

* -----
* Section 4a: Lower boundary flux
* -----

-1200      ZGrwLevSta (cm)

FreeDrain   OptLbo
* -----
* Section 4b: Drainage/infiltration section
* -----

No          OptDra
No          OptSurDra
0           NumDraLev

* -----
* Section 5: Compound section
* -----

PXDb3 SubstanceName
table compounds
PXDb3
M2b3
M3b3
M5b3
M6b3
M4b3
M52b3
M1b3
end_table
Eq1Dom_Input      OptDT50_PXDb3
Eq1Dom_Input      OptDT50_M2b3
Eq1Dom_Input      OptDT50_M3b3
Eq1Dom_Input      OptDT50_M5b3
Eq1Dom_Input      OptDT50_M6b3
Eq1Dom_Input      OptDT50_M4b3
Eq1Dom_Input      OptDT50_M52b3
Eq1Dom_Input      OptDT50_M1b3
400.5             MolMas_PXDb3 (g.mol-1)
316.4             MolMas_M2b3 (g.mol-1)
332.4             MolMas_M3b3 (g.mol-1)
376.4             MolMas_M5b3 (g.mol-1)
360.4             MolMas_M6b3 (g.mol-1)
362.4             MolMas_M4b3 (g.mol-1)
360.3             MolMas_M52b3 (g.mol-1)
362.4             MolMas_M1b3 (g.mol-1)
table FraPrtDau (mol.mol-1)
0.883 PXDb3 -> M2b3
0.55 M2b3 -> M3b3
0.105 M2b3 -> M52b3
0.469 M3b3 -> M5b3
0.214 M3b3 -> M6b3
0.822 M3b3 -> M4b3
0.59 M3b3 -> M1b3
end_table
OptimumConditions OptCntLiqTraRef_PXDb3

```

```

0.216      DT50Ref_PXDb3 (d)
20.        TemRefTra_PXDb3 (C)
0.7        ExpliqTra_PXDb3 (-)
65.4       MolEntTra_PXDb3 (kJ.mol-1)
OptimumConditions OptCntLiqTraRef_M2b3
3.39       DT50Ref_M2b3 (d)
20.        TemRefTra_M2b3 (C)
0.7        ExpliqTra_M2b3 (-)
65.4       MolEntTra_M2b3 (kJ.mol-1)
OptimumConditions OptCntLiqTraRef_M3b3
39.6       DT50Ref_M3b3 (d)
20.        TemRefTra_M3b3 (C)
0.7        ExpliqTra_M3b3 (-)
65.4       MolEntTra_M3b3 (kJ.mol-1)
OptimumConditions OptCntLiqTraRef_M5b3
16.4       DT50Ref_M5b3 (d)
20.        TemRefTra_M5b3 (C)
0.7        ExpliqTra_M5b3 (-)
65.4       MolEntTra_M5b3 (kJ.mol-1)
OptimumConditions OptCntLiqTraRef_M6b3
72.1       DT50Ref_M6b3 (d)
20.        TemRefTra_M6b3 (C)
0.7        ExpliqTra_M6b3 (-)
65.4       MolEntTra_M6b3 (kJ.mol-1)
OptimumConditions OptCntLiqTraRef_M4b3
7.52       DT50Ref_M4b3 (d)
20.        TemRefTra_M4b3 (C)
0.7        ExpliqTra_M4b3 (-)
65.4       MolEntTra_M4b3 (kJ.mol-1)
OptimumConditions OptCntLiqTraRef_M52b3
8.43       DT50Ref_M52b3 (d)
20.        TemRefTra_M52b3 (C)
0.7        ExpliqTra_M52b3 (-)
65.4       MolEntTra_M52b3 (kJ.mol-1)
OptimumConditions OptCntLiqTraRef_M1b3
11.7       DT50Ref_M1b3 (d)
20.        TemRefTra_M1b3 (C)
0.7        ExpliqTra_M1b3 (-)
65.4       MolEntTra_M1b3 (kJ.mol-1)
table horizon FacZTra (-)
hor PXDb3 M2b3 M3b3 M5b3 M6b3 M4b3 M52b3 M1b3
1 1 1 1 1 1 1 1 1
2 1 1 1 1 1 1 1 1
3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
6 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3
7 0 0 0 0 0 0 0 0
8 0 0 0 0 0 0 0 0
9 0 0 0 0 0 0 0 0
10 0 0 0 0 0 0 0 0
end_table
table horizon FacZSor (-)
hor PXDb3 M2b3 M3b3 M5b3 M6b3 M4b3 M52b3 M1b3
1 -99 -99 -99 -99 -99 -99 -99 -99
2 -99 -99 -99 -99 -99 -99 -99 -99
3 -99 -99 -99 -99 -99 -99 -99 -99
4 -99 -99 -99 -99 -99 -99 -99 -99
5 -99 -99 -99 -99 -99 -99 -99 -99
6 -99 -99 -99 -99 -99 -99 -99 -99
7 -99 -99 -99 -99 -99 -99 -99 -99
8 -99 -99 -99 -99 -99 -99 -99 -99
9 -99 -99 -99 -99 -99 -99 -99 -99
10 -99 -99 -99 -99 -99 -99 -99 -99
end_table
0.         MolEntSor_PXDb3 (kJ.mol-1)
20.        TemRefSor_PXDb3 (C)
pH-independent OptCofFre_PXDb3
76.6       KomEq1_PXDb3 (L.kg-1)
7660.      KomEq1Max_PXDb3 (L.kg-1)
1.         ConLiqRef_PXDb3 (mg.L-1)

```

1.06	ExpFre_PXDb3 (-)
0.	MolEntSor_M2b3 (kJ.mol-1)
20.	TemRefSor_M2b3 (C)
pH-independent	OptCofFre_M2b3
0.893	KomEqL_M2b3 (L.kg-1)
89.3	KomEqLMax_M2b3 (L.kg-1)
1.	ConLiqRef_M2b3 (mg.L-1)
1.01	ExpFre_M2b3 (-)
0.	MolEntSor_M3b3 (kJ.mol-1)
20.	TemRefSor_M3b3 (C)
pH-independent	OptCofFre_M3b3
18.6	KomEqL_M3b3 (L.kg-1)
1860.	KomEqLMax_M3b3 (L.kg-1)
1.	ConLiqRef_M3b3 (mg.L-1)
0.96	ExpFre_M3b3 (-)
0.	MolEntSor_M5b3 (kJ.mol-1)
20.	TemRefSor_M5b3 (C)
pH-independent	OptCofFre_M5b3
1.81	KomEqL_M5b3 (L.kg-1)
181.	KomEqLMax_M5b3 (L.kg-1)
1.	ConLiqRef_M5b3 (mg.L-1)
0.9	ExpFre_M5b3 (-)
0.	MolEntSor_M6b3 (kJ.mol-1)
20.	TemRefSor_M6b3 (C)
pH-independent	OptCofFre_M6b3
7.83	KomEqL_M6b3 (L.kg-1)
783.	KomEqLMax_M6b3 (L.kg-1)
1.	ConLiqRef_M6b3 (mg.L-1)
0.92	ExpFre_M6b3 (-)
0.	MolEntSor_M4b3 (kJ.mol-1)
20.	TemRefSor_M4b3 (C)
pH-independent	OptCofFre_M4b3
4.62	KomEqL_M4b3 (L.kg-1)
462.	KomEqLMax_M4b3 (L.kg-1)
1.	ConLiqRef_M4b3 (mg.L-1)
0.92	ExpFre_M4b3 (-)
0.	MolEntSor_M52b3 (kJ.mol-1)
20.	TemRefSor_M52b3 (C)
pH-independent	OptCofFre_M52b3
47.1	KomEqL_M52b3 (L.kg-1)
4710.	KomEqLMax_M52b3 (L.kg-1)
1.	ConLiqRef_M52b3 (mg.L-1)
0.89	ExpFre_M52b3 (-)
0.	MolEntSor_M1b3 (kJ.mol-1)
20.	TemRefSor_M1b3 (C)
pH-independent	OptCofFre_M1b3
3.31	KomEqL_M1b3 (L.kg-1)
331.	KomEqLMax_M1b3 (L.kg-1)
1.	ConLiqRef_M1b3 (mg.L-1)
0.96	ExpFre_M1b3 (-)
0.	PreVapRef_PXDb3 (Pa)
20.	TemRefVap_PXDb3 (C)
200.	SlbWatRef_PXDb3 (mg.L-1)
25.	TemRefSlb_PXDb3 (C)
27.	MolEntSlb_PXDb3 (kJ.mol-1)
95.	MolEntVap_PXDb3 (kJ.mol-1)
0.	PreVapRef_M2b3 (Pa)
20.	TemRefVap_M2b3 (C)
380000.	SlbWatRef_M2b3 (mg.L-1)
25.	TemRefSlb_M2b3 (C)
27.	MolEntSlb_M2b3 (kJ.mol-1)
95.	MolEntVap_M2b3 (kJ.mol-1)
0.	PreVapRef_M3b3 (Pa)
20.	TemRefVap_M3b3 (C)
370.	SlbWatRef_M3b3 (mg.L-1)
25.	TemRefSlb_M3b3 (C)
27.	MolEntSlb_M3b3 (kJ.mol-1)
95.	MolEntVap_M3b3 (kJ.mol-1)
0.	PreVapRef_M5b3 (Pa)
20.	TemRefVap_M5b3 (C)
1000.	SlbWatRef_M5b3 (mg.L-1)

25.	TemRefSlb_M5b3 (C)
27.	MolEntSlb_M5b3 (kJ.mol-1)
95.	MolEntVap_M5b3 (kJ.mol-1)
0.	PreVapRef_M6b3 (Pa)
20.	TemRefVap_M6b3 (C)
1000.	SlbWatRef_M6b3 (mg.L-1)
25.	TemRefSlb_M6b3 (C)
27.	MolEntSlb_M6b3 (kJ.mol-1)
95.	MolEntVap_M6b3 (kJ.mol-1)
0.	PreVapRef_M4b3 (Pa)
20.	TemRefVap_M4b3 (C)
1000.	SlbWatRef_M4b3 (mg.L-1)
25.	TemRefSlb_M4b3 (C)
27.	MolEntSlb_M4b3 (kJ.mol-1)
95.	MolEntVap_M4b3 (kJ.mol-1)
0.	PreVapRef_M52b3 (Pa)
20.	TemRefVap_M52b3 (C)
1000.	SlbWatRef_M52b3 (mg.L-1)
25.	TemRefSlb_M52b3 (C)
27.	MolEntSlb_M52b3 (kJ.mol-1)
95.	MolEntVap_M52b3 (kJ.mol-1)
0.	PreVapRef_M1b3 (Pa)
20.	TemRefVap_M1b3 (C)
1000.	SlbWatRef_M1b3 (mg.L-1)
25.	TemRefSlb_M1b3 (C)
27.	MolEntSlb_M1b3 (kJ.mol-1)
95.	MolEntVap_M1b3 (kJ.mol-1)
0.	CofDesRat_PXDb3 (d-1)
0.	FacSorNeqEq1_PXDb3 (-)
0.	CofDesRat_M2b3 (d-1)
0.	FacSorNeqEq1_M2b3 (-)
0.	CofDesRat_M3b3 (d-1)
0.	FacSorNeqEq1_M3b3 (-)
0.	CofDesRat_M5b3 (d-1)
0.	FacSorNeqEq1_M5b3 (-)
0.	CofDesRat_M6b3 (d-1)
0.	FacSorNeqEq1_M6b3 (-)
0.	CofDesRat_M4b3 (d-1)
0.	FacSorNeqEq1_M4b3 (-)
0.	CofDesRat_M52b3 (d-1)
0.	FacSorNeqEq1_M52b3 (-)
0.	CofDesRat_M1b3 (d-1)
0.	FacSorNeqEq1_M1b3 (-)
0.	FacUpt_PXDb3 (-)
0.	FacUpt_M2b3 (-)
0.784	FacUpt_M3b3 (-)
0.	FacUpt_M5b3 (-)
0.	FacUpt_M6b3 (-)
0.	FacUpt_M4b3 (-)
0.	FacUpt_M52b3 (-)
0.	FacUpt_M1b3 (-)
0.01	ThiAirBouLay (m)
Lumped	OptDspCrp_PXDb3
1000000.	DT50DspCrp_PXDb3 (d)
0.0001	FacWasCrp_PXDb3 (m-1)
Lumped	OptDspCrp_M2b3
1000000.	DT50DspCrp_M2b3 (d)
0.0001	FacWasCrp_M2b3 (m-1)
Lumped	OptDspCrp_M3b3
1000000.	DT50DspCrp_M3b3 (d)
0.0001	FacWasCrp_M3b3 (m-1)
Lumped	OptDspCrp_M5b3
1000000.	DT50DspCrp_M5b3 (d)
0.0001	FacWasCrp_M5b3 (m-1)
Lumped	OptDspCrp_M6b3
1000000.	DT50DspCrp_M6b3 (d)
0.0001	FacWasCrp_M6b3 (m-1)
Lumped	OptDspCrp_M4b3
1000000.	DT50DspCrp_M4b3 (d)
0.0001	FacWasCrp_M4b3 (m-1)
Lumped	OptDspCrp_M52b3

```

1000000.      DT50DspCrp_M52b3 (d)
0.0001        FacWasCrp_M52b3 (m-1)
Lumped        OptDspCrp_M1b3
1000000.      DT50DspCrp_M1b3 (d)
0.0001        FacWasCrp_M1b3 (m-1)
20.          TemRefDif_PXDb3 (C)
4.3E-5        CofDifWatRef_PXDb3 (m2.d-1)
0.43          CofDifAirRef_PXDb3 (m2.d-1)
20.          TemRefDif_M2b3 (C)
4.3E-5        CofDifWatRef_M2b3 (m2.d-1)
0.43          CofDifAirRef_M2b3 (m2.d-1)
20.          TemRefDif_M3b3 (C)
4.3E-5        CofDifWatRef_M3b3 (m2.d-1)
0.43          CofDifAirRef_M3b3 (m2.d-1)
20.          TemRefDif_M5b3 (C)
4.3E-5        CofDifWatRef_M5b3 (m2.d-1)
0.43          CofDifAirRef_M5b3 (m2.d-1)
20.          TemRefDif_M6b3 (C)
4.3E-5        CofDifWatRef_M6b3 (m2.d-1)
0.43          CofDifAirRef_M6b3 (m2.d-1)
20.          TemRefDif_M4b3 (C)
4.3E-5        CofDifWatRef_M4b3 (m2.d-1)
0.43          CofDifAirRef_M4b3 (m2.d-1)
20.          TemRefDif_M52b3 (C)
4.3E-5        CofDifWatRef_M52b3 (m2.d-1)
0.43          CofDifAirRef_M52b3 (m2.d-1)
20.          TemRefDif_M1b3 (C)
4.3E-5        CofDifWatRef_M1b3 (m2.d-1)
0.43          CofDifAirRef_M1b3 (m2.d-1)
*
* -----
* Section 6: Management section
* -----

PXD-SCereals-BBCH21-45app-CHAT ApplicationScheme
1.0           ZTgt (m)
0.0           ZEADTop (m)
0.2           ZEADBot (m)
1             DelTimEvt (a)
table Applications
31-Mar-1901 AppSolSur 0.036
end_table
table TillageDates
end_table
table interpolate CntSysEq1 (mg.kg-1)
0.0           0.0
50.0          0.0
end_table
table interpolate CntSysNeq (mg.kg-1)
0.0           0.0
50.0          0.0
end_table
No DepositionScheme
table FlmDep (kg.ha-1.d-1)
end_table
*
* -----
* Section 7: Crop section
* -----

CHAT-SCEREALS CropCalendar
Yes           RepeatCrops
Fixed         OptLenCrp
LAI          OptCov

table Crops
10-Mar        20-Jul        scereals1
end_table
table CrpPar_scereals1
0.0           0.0           1.05          0.0           0.0
0.695         5.0           1.05          0.6           0.0
0.702         5.0           1.1           0.6           0.0
0.847         5.0           1.1           0.6           0.0

```

```

0.855  5.0    0.7    0.6    0.0
1.0    5.0    0.7    0.6    0.0
end_table
table RootDensity_scereals1
0.0    1.0
1.0    1.0
end_table
0.0          HLim1_scereals1 (cm)
-1.0         HLim2_scereals1 (cm)
-500.0       HLim3U_scereals1 (cm)
-900.0       HLim3L_scereals1 (cm)
-16000.0     HLim4_scereals1 (cm)
70.0         RstEvpCrp_scereals1 (s.m-1)
0.39         CofExtDif_scereals1 (-)
1.0          CofExtDir_scereals1 (-)
0.0001       CofIntCrp_scereals1 (cm)
0.0          TemSumSta_scereals1 (C)
0.0          TemSumEmgAnt_scereals1 (C)
0.0          TemSumAntMat_scereals1 (C)
0.2          ZTensiometer_scereals1 (m)
0.0          FraCovStm_scereals1 (-)
-100.0       PreHeaIrrSta_scereals1 (cm)
15.0         IrgThreshold_scereals1 (mm)
*
* -----
* Section 8: Output control
* -----
*

DaysFromSta   DateFormat
No             OptDelOutFiles
Yes           PrintCumulatives
Yes           LeachingReport
80.0          TargetPercentile (%)
No            DrainageReport
No            AirReport
No            SoilReport
0.2           ThiLayPer (m)
table VerticalProfiles
end_table
G12.4         RealFormat
table OutputDepths (m)
0.05
0.1
0.2
0.3
0.4
0.5
0.75
1.0
2.0
end_table
Yes           print_AmaAppCrp
Yes           print_AmaAppSol
Yes           print_AmaCrp
Yes           print_AmaDra_1
Yes           print_AmaDra_2
Yes           print_AmaDra_3
Yes           print_AmaDra_4
Yes           print_AmaDra_5
Yes           print_AmaEqLTgt
Yes           print_AmaEqLPro
Yes           print_AmaEqLTil
Yes           print_AmaErrMic
Yes           print_AmaForPro
Yes           print_AmaHarCrp
Yes           print_AmaNeqTgt
Yes           print_AmaNeqPro
Yes           print_AmaNeqTil
Yes           print_AmaSysTgt
Yes           print_AmaSysPro
Yes           print_AmaSysTil
Yes           print_AmaTraPro

```

Yes	print_AmaUptPro
Yes	print_AmaDspCrp
Yes	print_AmaWasCrp
Yes	print_ConGas
Yes	print_ConLiq
Yes	print_ConLiqLbo
Yes	print_ConLiqSatAvg
Yes	print_ConSys
Yes	print_ConSysEq1
Yes	print_ConSysNeq
Yes	print_DelTimPr1
Yes	print_Eps
Yes	print_FacCrpEvp
Yes	print_FlmDepCrp
Yes	print_FlmGas
Yes	print_FlmGasVol
Yes	print_FlmLiq
Yes	print_FlmLiqInfSys
Yes	print_FlmLiqLbo
Yes	print_FlmSys
Yes	print_FlvLiq
Yes	print_FlvLiqDra_3
Yes	print_FlvLiqDra_4
Yes	print_FlvLiqDra_5
Yes	print_FlvLiqEvpIntIrr
Yes	print_FlvLiqEvpIntPrc
Yes	print_FlvLiqEvpSol
Yes	print_FlvLiqEvpSolPot
Yes	print_FlvLiqIrr
Yes	print_FlvLiqLbo
Yes	print_FlvLiqGrw
Yes	print_FlvLiqTrp
Yes	print_FlvLiqTrpPot
Yes	print_FraCovCrp
Yes	print_GrwLev
Yes	print_LAI
Yes	print_PreHea
Yes	print_Theta
Yes	print_StoCap
Yes	print_FlvLiqGrwSur
Yes	print_VvrLiqDra
Yes	print_VvrLiqUpt
Yes	print_ZRoot
Yes	print_FlvLiqDra_1
Yes	print_FlvLiqDra_2
Yes	print_FlvLiqPrc
Yes	print_Tem
Yes	print_ConLiqDra_1
Yes	print_ConLiqDra_2
Yes	print_ConLiqDra_3
Yes	print_ConLiqDra_4
Yes	print_ConLiqDra_5
Yes	print_ConLiqDra
Yes	print_ZPnd
Yes	print_AvoLiqSol
Yes	print_ConGas_VPrf
Yes	print_ConLiq_VPrf
Yes	print_ConSys_VPrf
Yes	print_ConSysEq1_VPrf
Yes	print_ConSysNeq_VPrf
Yes	print_PreHea_VPrf
Yes	print_Tem_VPrf
Yes	print_Theta_VPrf
Yes	print_AvoLiqErr
Yes	print_FlvLiqInf
Yes	print_RstAirLam
Yes	print_AmaRunOff
Yes	print_AmaSolSur
Yes	print_VelWnd
Yes	print_TemAir
Yes	print_FlvLiqCanDrp

Yes print_ConLiqPer
Yes print_CntSysPer
Yes print_ConLiqTWA2D
Yes print_ConLiqTWA3D
Yes print_ConLiqTWA4D
Yes print_CntSysTWA2D
Yes print_CntSysTWA3D
Yes print_CntSysTWA4D
Yes print_ConLiqTWA1D
Yes print_CntSysTWA1D
Yes print_ConLiqPer
Yes print_CntSysPer

*-----
* End of FOCUSPEARL 5.5.5 input file
*-----

Listing 6: Tier 1b – Representative *.sum report file for PEARL v5.5.5 – 45 g/ha to Spring Cereals at BBCH 21 for the Châteaudun scenario

```

* -----
* PEARL REPORT: Header
* Results from the PEARL model (c) WENR, PBL and RIVM
* PEARL kernel version      : 3.2.20
* SWAP kernel version       : swap3237
* PEARL created on          : 14-Sep-2020
*
* PEARL was called from      : FOCUSPEARL, version 5.5.5
* Working directory         :
D:\Documents\WorkProjects\MartinProjects\PinoxadenModelling\GW\PEARLMACRO_GW\FOCUSPEARL\589
* Run ID                    : 589
* Input file generated on    : 18-11-2022
* -----
*
* ExposureType              : Groundwater
* Scenario data subset      : FOCUS Groundwater version 5
* Location                  : CHATEAUDUN
* Meteo station             : chat-m
* Soil type                 : CHAT-S_Soil
* Crop calendar             : CHAT-SCEREALS
* Substance                 : PXDb3
* Application scheme        : PXD-SCereals-BBCH21-45app-CHAT
* Deposition scheme         : No
* Irrigation scheme         : No
*
* End of PEARL REPORT: Header
* -----
*
* Key to the annual water balances in the soil system
* -----
* DelLiq      Net storage change of water in profile      (m.a-1)
* Prc         Precipitation                               (m.a-1)
* Irr         Irrigation                                  (m.a-1)
* LeaLbo      Seepage at the lower boundary              (m.a-1)
* LeaGrw      Groundwater recharge                       (m.a-1)
* LeaTgt      Flux at lower boundary of the target layer (m.a-1)
* EvpInt      Evaporation of intercepted water           (m.a-1)
* SolAct      Actual soil evaporation                    (m.a-1)
* TrpAct      Actual transpiration                       (m.a-1)
* Dra         Total discharge to drains and channels      (m.a-1)
* Dra_1      Lateral discharge to primary system         (m.a-1)
* Dra_2      Lateral discharge to secondary system       (m.a-1)
* Dra_3      Lateral discharge to tertiary system        (m.a-1)
* Dra_4      Lateral discharge to tile drains            (m.a-1)
* Dra_5      Lateral discharge to surface drainage system (m.a-1)
* RunOff      Run-off                                    (m.a-1)
* EvpPnd      Evaporation of ponded water                (m.a-1)
* CanDrp      Canopy drip                                (m.a-1)
* SolPot      Potential soil evaporation                 (m.a-1)
* TrpPot      Potential transpiration                    (m.a-1)
*
* Key to the annual mass balance of substance at the crop
* -----
* AmaAppCrp   Areic mass applied to the crop canopy      (kg.ha-1.a-1)
* DelAmaCrp   Change of areic mass at the crop canopy     (kg.ha-1.a-1)
* AmaVol      Areic mass volatilised from the crop canopy (kg.ha-1.a-1)
* AmaPen      Areic mass penetrated into the plant tissue (kg.ha-1.a-1)
* AmaTra      Areic mass transformed at the crop canopy   (kg.ha-1.a-1)
* AmaDep      Areic mass deposited at the crop canopy     (kg.ha-1.a-1)
* AmaDsp      Areic mass dissipated at the crop canopy    (kg.ha-1.a-1)
* AmaWas      Areic mass washed from the crop canopy      (kg.ha-1.a-1)
* AmaHar      Areic mass removed by harvesting            (kg.ha-1.a-1)
*
* Key to the annual mass balance of substance in the soil system
* -----
* AmaAppSol    Areic mass applied to the soil system      (kg.ha-1.a-1)

```

```

* DelAma      Change of mass in the soil system          (kg.ha-1.a-1)
* DelAmaEq1   Change of mass in the equilibrium domain   (kg.ha-1.a-1)
* DelAmaNeq   Change of mass in the non-equilibrium domain (kg.ha-1.a-1)
* AmaTra      Areic mass transformed in the soil system  (kg.ha-1.a-1)
* AmaFor      Areic mass formed in the soil system       (kg.ha-1.a-1)
* AmaUpt      Areic mass taken-up from the soil system   (kg.ha-1.a-1)
* AmaDra      Areic mass drained from the soil system    (kg.ha-1.a-1)
* AmaDra_1    Areic mass drained to the primary system   (kg.ha-1.a-1)
* AmaDra_2    Areic mass drained to the secunary system  (kg.ha-1.a-1)
* AmaDra_3    Areic mass drained to the tertiary system  (kg.ha-1.a-1)
* AmaDra_4    Areic mass drained to tube drains         (kg.ha-1.a-1)
* AmaDra_5    Areic mass drained to surface drain system (kg.ha-1.a-1)
* AmaDep      Areic mass deposited at the soil surface   (kg.ha-1.a-1)
* AmaVol      Areic mass volatized from the soil surface (kg.ha-1.a-1)
* AmaLea      Areic mass leached from the soil system    (kg.ha-1.a-1)
* AmaLeaAqf   Areic mass leached to the deep aquifer     (kg.ha-1.a-1)

```

* Key to the output per summary period

```

* -----
* AmaLeaTgt   Areic mass leached from the target layer   (kg.ha-1)
* FlvLeaTgt   Volume of water leached from the target layer (m3.m-2)
* ConLeaTgt    Concentration in water leached from the target layer (ug.L-1)
* -----

```

* Annual water balance of the target layer

```

* -----
* -----
* yr Identifier  DelLiq      Prc      Irr      LeaLbo      LeaTgt      EvpInt      SolAct      TrpAct
Dra  Dra_1  Dra_2  Dra_3  Dra_4  Dra_5  Run  EvpPnd  CanDrp  SolPot  TrpPot
1901 BalWatTgt      0.0463  0.5227  0.0000  0.0216  0.0615  0.0000  0.2500  0.1649
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.1178  0.5515
0.3247
1902 BalWatTgt      0.0088  0.4133  0.0000  0.0316  0.0529  0.0000  0.1952  0.1564
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.1077  0.5561
0.2931
1903 BalWatTgt     -0.0207  0.5070  0.0000  0.0582  0.1082  0.0000  0.2683  0.1512
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.1065  0.4763
0.2535
1904 BalWatTgt      0.0101  0.5926  0.0000  0.0611  0.1186  0.0000  0.2503  0.2136
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.1801  0.4837
0.2838
1905 BalWatTgt      0.0206  0.5541  0.0000  0.1151  0.0876  0.0000  0.2407  0.2052
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.1460  0.4757
0.2713
1906 BalWatTgt     -0.0076  0.6045  0.0000  0.1340  0.1354  0.0000  0.3003  0.1763
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.1239  0.4894
0.3087
1907 BalWatTgt     -0.0058  0.7325  0.0000  0.1411  0.2432  0.0000  0.2747  0.2205
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.1940  0.4639
0.2746
1908 BalWatTgt      0.0108  0.4733  0.0000  0.1738  0.1108  0.0000  0.2295  0.1221
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0888  0.5439
0.3822
1909 BalWatTgt     -0.0006  0.7586  0.0000  0.2004  0.2123  0.0000  0.3024  0.2445
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.2278  0.4553
0.2513
1910 BalWatTgt      0.0261  0.7063  0.0000  0.2579  0.2192  0.0000  0.2564  0.2046
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.1568  0.4688
0.2460
1911 BalWatTgt     -0.0205  0.7866  0.0000  0.2351  0.3081  0.0000  0.2768  0.2223
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.1566  0.4517
0.2671
1912 BalWatTgt      0.0012  0.6903  0.0000  0.2545  0.2359  0.0000  0.2696  0.1835
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.1986  0.4740
0.2543
1913 BalWatTgt      0.0221  0.8047  0.0000  0.2355  0.2425  0.0000  0.3118  0.2283
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.2042  0.4790
0.2519

```

1914 BalWatTgt	-0.0277	0.7277	0.0000	0.2072	0.2687	0.0000	0.3105	0.1762
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1116	0.5007
0.3162								
1915 BalWatTgt	-0.0191	0.6683	0.0000	0.2928	0.1621	0.0000	0.3187	0.2066
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1853	0.5060
0.2758								
1916 BalWatTgt	0.0191	0.8461	0.0000	0.1877	0.3198	0.0000	0.2882	0.2190
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1804	0.4886
0.2926								
1917 BalWatTgt	-0.0082	0.5936	0.0000	0.2556	0.0977	0.0000	0.2578	0.2463
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2137	0.5143
0.2761								
1918 BalWatTgt	0.0106	0.6340	0.0000	0.1249	0.1563	0.0000	0.2810	0.1860
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1348	0.4814
0.2931								
1919 BalWatTgt	-0.0035	0.6577	0.0000	0.1237	0.2103	0.0000	0.2609	0.1900
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1944	0.4404
0.2655								
1920 BalWatTgt	-0.0156	0.6951	0.0000	0.3009	0.2334	0.0000	0.2525	0.2249
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1920	0.4525
0.2562								
1921 BalWatTgt	0.0061	0.5227	0.0000	0.1273	0.0861	0.0000	0.2510	0.1795
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1178	0.5515
0.3247								
1922 BalWatTgt	0.0061	0.4133	0.0000	0.0786	0.0480	0.0000	0.1954	0.1637
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1077	0.5561
0.2931								
1923 BalWatTgt	-0.0229	0.5070	0.0000	0.0840	0.1077	0.0000	0.2685	0.1537
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1065	0.4763
0.2535								
1924 BalWatTgt	0.0092	0.5926	0.0000	0.0688	0.1187	0.0000	0.2505	0.2143
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1801	0.4837
0.2838								
1925 BalWatTgt	0.0203	0.5541	0.0000	0.1193	0.0876	0.0000	0.2407	0.2053
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1460	0.4757
0.2713								
1926 BalWatTgt	-0.0076	0.6045	0.0000	0.1347	0.1354	0.0000	0.3003	0.1763
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1239	0.4894
0.3087								

* Annual water balance of the soil profile

* yr	Identifier	Dra_1	Dra_2	Delliq	Prc	Irr	LeaLbo	LeaGrw	EvpInt	SolAct	TrpAct
				Dra_3	Dra_4	Dra_5	Run	EvpPnd	CanDrp	SolPot	TrpPot
1901	BalWatSol	0.0862	0.5227	0.0000	0.0216	0.0216	0.0000	0.2500	0.1649		
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1178	0.5515		
0.3247											
1902	BalWatSol	0.0301	0.4133	0.0000	0.0316	0.0316	0.0000	0.1952	0.1564		
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1077	0.5561		
0.2931											
1903	BalWatSol	0.0293	0.5070	0.0000	0.0582	0.0582	0.0000	0.2683	0.1512		
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1065	0.4763		
0.2535											
1904	BalWatSol	0.0676	0.5926	0.0000	0.0611	0.0611	0.0000	0.2503	0.2136		
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1801	0.4837		
0.2838											
1905	BalWatSol	-0.0069	0.5541	0.0000	0.1151	0.1151	0.0000	0.2407	0.2052		
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1460	0.4757		
0.2713											
1906	BalWatSol	-0.0061	0.6045	0.0000	0.1340	0.1340	0.0000	0.3003	0.1763		
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1239	0.4894		
0.3087											
1907	BalWatSol	0.0962	0.7325	0.0000	0.1411	0.1411	0.0000	0.2747	0.2205		
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1940	0.4639		
0.2746											
1908	BalWatSol	-0.0522	0.4733	0.0000	0.1738	0.1738	0.0000	0.2295	0.1221		
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0888	0.5439		
0.3822											

1909 BalWatSol	0.0113	0.7586	0.0000	0.2004	0.2004	0.0000	0.3024	0.2445
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2278	0.4553
0.2513								
1910 BalWatSol	-0.0126	0.7063	0.0000	0.2579	0.2579	0.0000	0.2564	0.2046
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1568	0.4688
0.2460								
1911 BalWatSol	0.0525	0.7866	0.0000	0.2351	0.2351	0.0000	0.2768	0.2223
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1566	0.4517
0.2671								
1912 BalWatSol	-0.0173	0.6903	0.0000	0.2545	0.2545	0.0000	0.2696	0.1835
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1986	0.4740
0.2543								
1913 BalWatSol	0.0290	0.8047	0.0000	0.2355	0.2355	0.0000	0.3118	0.2283
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2042	0.4790
0.2519								
1914 BalWatSol	0.0338	0.7277	0.0000	0.2072	0.2072	0.0000	0.3105	0.1762
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1116	0.5007
0.3162								
1915 BalWatSol	-0.1498	0.6683	0.0000	0.2928	0.2928	0.0000	0.3187	0.2066
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1853	0.5060
0.2758								
1916 BalWatSol	0.1512	0.8461	0.0000	0.1877	0.1877	0.0000	0.2882	0.2190
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1804	0.4886
0.2926								
1917 BalWatSol	-0.1661	0.5936	0.0000	0.2556	0.2556	0.0000	0.2578	0.2463
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2137	0.5143
0.2761								
1918 BalWatSol	0.0420	0.6340	0.0000	0.1249	0.1249	0.0000	0.2810	0.1860
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1348	0.4814
0.2931								
1919 BalWatSol	0.0831	0.6577	0.0000	0.1237	0.1237	0.0000	0.2609	0.1900
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1944	0.4404
0.2655								
1920 BalWatSol	-0.0832	0.6951	0.0000	0.3009	0.3009	0.0000	0.2525	0.2249
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1920	0.4525
0.2562								
1921 BalWatSol	-0.0351	0.5227	0.0000	0.1273	0.1273	0.0000	0.2510	0.1795
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1178	0.5515
0.3247								
1922 BalWatSol	-0.0244	0.4133	0.0000	0.0786	0.0786	0.0000	0.1954	0.1637
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1077	0.5561
0.2931								
1923 BalWatSol	0.0008	0.5070	0.0000	0.0840	0.0840	0.0000	0.2685	0.1537
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1065	0.4763
0.2535								
1924 BalWatSol	0.0591	0.5926	0.0000	0.0688	0.0688	0.0000	0.2505	0.2143
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1801	0.4837
0.2838								
1925 BalWatSol	-0.0113	0.5541	0.0000	0.1193	0.1193	0.0000	0.2407	0.2053
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1460	0.4757
0.2713								
1926 BalWatSol	-0.0068	0.6045	0.0000	0.1347	0.1347	0.0000	0.3003	0.1763
0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1239	0.4894
0.3087								

* Annual mass balance of substance at the crop canopy

* yr	Identifier	AmaApp	DelAmaCrp	AmaDep	AmaDsp	AmaWas	AmaHar
1901	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1902	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1903	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1904	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1905	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1906	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1907	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1908	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1909	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1910	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1911	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1912	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1913	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

1914	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1915	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1916	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1917	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1918	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1919	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1920	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1921	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1922	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1923	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1924	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1925	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1926	BalCrp_PXDb3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

* Annual mass balance (kg.ha-1) of compound PXDb3 in the target layer

* -----

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	ConLeaTgt					
1901	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1902	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1903	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1904	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1905	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1906	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1907	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1908	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1909	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1910	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1911	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1912	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1913	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1914	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1915	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8868E-18	0.5472E-15					
1916	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					

1917	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1918	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1919	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1920	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1921	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1922	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1923	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1924	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1925	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1926	BalTgt_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					

* Annual mass balance (kg.ha-1) of compound M2b3 in the target layer

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	ConLeaTgt					
1901	BalTgt_M2b3	0.000	0.4921E-09	0.4921E-09	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3902E-11	0.6348E-08					
1902	BalTgt_M2b3	0.000	-0.4817E-09	-0.4817E-09	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5909E-11	0.1117E-07					
1903	BalTgt_M2b3	0.000	0.6150E-11	0.6150E-11	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4067E-12	0.3760E-09					
1904	BalTgt_M2b3	0.000	0.6909E-09	0.6909E-09	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4513E-09	0.3804E-06					
1905	BalTgt_M2b3	0.000	0.2480E-08	0.2480E-08	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1556E-09	0.1777E-06					
1906	BalTgt_M2b3	0.000	-0.3115E-08	-0.3115E-08	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5079E-09	0.3750E-06					
1907	BalTgt_M2b3	0.000	0.2612E-08	0.2612E-08	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8453E-08	0.3476E-05					
1908	BalTgt_M2b3	0.000	-0.2671E-08	-0.2671E-08	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.8807E-09	0.000					
1909	BalTgt_M2b3	0.000	0.4343E-08	0.4343E-08	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1904E-08	0.8971E-06					
1910	BalTgt_M2b3	0.000	-0.1785E-08	-0.1785E-08	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1974E-08	0.9005E-06					
1911	BalTgt_M2b3	0.000	-0.1437E-08	-0.1437E-08	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1348E-08	0.4375E-06					

1912	BalTgt_M2b3	0.000	-0.6665E-09	-0.6665E-09	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7387E-09	0.3132E-06					
1913	BalTgt_M2b3	0.000	0.3576E-09	0.3576E-09	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6991E-09	0.2882E-06					
1914	BalTgt_M2b3	0.000	-0.8215E-09	-0.8215E-09	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2210E-09	0.8226E-07					
1915	BalTgt_M2b3	0.000	0.1912E-07	0.1912E-07	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7577E-07	0.4675E-04					
1916	BalTgt_M2b3	0.000	-0.1655E-07	-0.1655E-07	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3938E-07	0.1231E-04					
1917	BalTgt_M2b3	0.000	0.9469E-08	0.9469E-08	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1323E-08	0.1355E-05					
1918	BalTgt_M2b3	0.000	-0.5385E-08	-0.5385E-08	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2639E-08	0.1688E-05					
1919	BalTgt_M2b3	0.000	-0.6150E-08	-0.6150E-08	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2270E-08	0.1079E-05					
1920	BalTgt_M2b3	0.000	0.5123E-09	0.5123E-09	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4534E-09	0.1943E-06					
1921	BalTgt_M2b3	0.000	-0.7298E-09	-0.7298E-09	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5355E-10	0.6221E-07					
1922	BalTgt_M2b3	0.000	-0.2800E-09	-0.2800E-09	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.1758E-10	0.000					
1923	BalTgt_M2b3	0.000	0.5920E-11	0.5920E-11	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.2331E-11	0.000					
1924	BalTgt_M2b3	0.000	0.6810E-09	0.6810E-09	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4431E-09	0.3733E-06					
1925	BalTgt_M2b3	0.000	0.2481E-08	0.2481E-08	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1553E-09	0.1772E-06					
1926	BalTgt_M2b3	0.000	-0.3105E-08	-0.3105E-08	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5063E-09	0.3739E-06					

* Annual mass balance (kg.ha-1) of compound M3b3 in the target layer

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	ConLeaTgt					
1901	BalTgt_M3b3	0.000	0.9873E-03	0.9873E-03	0.000	0.1120E-01	0.1451E-01
0.2327E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1803E-09	0.2933E-06					
1902	BalTgt_M3b3	0.000	-0.1889E-04	-0.1889E-04	0.000	0.1194E-01	0.1451E-01
0.2588E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3739E-06	0.7066E-03					
1903	BalTgt_M3b3	0.000	0.1169E-03	0.1169E-03	0.000	0.1201E-01	0.1451E-01
0.2380E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6369E-05	0.5888E-02					
1904	BalTgt_M3b3	0.000	0.2098E-03	0.2098E-03	0.000	0.1129E-01	0.1451E-01
0.3003E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1142E-04	0.9628E-02					
1905	BalTgt_M3b3	0.000	0.3214E-03	0.3214E-03	0.000	0.1122E-01	0.1451E-01
0.2945E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2852E-04	0.3257E-01					
1906	BalTgt_M3b3	0.000	-0.5325E-03	-0.5325E-03	0.000	0.1235E-01	0.1451E-01
0.2624E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6496E-04	0.4797E-01					

1907	BalTgt_M3b3	0.000	0.4430E-03	0.4430E-03	0.000	0.1086E-01	0.1451E-01
0.3091E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1182E-03	0.4861E-01					
1908	BalTgt_M3b3	0.000	-0.3644E-03	-0.3644E-03	0.000	0.1353E-01	0.1451E-01
0.1251E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9188E-04	0.8291E-01					
1909	BalTgt_M3b3	0.000	0.5487E-03	0.5487E-03	0.000	0.1077E-01	0.1451E-01
0.3057E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1332E-03	0.6276E-01					
1910	BalTgt_M3b3	0.000	0.4865E-04	0.4865E-04	0.000	0.1134E-01	0.1451E-01
0.2868E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2522E-03	0.1151					
1911	BalTgt_M3b3	0.000	-0.2170E-03	-0.2170E-03	0.000	0.1141E-01	0.1451E-01
0.2978E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3397E-03	0.1102					
1912	BalTgt_M3b3	0.000	0.4903E-05	0.4903E-05	0.000	0.1139E-01	0.1451E-01
0.2858E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2611E-03	0.1107					
1913	BalTgt_M3b3	0.000	-0.1304E-03	-0.1304E-03	0.000	0.1144E-01	0.1451E-01
0.2983E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2206E-03	0.9097E-01					
1914	BalTgt_M3b3	0.000	-0.3628E-03	-0.3628E-03	0.000	0.1189E-01	0.1451E-01
0.2768E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2203E-03	0.8196E-01					
1915	BalTgt_M3b3	0.000	0.8922E-03	0.8922E-03	0.000	0.1079E-01	0.1451E-01
0.2682E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1424E-03	0.8784E-01					
1916	BalTgt_M3b3	0.000	-0.1493E-03	-0.1493E-03	0.000	0.1164E-01	0.1451E-01
0.2570E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4470E-03	0.1398					
1917	BalTgt_M3b3	0.000	0.2601E-03	0.2601E-03	0.000	0.1073E-01	0.1451E-01
0.3289E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2340E-03	0.2396					
1918	BalTgt_M3b3	0.000	-0.1437E-03	-0.1437E-03	0.000	0.1176E-01	0.1451E-01
0.2698E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1965E-03	0.1257					
1919	BalTgt_M3b3	0.000	-0.2911E-03	-0.2911E-03	0.000	0.1201E-01	0.1451E-01
0.2594E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1926E-03	0.9159E-01					
1920	BalTgt_M3b3	0.000	-0.1167E-03	-0.1167E-03	0.000	0.1147E-01	0.1451E-01
0.2783E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3788E-03	0.1623					
1921	BalTgt_M3b3	0.000	-0.2933E-03	-0.2933E-03	0.000	0.1227E-01	0.1451E-01
0.2475E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5506E-04	0.6396E-01					
1922	BalTgt_M3b3	0.000	-0.1831E-03	-0.1831E-03	0.000	0.1208E-01	0.1451E-01
0.2606E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6590E-05	0.1372E-01					
1923	BalTgt_M3b3	0.000	0.6939E-04	0.6939E-04	0.000	0.1203E-01	0.1451E-01
0.2386E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2281E-04	0.2117E-01					
1924	BalTgt_M3b3	0.000	0.1982E-03	0.1982E-03	0.000	0.1129E-01	0.1451E-01
0.3005E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1359E-04	0.1145E-01					
1925	BalTgt_M3b3	0.000	0.3200E-03	0.3200E-03	0.000	0.1122E-01	0.1451E-01
0.2945E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2849E-04	0.3251E-01					
1926	BalTgt_M3b3	0.000	-0.5330E-03	-0.5330E-03	0.000	0.1235E-01	0.1451E-01
0.2624E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6516E-04	0.4812E-01					

* Annual mass balance (kg.ha-1) of compound M5b3 in the target layer

* yr	Identifrier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	ConLeaTgt					
1901	BalTgt_M5b3	0.000	0.3888E-03	0.3888E-03	0.000	0.5558E-02	0.5946E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2122E-07	0.3452E-04					

1902	BalTgt_M5b3	0.000	0.6843E-05	0.6843E-05	0.000	0.6333E-02	0.6342E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2231E-05	0.4216E-02					
1903	BalTgt_M5b3	0.000	0.6290E-04	0.6290E-04	0.000	0.6299E-02	0.6377E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1517E-04	0.1403E-01					
1904	BalTgt_M5b3	0.000	0.8285E-04	0.8285E-04	0.000	0.5880E-02	0.5994E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3073E-04	0.2591E-01					
1905	BalTgt_M5b3	0.000	0.1274E-03	0.1274E-03	0.000	0.5778E-02	0.5957E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5110E-04	0.5835E-01					
1906	BalTgt_M5b3	0.000	-0.2113E-03	-0.2113E-03	0.000	0.6684E-02	0.6561E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8853E-04	0.6538E-01					
1907	BalTgt_M5b3	0.000	0.1033E-03	0.1033E-03	0.000	0.5497E-02	0.5766E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1660E-03	0.6828E-01					
1908	BalTgt_M5b3	0.000	-0.9011E-04	-0.9011E-04	0.000	0.7198E-02	0.7186E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7855E-04	0.7088E-01					
1909	BalTgt_M5b3	0.000	0.2188E-03	0.2188E-03	0.000	0.5361E-02	0.5721E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1406E-03	0.6624E-01					
1910	BalTgt_M5b3	0.000	-0.8472E-05	-0.8472E-05	0.000	0.5742E-02	0.6023E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2895E-03	0.1321					
1911	BalTgt_M5b3	0.000	-0.7754E-04	-0.7754E-04	0.000	0.5820E-02	0.6060E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3169E-03	0.1028					
1912	BalTgt_M5b3	0.000	0.3378E-04	0.3378E-04	0.000	0.5746E-02	0.6047E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2680E-03	0.1136					
1913	BalTgt_M5b3	0.000	-0.6096E-04	-0.6096E-04	0.000	0.5893E-02	0.6074E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2421E-03	0.9982E-01					
1914	BalTgt_M5b3	0.000	-0.1762E-03	-0.1762E-03	0.000	0.6240E-02	0.6312E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2484E-03	0.9245E-01					
1915	BalTgt_M5b3	0.000	0.2989E-03	0.2989E-03	0.000	0.5286E-02	0.5732E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1471E-03	0.9077E-01					
1916	BalTgt_M5b3	0.000	-0.1029E-03	-0.1029E-03	0.000	0.5825E-02	0.6183E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4614E-03	0.1443					
1917	BalTgt_M5b3	0.000	0.1698E-03	0.1698E-03	0.000	0.5351E-02	0.5697E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1766E-03	0.1808					
1918	BalTgt_M5b3	0.000	-0.3972E-04	-0.3972E-04	0.000	0.6143E-02	0.6245E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1419E-03	0.9080E-01					
1919	BalTgt_M5b3	0.000	-0.9523E-04	-0.9523E-04	0.000	0.6262E-02	0.6381E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2144E-03	0.1019					
1920	BalTgt_M5b3	0.000	-0.1653E-04	-0.1653E-04	0.000	0.5760E-02	0.6089E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3461E-03	0.1483					
1921	BalTgt_M5b3	0.000	-0.1315E-03	-0.1315E-03	0.000	0.6606E-02	0.6518E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4445E-04	0.5164E-01					
1922	BalTgt_M5b3	0.000	-0.6436E-04	-0.6436E-04	0.000	0.6474E-02	0.6416E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7068E-05	0.1471E-01					
1923	BalTgt_M5b3	0.000	0.4404E-04	0.4404E-04	0.000	0.6322E-02	0.6390E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2402E-04	0.2230E-01					
1924	BalTgt_M5b3	0.000	0.7916E-04	0.7916E-04	0.000	0.5887E-02	0.5998E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3169E-04	0.2670E-01					

1925	BalTgt_M5b3	0.000	0.1272E-03	0.1272E-03	0.000	0.5779E-02	0.5957E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5112E-04	0.5834E-01					
1926	BalTgt_M5b3	0.000	-0.2113E-03	-0.2113E-03	0.000	0.6684E-02	0.6561E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8862E-04	0.6544E-01					

* Annual mass balance (kg.ha-1) of compound M6b3 in the target layer

```

* -----
* -----
* yr Identifier      AmaAppSol  DelAma  DelAmaEqL  DelAmaNeq  AmaTra  AmaFor
AmaUpt  AmaDra  AmaDra_1  AmaDra_2  AmaDra_3  AmaDra_4  AmaDra_5  AmaDep
AmaVol  AmaLea  ConLeaTgt
1901 BalTgt_M6b3  0.000  0.1055E-02  0.1055E-02  0.000  0.1543E-02  0.2598E-02
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.2222E-09  0.3614E-06
1902 BalTgt_M6b3  0.000  0.4116E-03  0.4116E-03  0.000  0.2357E-02  0.2771E-02
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.1962E-05  0.3708E-02
1903 BalTgt_M6b3  0.000  0.2694E-03  0.2694E-03  0.000  0.2466E-02  0.2786E-02
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.5062E-04  0.4680E-01
1904 BalTgt_M6b3  0.000  0.6476E-04  0.6476E-04  0.000  0.2418E-02  0.2619E-02
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.1359E-03  0.1145
1905 BalTgt_M6b3  0.000  0.2473E-03  0.2473E-03  0.000  0.2163E-02  0.2602E-02
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.1920E-03  0.2193
1906 BalTgt_M6b3  0.000  -0.1776E-03  -0.1776E-03  0.000  0.2697E-02  0.2867E-02
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.3475E-03  0.2566
1907 BalTgt_M6b3  0.000  -0.2322E-03  -0.2322E-03  0.000  0.2146E-02  0.2519E-02
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.6054E-03  0.2489
1908 BalTgt_M6b3  0.000  0.1630E-03  0.1630E-03  0.000  0.2673E-02  0.3140E-02
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.3036E-03  0.2740
1909 BalTgt_M6b3  0.000  0.1805E-04  0.1805E-04  0.000  0.1955E-02  0.2499E-02
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.5260E-03  0.2478
1910 BalTgt_M6b3  0.000  0.5574E-04  0.5574E-04  0.000  0.1916E-02  0.2632E-02
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.6599E-03  0.3011
1911 BalTgt_M6b3  0.000  -0.1753E-03  -0.1753E-03  0.000  0.2015E-02  0.2647E-02
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.8074E-03  0.2620
1912 BalTgt_M6b3  0.000  0.2517E-04  0.2517E-04  0.000  0.1949E-02  0.2642E-02
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.6676E-03  0.2830
1913 BalTgt_M6b3  0.000  -0.4906E-04  -0.4906E-04  0.000  0.2088E-02  0.2654E-02
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.6145E-03  0.2534
1914 BalTgt_M6b3  0.000  -0.2524E-03  -0.2524E-03  0.000  0.2304E-02  0.2758E-02
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.7062E-03  0.2628
1915 BalTgt_M6b3  0.000  0.2772E-03  0.2772E-03  0.000  0.1788E-02  0.2504E-02
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.4387E-03  0.2707
1916 BalTgt_M6b3  0.000  -0.1636E-03  -0.1636E-03  0.000  0.1968E-02  0.2701E-02
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.8969E-03  0.2804
1917 BalTgt_M6b3  0.000  0.3837E-03  0.3837E-03  0.000  0.1741E-02  0.2489E-02
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.3647E-03  0.3735
1918 BalTgt_M6b3  0.000  0.1294E-03  0.1294E-03  0.000  0.2189E-02  0.2729E-02
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.4097E-03  0.2621
1919 BalTgt_M6b3  0.000  -0.1722E-03  -0.1722E-03  0.000  0.2363E-02  0.2788E-02
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.5964E-03  0.2836

```

1920	BalTgt_M6b3	0.000	-0.1662E-03	-0.1662E-03	0.000	0.1957E-02	0.2660E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8697E-03	0.3727					
1921	BalTgt_M6b3	0.000	0.1110E-03	0.1110E-03	0.000	0.2560E-02	0.2848E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1771E-03	0.2057					
1922	BalTgt_M6b3	0.000	0.7131E-05	0.7131E-05	0.000	0.2727E-02	0.2803E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6858E-04	0.1427					
1923	BalTgt_M6b3	0.000	0.3526E-04	0.3526E-04	0.000	0.2586E-02	0.2792E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1710E-03	0.1588					
1924	BalTgt_M6b3	0.000	-0.2810E-04	-0.2810E-04	0.000	0.2469E-02	0.2621E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1800E-03	0.1516					
1925	BalTgt_M6b3	0.000	0.2251E-03	0.2251E-03	0.000	0.2175E-02	0.2603E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2025E-03	0.2311					
1926	BalTgt_M6b3	0.000	-0.1881E-03	-0.1881E-03	0.000	0.2700E-02	0.2867E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3545E-03	0.2618					

* Annual mass balance (kg.ha-1) of compound M4b3 in the target layer

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	ConLeaTgt					
1901	BalTgt_M4b3	0.000	0.2151E-03	0.2151E-03	0.000	0.9819E-02	0.1003E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8592E-09	0.1398E-05					
1902	BalTgt_M4b3	0.000	-0.2263E-05	-0.2263E-05	0.000	0.1070E-01	0.1070E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1994E-06	0.3769E-03					
1903	BalTgt_M4b3	0.000	0.2466E-04	0.2466E-04	0.000	0.1073E-01	0.1076E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2502E-05	0.2313E-02					
1904	BalTgt_M4b3	0.000	0.5061E-04	0.5061E-04	0.000	0.1006E-01	0.1011E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5457E-05	0.4600E-02					
1905	BalTgt_M4b3	0.000	0.6998E-04	0.6998E-04	0.000	0.9971E-02	0.1005E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1101E-04	0.1257E-01					
1906	BalTgt_M4b3	0.000	-0.1208E-03	-0.1208E-03	0.000	0.1117E-01	0.1107E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2253E-04	0.1664E-01					
1907	BalTgt_M4b3	0.000	0.9437E-04	0.9437E-04	0.000	0.9591E-02	0.9731E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4555E-04	0.1873E-01					
1908	BalTgt_M4b3	0.000	-0.7985E-04	-0.7985E-04	0.000	0.1218E-01	0.1213E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2704E-04	0.2440E-01					
1909	BalTgt_M4b3	0.000	0.1219E-03	0.1219E-03	0.000	0.9489E-02	0.9654E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4227E-04	0.1992E-01					
1910	BalTgt_M4b3	0.000	0.4454E-05	0.4454E-05	0.000	0.1006E-01	0.1016E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9759E-04	0.4453E-01					
1911	BalTgt_M4b3	0.000	-0.4061E-04	-0.4061E-04	0.000	0.1015E-01	0.1023E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1133E-03	0.3677E-01					
1912	BalTgt_M4b3	0.000	-0.5179E-06	-0.5179E-06	0.000	0.1011E-01	0.1020E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9098E-04	0.3857E-01					
1913	BalTgt_M4b3	0.000	-0.2715E-04	-0.2715E-04	0.000	0.1020E-01	0.1025E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7456E-04	0.3074E-01					
1914	BalTgt_M4b3	0.000	-0.8001E-04	-0.8001E-04	0.000	0.1066E-01	0.1065E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7511E-04	0.2795E-01					

1915	BalTgt_M4b3	0.000	0.1847E-03	0.1847E-03	0.000	0.9438E-02	0.9673E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5012E-04	0.3092E-01					
1916	BalTgt_M4b3	0.000	-0.3419E-04	-0.3419E-04	0.000	0.1031E-01	0.1043E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1613E-03	0.5045E-01					
1917	BalTgt_M4b3	0.000	0.5653E-04	0.5653E-04	0.000	0.9482E-02	0.9614E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7507E-04	0.7687E-01					
1918	BalTgt_M4b3	0.000	-0.2180E-04	-0.2180E-04	0.000	0.1050E-01	0.1054E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5756E-04	0.3683E-01					
1919	BalTgt_M4b3	0.000	-0.6167E-04	-0.6167E-04	0.000	0.1076E-01	0.1077E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6487E-04	0.3084E-01					
1920	BalTgt_M4b3	0.000	-0.2848E-04	-0.2848E-04	0.000	0.1017E-01	0.1028E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1323E-03	0.5668E-01					
1921	BalTgt_M4b3	0.000	-0.6343E-04	-0.6343E-04	0.000	0.1105E-01	0.1100E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1557E-04	0.1809E-01					
1922	BalTgt_M4b3	0.000	-0.3635E-04	-0.3635E-04	0.000	0.1086E-01	0.1083E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2211E-05	0.4603E-02					
1923	BalTgt_M4b3	0.000	0.1497E-04	0.1497E-04	0.000	0.1076E-01	0.1078E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7042E-05	0.6537E-02					
1924	BalTgt_M4b3	0.000	0.4830E-04	0.4830E-04	0.000	0.1007E-01	0.1012E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6180E-05	0.5207E-02					
1925	BalTgt_M4b3	0.000	0.6981E-04	0.6981E-04	0.000	0.9972E-02	0.1005E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1111E-04	0.1268E-01					
1926	BalTgt_M4b3	0.000	-0.1209E-03	-0.1209E-03	0.000	0.1117E-01	0.1107E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2262E-04	0.1671E-01					

* Annual mass balance (kg.ha-1) of compound M52b3 in the target layer

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	ConLeaTgt					
1901	BalTgt_M52b3	0.000	0.4071E-06	0.4071E-06	0.000	0.3002E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2718E-14	0.4422E-11					
1902	BalTgt_M52b3	0.000	-0.3889E-06	-0.3889E-06	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1627E-12	0.3075E-09					
1903	BalTgt_M52b3	0.000	0.5286E-08	0.5286E-08	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1352E-13	0.1250E-10					
1904	BalTgt_M52b3	0.000	0.1211E-06	0.1211E-06	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1322E-11	0.1114E-08					
1905	BalTgt_M52b3	0.000	0.3336E-06	0.3336E-06	0.000	0.3002E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4637E-11	0.5295E-08					
1906	BalTgt_M52b3	0.000	-0.4067E-06	-0.4067E-06	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9927E-11	0.7331E-08					
1907	BalTgt_M52b3	0.000	0.8925E-06	0.8925E-06	0.000	0.3002E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1462E-09	0.6012E-07					
1908	BalTgt_M52b3	0.000	-0.9518E-06	-0.9518E-06	0.000	0.3004E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4746E-10	0.4283E-07					
1909	BalTgt_M52b3	0.000	0.6012E-06	0.6012E-06	0.000	0.3002E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5927E-11	0.2792E-08					

1910	BalTgt_M52b3	0.000	0.1386E-06	0.1386E-06	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9962E-10	0.4545E-07					
1911	BalTgt_M52b3	0.000	-0.4643E-06	-0.4643E-06	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6219E-11	0.2018E-08					
1912	BalTgt_M52b3	0.000	-0.2245E-06	-0.2245E-06	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4522E-11	0.1917E-08					
1913	BalTgt_M52b3	0.000	0.1906E-06	0.1906E-06	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6150E-11	0.2536E-08					
1914	BalTgt_M52b3	0.000	-0.2374E-06	-0.2374E-06	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1490E-11	0.5545E-09					
1915	BalTgt_M52b3	0.000	0.3597E-05	0.3597E-05	0.000	0.2999E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7498E-08	0.4626E-05					
1916	BalTgt_M52b3	0.000	-0.2901E-05	-0.2901E-05	0.000	0.3006E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8723E-08	0.2728E-05					
1917	BalTgt_M52b3	0.000	0.1064E-05	0.1064E-05	0.000	0.3002E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5307E-09	0.5434E-06					
1918	BalTgt_M52b3	0.000	0.4266E-06	0.4266E-06	0.000	0.3002E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.5690E-09	0.000					
1919	BalTgt_M52b3	0.000	-0.2038E-05	-0.2038E-05	0.000	0.3005E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.4076E-09	0.000					
1920	BalTgt_M52b3	0.000	-0.2885E-07	-0.2885E-07	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.1353E-09	0.000					
1921	BalTgt_M52b3	0.000	0.1994E-06	0.1994E-06	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.1691E-09	0.000					
1922	BalTgt_M52b3	0.000	-0.3174E-06	-0.3174E-06	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.1378E-09	0.000					
1923	BalTgt_M52b3	0.000	0.5415E-08	0.5415E-08	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.1103E-09	0.000					
1924	BalTgt_M52b3	0.000	0.1206E-06	0.1206E-06	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.8680E-10	0.000					
1925	BalTgt_M52b3	0.000	0.3338E-06	0.3338E-06	0.000	0.3002E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.6536E-10	0.000					
1926	BalTgt_M52b3	0.000	-0.4062E-06	-0.4062E-06	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	-0.5501E-10	0.000					

* Annual mass balance (kg.ha-1) of compound M1b3 in the target layer

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	ConLeaTgt					
1901	BalTgt_M1b3	0.000	0.2843E-03	0.2843E-03	0.000	0.6918E-02	0.7202E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1521E-07	0.2475E-04					
1902	BalTgt_M1b3	0.000	-0.9884E-06	-0.9884E-06	0.000	0.7681E-02	0.7681E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1001E-05	0.1891E-02					
1903	BalTgt_M1b3	0.000	0.3954E-04	0.3954E-04	0.000	0.7677E-02	0.7724E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7403E-05	0.6844E-02					
1904	BalTgt_M1b3	0.000	0.6623E-04	0.6623E-04	0.000	0.7178E-02	0.7260E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1615E-04	0.1362E-01					

1905	BalTgt_M1b3	0.000	0.9609E-04	0.9609E-04	0.000	0.7091E-02	0.7215E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2715E-04	0.3101E-01					
1906	BalTgt_M1b3	0.000	-0.1625E-03	-0.1625E-03	0.000	0.8059E-02	0.7947E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4995E-04	0.3688E-01					
1907	BalTgt_M1b3	0.000	0.1027E-03	0.1027E-03	0.000	0.6782E-02	0.6984E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9964E-04	0.4098E-01					
1908	BalTgt_M1b3	0.000	-0.8961E-04	-0.8961E-04	0.000	0.8746E-02	0.8704E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4781E-04	0.4315E-01					
1909	BalTgt_M1b3	0.000	0.1681E-03	0.1681E-03	0.000	0.6677E-02	0.6929E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8424E-04	0.3969E-01					
1910	BalTgt_M1b3	0.000	-0.4367E-05	-0.4367E-05	0.000	0.7112E-02	0.7295E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1881E-03	0.8583E-01					
1911	BalTgt_M1b3	0.000	-0.5378E-04	-0.5378E-04	0.000	0.7185E-02	0.7339E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2083E-03	0.6762E-01					
1912	BalTgt_M1b3	0.000	0.1247E-04	0.1247E-04	0.000	0.7139E-02	0.7324E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1729E-03	0.7328E-01					
1913	BalTgt_M1b3	0.000	-0.4207E-04	-0.4207E-04	0.000	0.7250E-02	0.7357E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1488E-03	0.6135E-01					
1914	BalTgt_M1b3	0.000	-0.1195E-03	-0.1195E-03	0.000	0.7613E-02	0.7645E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1514E-03	0.5633E-01					
1915	BalTgt_M1b3	0.000	0.2378E-03	0.2378E-03	0.000	0.6610E-02	0.6943E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9495E-04	0.5859E-01					
1916	BalTgt_M1b3	0.000	-0.6599E-04	-0.6599E-04	0.000	0.7249E-02	0.7489E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3063E-03	0.9578E-01					
1917	BalTgt_M1b3	0.000	0.1023E-03	0.1023E-03	0.000	0.6674E-02	0.6900E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1237E-03	0.1266					
1918	BalTgt_M1b3	0.000	-0.2819E-04	-0.2819E-04	0.000	0.7497E-02	0.7564E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9521E-04	0.6091E-01					
1919	BalTgt_M1b3	0.000	-0.7756E-04	-0.7756E-04	0.000	0.7676E-02	0.7728E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1300E-03	0.6180E-01					
1920	BalTgt_M1b3	0.000	-0.2502E-04	-0.2502E-04	0.000	0.7168E-02	0.7375E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2325E-03	0.9961E-01					
1921	BalTgt_M1b3	0.000	-0.9438E-04	-0.9438E-04	0.000	0.7963E-02	0.7895E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2711E-04	0.3149E-01					
1922	BalTgt_M1b3	0.000	-0.4682E-04	-0.4682E-04	0.000	0.7814E-02	0.7771E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3943E-05	0.8207E-02					
1923	BalTgt_M1b3	0.000	0.2692E-04	0.2692E-04	0.000	0.7699E-02	0.7740E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1367E-04	0.1269E-01					
1924	BalTgt_M1b3	0.000	0.6350E-04	0.6350E-04	0.000	0.7184E-02	0.7265E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1704E-04	0.1436E-01					
1925	BalTgt_M1b3	0.000	0.9596E-04	0.9596E-04	0.000	0.7092E-02	0.7215E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2725E-04	0.3110E-01					
1926	BalTgt_M1b3	0.000	-0.1625E-03	-0.1625E-03	0.000	0.8059E-02	0.7947E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5004E-04	0.3695E-01					

* Annual mass balance (kg.ha-1) of compound PXDb3 in the soil profile

Page 119 of 196

1923 BalSol_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1924 BalSol_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1925 BalSol_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1926 BalSol_PXDb3	0.3600E-01	0.000	0.000	0.000	0.3600E-01	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				

* Annual mass balance (kg.ha-1) of compound M2b3 in the soil profile

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	AmaLeaAqf					
1901 BalSol_M2b3	0.000	0.4960E-09	0.4960E-09	0.000	0.2511E-01	0.2511E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1902 BalSol_M2b3	0.000	-0.4758E-09	-0.4758E-09	0.000	0.2511E-01	0.2511E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1903 BalSol_M2b3	0.000	0.6556E-11	0.6556E-11	0.000	0.2511E-01	0.2511E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1904 BalSol_M2b3	0.000	0.1142E-08	0.1142E-08	0.000	0.2511E-01	0.2511E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1905 BalSol_M2b3	0.000	0.2636E-08	0.2636E-08	0.000	0.2511E-01	0.2511E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1906 BalSol_M2b3	0.000	-0.2607E-08	-0.2607E-08	0.000	0.2511E-01	0.2511E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.1835E-14	0.1835E-14					
1907 BalSol_M2b3	0.000	0.1106E-07	0.1106E-07	0.000	0.2511E-01	0.2511E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.7933E-13	0.7933E-13					
1908 BalSol_M2b3	0.000	-0.3553E-08	-0.3553E-08	0.000	0.2511E-01	0.2511E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.1810E-11	0.1810E-11					
1909 BalSol_M2b3	0.000	0.6213E-08	0.6213E-08	0.000	0.2511E-01	0.2511E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.3414E-10	0.3414E-10					
1910 BalSol_M2b3	0.000	-0.1410E-09	-0.1410E-09	0.000	0.2511E-01	0.2511E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.3300E-09	0.3300E-09					
1911 BalSol_M2b3	0.000	-0.1504E-08	-0.1504E-08	0.000	0.2511E-01	0.2511E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.1415E-08	0.1415E-08					
1912 BalSol_M2b3	0.000	-0.3530E-08	-0.3530E-08	0.000	0.2511E-01	0.2511E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.3602E-08	0.3602E-08					
1913 BalSol_M2b3	0.000	-0.2186E-08	-0.2186E-08	0.000	0.2511E-01	0.2511E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.3243E-08	0.3243E-08					
1914 BalSol_M2b3	0.000	-0.2846E-08	-0.2846E-08	0.000	0.2511E-01	0.2511E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.2246E-08	0.2246E-08					
1915 BalSol_M2b3	0.000	0.9282E-07	0.9282E-07	0.000	0.2511E-01	0.2511E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.2068E-08	0.2068E-08					
1916 BalSol_M2b3	0.000	0.2199E-07	0.2199E-07	0.000	0.2511E-01	0.2511E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.8347E-09	0.8347E-09					
1917 BalSol_M2b3	0.000	0.9929E-08	0.9929E-08	0.000	0.2511E-01	0.2511E-01	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.8636E-09	0.8636E-09					

1918	BalSol_M2b3	0.000	-0.3384E-08	-0.3384E-08	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6376E-09	0.6376E-09					
1919	BalSol_M2b3	0.000	-0.6481E-08	-0.6481E-08	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2601E-08	0.2601E-08					
1920	BalSol_M2b3	0.000	-0.3303E-07	-0.3303E-07	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3399E-07	0.3399E-07					
1921	BalSol_M2b3	0.000	-0.2439E-07	-0.2439E-07	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2371E-07	0.2371E-07					
1922	BalSol_M2b3	0.000	-0.1427E-07	-0.1427E-07	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1397E-07	0.1397E-07					
1923	BalSol_M2b3	0.000	-0.1294E-07	-0.1294E-07	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1294E-07	0.1294E-07					
1924	BalSol_M2b3	0.000	-0.7568E-08	-0.7568E-08	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8692E-08	0.8692E-08					
1925	BalSol_M2b3	0.000	-0.8369E-08	-0.8369E-08	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1100E-07	0.1100E-07					
1926	BalSol_M2b3	0.000	-0.1001E-07	-0.1001E-07	0.000	0.2511E-01	0.2511E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7414E-08	0.7414E-08					

* Annual mass balance (kg.ha-1) of compound M3b3 in the soil profile

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	AmaLeaAqf					
1901	BalSol_M3b3	0.000	0.9873E-03	0.9873E-03	0.000	0.1120E-01	0.1451E-01
0.2327E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1902	BalSol_M3b3	0.000	-0.1852E-04	-0.1852E-04	0.000	0.1194E-01	0.1451E-01
0.2588E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1903	BalSol_M3b3	0.000	0.1233E-03	0.1233E-03	0.000	0.1201E-01	0.1451E-01
0.2380E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1904	BalSol_M3b3	0.000	0.2212E-03	0.2212E-03	0.000	0.1129E-01	0.1451E-01
0.3003E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1905	BalSol_M3b3	0.000	0.3499E-03	0.3499E-03	0.000	0.1122E-01	0.1451E-01
0.2945E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1906	BalSol_M3b3	0.000	-0.4676E-03	-0.4676E-03	0.000	0.1235E-01	0.1451E-01
0.2624E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7457E-17	0.7457E-17					
1907	BalSol_M3b3	0.000	0.5612E-03	0.5612E-03	0.000	0.1086E-01	0.1451E-01
0.3091E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9050E-13	0.9050E-13					
1908	BalSol_M3b3	0.000	-0.2726E-03	-0.2726E-03	0.000	0.1353E-01	0.1451E-01
0.1251E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7654E-10	0.7654E-10					
1909	BalSol_M3b3	0.000	0.6819E-03	0.6819E-03	0.000	0.1077E-01	0.1451E-01
0.3057E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1028E-07	0.1028E-07					
1910	BalSol_M3b3	0.000	0.3003E-03	0.3003E-03	0.000	0.1134E-01	0.1451E-01
0.2868E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5456E-06	0.5456E-06					
1911	BalSol_M3b3	0.000	0.1173E-03	0.1173E-03	0.000	0.1141E-01	0.1451E-01
0.2978E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5435E-05	0.5435E-05					
1912	BalSol_M3b3	0.000	0.2392E-03	0.2392E-03	0.000	0.1139E-01	0.1451E-01
0.2858E-02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2678E-04	0.2678E-04					

1913 BalSol_M3b3	0.000	0.2927E-04	0.2927E-04	0.000	0.1144E-01	0.1451E-01
0.2983E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6098E-04	0.6098E-04				
1914 BalSol_M3b3	0.000	-0.2311E-03	-0.2311E-03	0.000	0.1189E-01	0.1451E-01
0.2768E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8850E-04	0.8850E-04				
1915 BalSol_M3b3	0.000	0.8515E-03	0.8515E-03	0.000	0.1079E-01	0.1451E-01
0.2682E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1830E-03	0.1830E-03				
1916 BalSol_M3b3	0.000	0.1419E-03	0.1419E-03	0.000	0.1164E-01	0.1451E-01
0.2570E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1557E-03	0.1557E-03				
1917 BalSol_M3b3	0.000	0.2441E-03	0.2441E-03	0.000	0.1073E-01	0.1451E-01
0.3289E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2500E-03	0.2500E-03				
1918 BalSol_M3b3	0.000	-0.7753E-04	-0.7753E-04	0.000	0.1176E-01	0.1451E-01
0.2698E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1304E-03	0.1304E-03				
1919 BalSol_M3b3	0.000	-0.2279E-03	-0.2279E-03	0.000	0.1201E-01	0.1451E-01
0.2594E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1295E-03	0.1295E-03				
1920 BalSol_M3b3	0.000	-0.3974E-04	-0.3974E-04	0.000	0.1147E-01	0.1451E-01
0.2783E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3018E-03	0.3018E-03				
1921 BalSol_M3b3	0.000	-0.3584E-03	-0.3584E-03	0.000	0.1227E-01	0.1451E-01
0.2475E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1201E-03	0.1201E-03				
1922 BalSol_M3b3	0.000	-0.2496E-03	-0.2496E-03	0.000	0.1208E-01	0.1451E-01
0.2606E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7300E-04	0.7300E-04				
1923 BalSol_M3b3	0.000	0.1362E-04	0.1362E-04	0.000	0.1203E-01	0.1451E-01
0.2386E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7858E-04	0.7858E-04				
1924 BalSol_M3b3	0.000	0.1456E-03	0.1456E-03	0.000	0.1129E-01	0.1451E-01
0.3005E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6622E-04	0.6622E-04				
1925 BalSol_M3b3	0.000	0.2263E-03	0.2263E-03	0.000	0.1122E-01	0.1451E-01
0.2945E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1221E-03	0.1221E-03				
1926 BalSol_M3b3	0.000	-0.6213E-03	-0.6213E-03	0.000	0.1235E-01	0.1451E-01
0.2624E-02	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1535E-03	0.1535E-03				

* Annual mass balance (kg.ha-1) of compound M5b3 in the soil profile

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
		AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
		AmaLea	AmaLeaAqf				
1901	BalSol_M5b3	0.000	0.3888E-03	0.3888E-03	0.000	0.5558E-02	0.5946E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1902	BalSol_M5b3	0.000	0.9073E-05	0.9073E-05	0.000	0.6333E-02	0.6342E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1903	BalSol_M5b3	0.000	0.7807E-04	0.7807E-04	0.000	0.6299E-02	0.6377E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1904	BalSol_M5b3	0.000	0.1136E-03	0.1136E-03	0.000	0.5880E-02	0.5994E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1905	BalSol_M5b3	0.000	0.1785E-03	0.1785E-03	0.000	0.5778E-02	0.5957E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9461E-16	0.9461E-16					
1906	BalSol_M5b3	0.000	-0.1228E-03	-0.1228E-03	0.000	0.6684E-02	0.6561E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5485E-11	0.5485E-11					
1907	BalSol_M5b3	0.000	0.2693E-03	0.2693E-03	0.000	0.5497E-02	0.5766E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2284E-08	0.2284E-08					

1908	BalSol_M5b3	0.000	-0.1173E-04	-0.1173E-04	0.000	0.7198E-02	0.7186E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1613E-06	0.1613E-06					
1909	BalSol_M5b3	0.000	0.3564E-03	0.3564E-03	0.000	0.5361E-02	0.5721E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3066E-05	0.3066E-05					
1910	BalSol_M5b3	0.000	0.2511E-03	0.2511E-03	0.000	0.5742E-02	0.6023E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2995E-04	0.2995E-04					
1911	BalSol_M5b3	0.000	0.1600E-03	0.1600E-03	0.000	0.5820E-02	0.6060E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7936E-04	0.7936E-04					
1912	BalSol_M5b3	0.000	0.1618E-03	0.1618E-03	0.000	0.5746E-02	0.6047E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1399E-03	0.1399E-03					
1913	BalSol_M5b3	0.000	0.1436E-04	0.1436E-04	0.000	0.5893E-02	0.6074E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1668E-03	0.1668E-03					
1914	BalSol_M5b3	0.000	-0.1084E-03	-0.1084E-03	0.000	0.6240E-02	0.6312E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1806E-03	0.1806E-03					
1915	BalSol_M5b3	0.000	0.1402E-03	0.1402E-03	0.000	0.5286E-02	0.5732E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3058E-03	0.3058E-03					
1916	BalSol_M5b3	0.000	0.1513E-03	0.1513E-03	0.000	0.5825E-02	0.6183E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2072E-03	0.2072E-03					
1917	BalSol_M5b3	0.000	0.6920E-04	0.6920E-04	0.000	0.5351E-02	0.5697E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2771E-03	0.2771E-03					
1918	BalSol_M5b3	0.000	-0.2652E-04	-0.2652E-04	0.000	0.6143E-02	0.6245E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1287E-03	0.1287E-03					
1919	BalSol_M5b3	0.000	-0.2888E-05	-0.2888E-05	0.000	0.6262E-02	0.6381E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1221E-03	0.1221E-03					
1920	BalSol_M5b3	0.000	0.4455E-04	0.4455E-04	0.000	0.5760E-02	0.6089E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2851E-03	0.2851E-03					
1921	BalSol_M5b3	0.000	-0.2163E-03	-0.2163E-03	0.000	0.6606E-02	0.6518E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1292E-03	0.1292E-03					
1922	BalSol_M5b3	0.000	-0.1464E-03	-0.1464E-03	0.000	0.6474E-02	0.6416E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8912E-04	0.8912E-04					
1923	BalSol_M5b3	0.000	-0.3615E-04	-0.3615E-04	0.000	0.6322E-02	0.6390E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1042E-03	0.1042E-03					
1924	BalSol_M5b3	0.000	0.2017E-04	0.2017E-04	0.000	0.5887E-02	0.5998E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9068E-04	0.9068E-04					
1925	BalSol_M5b3	0.000	0.1759E-04	0.1759E-04	0.000	0.5779E-02	0.5957E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1607E-03	0.1607E-03					
1926	BalSol_M5b3	0.000	-0.2989E-03	-0.2989E-03	0.000	0.6684E-02	0.6561E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1762E-03	0.1762E-03					

* Annual mass balance (kg.ha-1) of compound M6b3 in the soil profile

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	AmaLeaAqf					
1901	BalSol_M6b3	0.000	0.1055E-02	0.1055E-02	0.000	0.1543E-02	0.2598E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					
1902	BalSol_M6b3	0.000	0.4135E-03	0.4135E-03	0.000	0.2357E-02	0.2771E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000					

1903 BalSol_M6b3	0.000	0.3200E-03	0.3200E-03	0.000	0.2466E-02	0.2786E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1904 BalSol_M6b3	0.000	0.2006E-03	0.2006E-03	0.000	0.2418E-02	0.2619E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1905 BalSol_M6b3	0.000	0.4394E-03	0.4394E-03	0.000	0.2163E-02	0.2602E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1906 BalSol_M6b3	0.000	0.1699E-03	0.1699E-03	0.000	0.2697E-02	0.2867E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1925E-15	0.1925E-15				
1907 BalSol_M6b3	0.000	0.3732E-03	0.3732E-03	0.000	0.2146E-02	0.2519E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8262E-11	0.8262E-11				
1908 BalSol_M6b3	0.000	0.4667E-03	0.4667E-03	0.000	0.2673E-02	0.3140E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9369E-08	0.9369E-08				
1909 BalSol_M6b3	0.000	0.5431E-03	0.5431E-03	0.000	0.1955E-02	0.2499E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9655E-06	0.9655E-06				
1910 BalSol_M6b3	0.000	0.6874E-03	0.6874E-03	0.000	0.1916E-02	0.2632E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2825E-04	0.2825E-04				
1911 BalSol_M6b3	0.000	0.4872E-03	0.4872E-03	0.000	0.2015E-02	0.2647E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1449E-03	0.1449E-03				
1912 BalSol_M6b3	0.000	0.3185E-03	0.3185E-03	0.000	0.1949E-02	0.2642E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3743E-03	0.3743E-03				
1913 BalSol_M6b3	0.000	0.5734E-04	0.5734E-04	0.000	0.2088E-02	0.2654E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5081E-03	0.5081E-03				
1914 BalSol_M6b3	0.000	-0.5981E-04	-0.5981E-04	0.000	0.2304E-02	0.2758E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5136E-03	0.5136E-03				
1915 BalSol_M6b3	0.000	-0.6261E-04	-0.6261E-04	0.000	0.1788E-02	0.2504E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7786E-03	0.7786E-03				
1916 BalSol_M6b3	0.000	0.2204E-03	0.2204E-03	0.000	0.1968E-02	0.2701E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5130E-03	0.5130E-03				
1917 BalSol_M6b3	0.000	0.5000E-04	0.5000E-04	0.000	0.1741E-02	0.2489E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6984E-03	0.6984E-03				
1918 BalSol_M6b3	0.000	0.2013E-03	0.2013E-03	0.000	0.2189E-02	0.2729E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3378E-03	0.3378E-03				
1919 BalSol_M6b3	0.000	0.9368E-04	0.9368E-04	0.000	0.2363E-02	0.2788E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3306E-03	0.3306E-03				
1920 BalSol_M6b3	0.000	-0.8913E-04	-0.8913E-04	0.000	0.1957E-02	0.2660E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7927E-03	0.7927E-03				
1921 BalSol_M6b3	0.000	-0.4523E-04	-0.4523E-04	0.000	0.2560E-02	0.2848E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3333E-03	0.3333E-03				
1922 BalSol_M6b3	0.000	-0.1312E-03	-0.1312E-03	0.000	0.2727E-02	0.2803E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2069E-03	0.2069E-03				
1923 BalSol_M6b3	0.000	-0.1770E-04	-0.1770E-04	0.000	0.2586E-02	0.2792E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2240E-03	0.2240E-03				
1924 BalSol_M6b3	0.000	-0.3535E-04	-0.3535E-04	0.000	0.2469E-02	0.2621E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1872E-03	0.1872E-03				
1925 BalSol_M6b3	0.000	0.9395E-04	0.9395E-04	0.000	0.2175E-02	0.2603E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3337E-03	0.3337E-03				

1926	BalSol_M4b3	0.000	-0.2223E-03	-0.2223E-03	0.000	0.2700E-02	0.2867E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3887E-03	0.3887E-03					

* Annual mass balance (kg.ha-1) of compound M4b3 in the soil profile

```

* -----
* -----
* yr Identifier      AmaAppSol    DelAma    DelAmaEqL    DelAmaNeq    AmaTra    AmaFor
AmaUpt    AmaDra    AmaDra_1    AmaDra_2    AmaDra_3    AmaDra_4    AmaDra_5    AmaDep
AmaVol    AmaLea    AmaLeaAqf
1901 BalSol_M4b3    0.000    0.2151E-03    0.2151E-03    0.000    0.9819E-02    0.1003E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.000    0.000
1902 BalSol_M4b3    0.000    -0.2064E-05    -0.2064E-05    0.000    0.1070E-01    0.1070E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.000    0.000
1903 BalSol_M4b3    0.000    0.2717E-04    0.2717E-04    0.000    0.1073E-01    0.1076E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.000    0.000
1904 BalSol_M4b3    0.000    0.5606E-04    0.5606E-04    0.000    0.1006E-01    0.1011E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.000    0.000
1905 BalSol_M4b3    0.000    0.8099E-04    0.8099E-04    0.000    0.9971E-02    0.1005E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.000    0.000
1906 BalSol_M4b3    0.000    -0.9829E-04    -0.9829E-04    0.000    0.1117E-01    0.1107E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.2672E-14    0.2672E-14
1907 BalSol_M4b3    0.000    0.1399E-03    0.1399E-03    0.000    0.9591E-02    0.9731E-02
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.9653E-11    0.9653E-11
1908 BalSol_M4b3    0.000    -0.5281E-04    -0.5281E-04    0.000    0.1218E-01    0.1213E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.2685E-08    0.2685E-08
1909 BalSol_M4b3    0.000    0.1640E-03    0.1640E-03    0.000    0.9489E-02    0.9654E-02
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.1267E-06    0.1267E-06
1910 BalSol_M4b3    0.000    0.9948E-04    0.9948E-04    0.000    0.1006E-01    0.1016E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.2565E-05    0.2565E-05
1911 BalSol_M4b3    0.000    0.6130E-04    0.6130E-04    0.000    0.1015E-01    0.1023E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.1140E-04    0.1140E-04
1912 BalSol_M4b3    0.000    0.6188E-04    0.6188E-04    0.000    0.1011E-01    0.1020E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.2859E-04    0.2859E-04
1913 BalSol_M4b3    0.000    0.5495E-05    0.5495E-05    0.000    0.1020E-01    0.1025E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.4192E-04    0.4192E-04
1914 BalSol_M4b3    0.000    -0.5421E-04    -0.5421E-04    0.000    0.1066E-01    0.1065E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.4931E-04    0.4931E-04
1915 BalSol_M4b3    0.000    0.1407E-03    0.1407E-03    0.000    0.9438E-02    0.9673E-02
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.9411E-04    0.9411E-04
1916 BalSol_M4b3    0.000    0.5738E-04    0.5738E-04    0.000    0.1031E-01    0.1043E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.6977E-04    0.6977E-04
1917 BalSol_M4b3    0.000    0.3651E-04    0.3651E-04    0.000    0.9482E-02    0.9614E-02
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.9509E-04    0.9509E-04
1918 BalSol_M4b3    0.000    -0.8142E-05    -0.8142E-05    0.000    0.1050E-01    0.1054E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.4390E-04    0.4390E-04
1919 BalSol_M4b3    0.000    -0.3787E-04    -0.3787E-04    0.000    0.1076E-01    0.1077E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.4106E-04    0.4106E-04
1920 BalSol_M4b3    0.000    0.1087E-04    0.1087E-04    0.000    0.1017E-01    0.1028E-01
0.000    0.000    0.000    0.000    0.000    0.000    0.000    0.000
0.000    0.9293E-04    0.9293E-04

```

1921 BalSol_M4b3	0.000	-0.8828E-04	-0.8828E-04	0.000	0.1105E-01	0.1100E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4042E-04	0.4042E-04				
1922 BalSol_M4b3	0.000	-0.6157E-04	-0.6157E-04	0.000	0.1086E-01	0.1083E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2743E-04	0.2743E-04				
1923 BalSol_M4b3	0.000	-0.1048E-04	-0.1048E-04	0.000	0.1076E-01	0.1078E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.3249E-04	0.3249E-04				
1924 BalSol_M4b3	0.000	0.2517E-04	0.2517E-04	0.000	0.1007E-01	0.1012E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.2931E-04	0.2931E-04				
1925 BalSol_M4b3	0.000	0.2554E-04	0.2554E-04	0.000	0.9972E-02	0.1005E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5538E-04	0.5538E-04				
1926 BalSol_M4b3	0.000	-0.1635E-03	-0.1635E-03	0.000	0.1117E-01	0.1107E-01
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6527E-04	0.6527E-04				

* Annual mass balance (kg.ha-1) of compound M52b3 in the soil profile

* yr	Identifier	AmaAppSol	DelAma	DelAmaEqL	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	AmaLeaAqf					
1901 BalSol_M52b3	0.000	0.4071E-06	0.4071E-06	0.000	0.3002E-02	0.3003E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1902 BalSol_M52b3	0.000	-0.3889E-06	-0.3889E-06	0.000	0.3003E-02	0.3003E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1903 BalSol_M52b3	0.000	0.5286E-08	0.5286E-08	0.000	0.3003E-02	0.3003E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1904 BalSol_M52b3	0.000	0.1211E-06	0.1211E-06	0.000	0.3003E-02	0.3003E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1905 BalSol_M52b3	0.000	0.3336E-06	0.3336E-06	0.000	0.3002E-02	0.3003E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1906 BalSol_M52b3	0.000	-0.4067E-06	-0.4067E-06	0.000	0.3003E-02	0.3003E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1907 BalSol_M52b3	0.000	0.8926E-06	0.8926E-06	0.000	0.3002E-02	0.3003E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1908 BalSol_M52b3	0.000	-0.9518E-06	-0.9518E-06	0.000	0.3004E-02	0.3003E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1909 BalSol_M52b3	0.000	0.6012E-06	0.6012E-06	0.000	0.3002E-02	0.3003E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1910 BalSol_M52b3	0.000	0.1387E-06	0.1387E-06	0.000	0.3003E-02	0.3003E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1911 BalSol_M52b3	0.000	-0.4643E-06	-0.4643E-06	0.000	0.3003E-02	0.3003E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1912 BalSol_M52b3	0.000	-0.2245E-06	-0.2245E-06	0.000	0.3003E-02	0.3003E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1913 BalSol_M52b3	0.000	0.1906E-06	0.1906E-06	0.000	0.3003E-02	0.3003E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1914 BalSol_M52b3	0.000	-0.2374E-06	-0.2374E-06	0.000	0.3003E-02	0.3003E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1915 BalSol_M52b3	0.000	0.3605E-05	0.3605E-05	0.000	0.2999E-02	0.3003E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					

1916 BalSol_M52b3	0.000	-0.2893E-05	-0.2893E-05	0.000	0.3006E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1917 BalSol_M52b3	0.000	0.1065E-05	0.1065E-05	0.000	0.3002E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1918 BalSol_M52b3	0.000	0.4260E-06	0.4260E-06	0.000	0.3002E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1919 BalSol_M52b3	0.000	-0.2039E-05	-0.2039E-05	0.000	0.3005E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1920 BalSol_M52b3	0.000	-0.2898E-07	-0.2898E-07	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1921 BalSol_M52b3	0.000	0.1992E-06	0.1992E-06	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1922 BalSol_M52b3	0.000	-0.3176E-06	-0.3176E-06	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1923 BalSol_M52b3	0.000	0.5305E-08	0.5305E-08	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1924 BalSol_M52b3	0.000	0.1205E-06	0.1205E-06	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1925 BalSol_M52b3	0.000	0.3337E-06	0.3337E-06	0.000	0.3002E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				
1926 BalSol_M52b3	0.000	-0.4063E-06	-0.4063E-06	0.000	0.3003E-02	0.3003E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000				

* Annual mass balance (kg.ha-1) of compound M1b3 in the soil profile

* yr	Identifier	AmaAppSol	DelAma	DelAmaEq1	DelAmaNeq	AmaTra	AmaFor
AmaUpt	AmaDra	AmaDra_1	AmaDra_2	AmaDra_3	AmaDra_4	AmaDra_5	AmaDep
AmaVol	AmaLea	AmaLeaAqf					
1901 BalSol_M1b3	0.000	0.2843E-03	0.2843E-03	0.000	0.6918E-02	0.7202E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1902 BalSol_M1b3	0.000	0.1253E-07	0.1253E-07	0.000	0.7681E-02	0.7681E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1903 BalSol_M1b3	0.000	0.4694E-04	0.4694E-04	0.000	0.7677E-02	0.7724E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1904 BalSol_M1b3	0.000	0.8238E-04	0.8238E-04	0.000	0.7178E-02	0.7260E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000					
1905 BalSol_M1b3	0.000	0.1232E-03	0.1232E-03	0.000	0.7091E-02	0.7215E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.4645E-14	0.4645E-14					
1906 BalSol_M1b3	0.000	-0.1125E-03	-0.1125E-03	0.000	0.8059E-02	0.7947E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.1340E-10	0.1340E-10					
1907 BalSol_M1b3	0.000	0.2024E-03	0.2024E-03	0.000	0.6782E-02	0.6984E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.2152E-08	0.2152E-08					
1908 BalSol_M1b3	0.000	-0.4190E-04	-0.4190E-04	0.000	0.8746E-02	0.8704E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.1011E-06	0.1011E-06					
1909 BalSol_M1b3	0.000	0.2507E-03	0.2507E-03	0.000	0.6677E-02	0.6929E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.1647E-05	0.1647E-05					
1910 BalSol_M1b3	0.000	0.1680E-03	0.1680E-03	0.000	0.7112E-02	0.7295E-02	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.1571E-04	0.1571E-04					

1911	BalSol_M1b3	0.000	0.1116E-03	0.1116E-03	0.000	0.7185E-02	0.7339E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.4294E-04	0.4294E-04					
1912	BalSol_M1b3	0.000	0.1056E-03	0.1056E-03	0.000	0.7139E-02	0.7324E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7975E-04	0.7975E-04					
1913	BalSol_M1b3	0.000	0.7480E-05	0.7480E-05	0.000	0.7250E-02	0.7357E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.9923E-04	0.9923E-04					
1914	BalSol_M1b3	0.000	-0.7920E-04	-0.7920E-04	0.000	0.7613E-02	0.7645E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1111E-03	0.1111E-03					
1915	BalSol_M1b3	0.000	0.1369E-03	0.1369E-03	0.000	0.6610E-02	0.6943E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1959E-03	0.1959E-03					
1916	BalSol_M1b3	0.000	0.1058E-03	0.1058E-03	0.000	0.7249E-02	0.7489E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1345E-03	0.1345E-03					
1917	BalSol_M1b3	0.000	0.4793E-04	0.4793E-04	0.000	0.6674E-02	0.6900E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1781E-03	0.1781E-03					
1918	BalSol_M1b3	0.000	-0.1435E-04	-0.1435E-04	0.000	0.7497E-02	0.7564E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8137E-04	0.8137E-04					
1919	BalSol_M1b3	0.000	-0.2397E-04	-0.2397E-04	0.000	0.7676E-02	0.7728E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.7637E-04	0.7637E-04					
1920	BalSol_M1b3	0.000	0.2914E-04	0.2914E-04	0.000	0.7168E-02	0.7375E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1783E-03	0.1783E-03					
1921	BalSol_M1b3	0.000	-0.1496E-03	-0.1496E-03	0.000	0.7963E-02	0.7895E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.8230E-04	0.8230E-04					
1922	BalSol_M1b3	0.000	-0.1003E-03	-0.1003E-03	0.000	0.7814E-02	0.7771E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5745E-04	0.5745E-04					
1923	BalSol_M1b3	0.000	-0.2734E-04	-0.2734E-04	0.000	0.7699E-02	0.7740E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.6793E-04	0.6793E-04					
1924	BalSol_M1b3	0.000	0.2080E-04	0.2080E-04	0.000	0.7184E-02	0.7265E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.5975E-04	0.5975E-04					
1925	BalSol_M1b3	0.000	0.1621E-04	0.1621E-04	0.000	0.7092E-02	0.7215E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1070E-03	0.1070E-03					
1926	BalSol_M1b3	0.000	-0.2301E-03	-0.2301E-03	0.000	0.8059E-02	0.7947E-02
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.1176E-03	0.1176E-03					

* Intermediate target output for compound PXDb3

* yr	Identifier	Amalea (kg/ha)	FlvLea (m)	ConLea (ug/L)
1907	Target_PXDb3	0.0000	0.24317	0.0000
1908	Target_PXDb3	0.0000	0.11081	0.0000
1909	Target_PXDb3	0.0000	0.21226	0.0000
1910	Target_PXDb3	0.0000	0.21916	0.0000
1911	Target_PXDb3	0.0000	0.30814	0.0000
1912	Target_PXDb3	0.0000	0.23590	0.0000
1913	Target_PXDb3	0.0000	0.24253	0.0000
1914	Target_PXDb3	0.0000	0.26872	0.0000
1915	Target_PXDb3	0.88680E-18	0.16207	0.54719E-15
1916	Target_PXDb3	0.0000	0.31982	0.0000
1917	Target_PXDb3	0.0000	0.09766	0.0000
1918	Target_PXDb3	0.0000	0.15630	0.0000
1919	Target_PXDb3	0.0000	0.21031	0.0000
1920	Target_PXDb3	0.0000	0.23338	0.0000
1921	Target_PXDb3	0.0000	0.08608	0.0000
1922	Target_PXDb3	0.0000	0.04805	0.0000
1923	Target_PXDb3	0.0000	0.10772	0.0000

1924	Target_PXDb3	0.0000	0.11870	0.00000
1925	Target_PXDb3	0.0000	0.08762	0.0000
1926	Target_PXDb3	0.0000	0.13542	0.0000

* Intermediate target output for compound M2b3

* yr	Identifier	AmaLea (kg/ha)	FlvLea (m)	ConLea (ug/L)
1907	Target_M2b3	0.84529E-08	0.24317	0.34761E-05
1908	Target_M2b3	-0.88067E-09	0.11081	0.0000
1909	Target_M2b3	0.19041E-08	0.21226	0.89706E-06
1910	Target_M2b3	0.19736E-08	0.21916	0.90051E-06
1911	Target_M2b3	0.13482E-08	0.30814	0.43752E-06
1912	Target_M2b3	0.73872E-09	0.23590	0.31315E-06
1913	Target_M2b3	0.69906E-09	0.24253	0.28824E-06
1914	Target_M2b3	0.22104E-09	0.26872	0.82256E-07
1915	Target_M2b3	0.75770E-07	0.16207	0.46753E-04
1916	Target_M2b3	0.39376E-07	0.31982	0.12312E-04
1917	Target_M2b3	0.13231E-08	0.09766	0.13548E-05
1918	Target_M2b3	0.26391E-08	0.15630	0.16884E-05
1919	Target_M2b3	0.22696E-08	0.21031	0.10792E-05
1920	Target_M2b3	0.45341E-09	0.23338	0.19428E-06
1921	Target_M2b3	0.53546E-10	0.08608	0.62207E-07
1922	Target_M2b3	-0.17577E-10	0.04805	0.0000
1923	Target_M2b3	-0.23307E-11	0.10772	0.0000
1924	Target_M2b3	0.44311E-09	0.11870	0.37332E-06
1925	Target_M2b3	0.15528E-09	0.08762	0.17721E-06
1926	Target_M2b3	0.50634E-09	0.13542	0.37390E-06

* Intermediate target output for compound M3b3

* yr	Identifier	AmaLea (kg/ha)	FlvLea (m)	ConLea (ug/L)
1907	Target_M3b3	0.11822E-03	0.24317	0.48614E-01
1908	Target_M3b3	0.91881E-04	0.11081	0.82914E-01
1909	Target_M3b3	0.13322E-03	0.21226	0.62762E-01
1910	Target_M3b3	0.25224E-03	0.21916	0.11509
1911	Target_M3b3	0.33971E-03	0.30814	0.11025
1912	Target_M3b3	0.26112E-03	0.23590	0.11069
1913	Target_M3b3	0.22062E-03	0.24253	0.90968E-01
1914	Target_M3b3	0.22025E-03	0.26872	0.81964E-01
1915	Target_M3b3	0.14235E-03	0.16207	0.87837E-01
1916	Target_M3b3	0.44699E-03	0.31982	0.13976
1917	Target_M3b3	0.23403E-03	0.09766	0.23964
1918	Target_M3b3	0.19653E-03	0.15630	0.12574
1919	Target_M3b3	0.19263E-03	0.21031	0.91595E-01
1920	Target_M3b3	0.37880E-03	0.23338	0.16231
1921	Target_M3b3	0.55057E-04	0.08608	0.63963E-01
1922	Target_M3b3	0.65900E-05	0.04805	0.13716E-01
1923	Target_M3b3	0.22806E-04	0.10772	0.21172E-01
1924	Target_M3b3	0.13590E-04	0.11870	0.11450E-01
1925	Target_M3b3	0.28487E-04	0.08762	0.32511E-01
1926	Target_M3b3	0.65163E-04	0.13542	0.48118E-01

* Intermediate target output for compound M5b3

* yr	Identifier	AmaLea (kg/ha)	FlvLea (m)	ConLea (ug/L)
1907	Target_M5b3	0.16603E-03	0.24317	0.68277E-01
1908	Target_M5b3	0.78546E-04	0.11081	0.70881E-01
1909	Target_M5b3	0.14059E-03	0.21226	0.66235E-01
1910	Target_M5b3	0.28950E-03	0.21916	0.13210
1911	Target_M5b3	0.31687E-03	0.30814	0.10284
1912	Target_M5b3	0.26799E-03	0.23590	0.11361
1913	Target_M5b3	0.24209E-03	0.24253	0.99821E-01
1914	Target_M5b3	0.24843E-03	0.26872	0.92449E-01
1915	Target_M5b3	0.14711E-03	0.16207	0.90769E-01
1916	Target_M5b3	0.46139E-03	0.31982	0.14427

1917	Target_M5b3	0.17658E-03	0.09766	0.18082
1918	Target_M5b3	0.14193E-03	0.15630	0.90803E-01
1919	Target_M5b3	0.21439E-03	0.21031	0.10194
1920	Target_M5b3	0.34614E-03	0.23338	0.14831
1921	Target_M5b3	0.44448E-04	0.08608	0.51637E-01
1922	Target_M5b3	0.70678E-05	0.04805	0.14710E-01
1923	Target_M5b3	0.24022E-04	0.10772	0.22300E-01
1924	Target_M5b3	0.31690E-04	0.11870	0.26698E-01
1925	Target_M5b3	0.51118E-04	0.08762	0.58338E-01
1926	Target_M5b3	0.88616E-04	0.13542	0.65437E-01

* Intermediate target output for compound M6b3

* yr	Identifier	AmaLea (kg/ha)	FlvLea (m)	ConLea (ug/L)
1907	Target_M6b3	0.60537E-03	0.24317	0.24895
1908	Target_M6b3	0.30363E-03	0.11081	0.27400
1909	Target_M6b3	0.52600E-03	0.21226	0.24781
1910	Target_M6b3	0.65989E-03	0.21916	0.30110
1911	Target_M6b3	0.80743E-03	0.30814	0.26204
1912	Target_M6b3	0.66765E-03	0.23590	0.28303
1913	Target_M6b3	0.61447E-03	0.24253	0.25336
1914	Target_M6b3	0.70620E-03	0.26872	0.26280
1915	Target_M6b3	0.43875E-03	0.16207	0.27072
1916	Target_M6b3	0.89689E-03	0.31982	0.28044
1917	Target_M6b3	0.36471E-03	0.09766	0.37346
1918	Target_M6b3	0.40972E-03	0.15630	0.26213
1919	Target_M6b3	0.59645E-03	0.21031	0.28360
1920	Target_M6b3	0.86975E-03	0.23338	0.37267
1921	Target_M6b3	0.17706E-03	0.08608	0.20570
1922	Target_M6b3	0.68576E-04	0.04805	0.14272
1923	Target_M6b3	0.17102E-03	0.10772	0.15876
1924	Target_M6b3	0.17996E-03	0.11870	0.15161
1925	Target_M6b3	0.20252E-03	0.08762	0.23112
1926	Target_M6b3	0.35449E-03	0.13542	0.26177

* Intermediate target output for compound M4b3

* yr	Identifier	AmaLea (kg/ha)	FlvLea (m)	ConLea (ug/L)
1907	Target_M4b3	0.45551E-04	0.24317	0.18732E-01
1908	Target_M4b3	0.27043E-04	0.11081	0.24404E-01
1909	Target_M4b3	0.42274E-04	0.21226	0.19916E-01
1910	Target_M4b3	0.97593E-04	0.21916	0.44530E-01
1911	Target_M4b3	0.11331E-03	0.30814	0.36772E-01
1912	Target_M4b3	0.90984E-04	0.23590	0.38569E-01
1913	Target_M4b3	0.74561E-04	0.24253	0.30743E-01
1914	Target_M4b3	0.75110E-04	0.26872	0.27951E-01
1915	Target_M4b3	0.50117E-04	0.16207	0.30924E-01
1916	Target_M4b3	0.16134E-03	0.31982	0.50446E-01
1917	Target_M4b3	0.75071E-04	0.09766	0.76873E-01
1918	Target_M4b3	0.57563E-04	0.15630	0.36828E-01
1919	Target_M4b3	0.64866E-04	0.21031	0.30843E-01
1920	Target_M4b3	0.13228E-03	0.23338	0.56679E-01
1921	Target_M4b3	0.15574E-04	0.08608	0.18093E-01
1922	Target_M4b3	0.22115E-05	0.04805	0.46027E-02
1923	Target_M4b3	0.70418E-05	0.10772	0.65372E-02
1924	Target_M4b3	0.61803E-05	0.11870	0.52069E-02
1925	Target_M4b3	0.11115E-04	0.08762	0.12685E-01
1926	Target_M4b3	0.22623E-04	0.13542	0.16706E-01

* Intermediate target output for compound M52b3

* yr	Identifier	AmaLea (kg/ha)	FlvLea (m)	ConLea (ug/L)
1907	Target_M52b3	0.14619E-09	0.24317	0.60119E-07
1908	Target_M52b3	0.47464E-10	0.11081	0.42832E-07
1909	Target_M52b3	0.59272E-11	0.21226	0.27924E-08

1910	Target_M52b3	0.99619E-10	0.21916	0.45455E-07
1911	Target_M52b3	0.62187E-11	0.30814	0.20182E-08
1912	Target_M52b3	0.45221E-11	0.23590	0.19170E-08
1913	Target_M52b3	0.61498E-11	0.24253	0.25357E-08
1914	Target_M52b3	0.14900E-11	0.26872	0.55450E-09
1915	Target_M52b3	0.74977E-08	0.16207	0.46264E-05
1916	Target_M52b3	0.87232E-08	0.31982	0.27276E-05
1917	Target_M52b3	0.53071E-09	0.09766	0.54345E-06
1918	Target_M52b3	-0.56897E-09	0.15630	0.0000
1919	Target_M52b3	-0.40763E-09	0.21031	0.0000
1920	Target_M52b3	-0.13533E-09	0.23338	0.0000
1921	Target_M52b3	-0.16906E-09	0.08608	0.0000
1922	Target_M52b3	-0.13781E-09	0.04805	0.0000
1923	Target_M52b3	-0.11026E-09	0.10772	0.0000
1924	Target_M52b3	-0.86799E-10	0.11870	0.0000
1925	Target_M52b3	-0.65357E-10	0.08762	0.0000
1926	Target_M52b3	-0.55015E-10	0.13542	0.0000

* Intermediate target output for compound M1b3

* yr	Identifier	AmaLea (kg/ha)	FlvLea (m)	ConLea (ug/L)
1907	Target_M1b3	0.99643E-04	0.24317	0.40976E-01
1908	Target_M1b3	0.47813E-04	0.11081	0.43147E-01
1909	Target_M1b3	0.84244E-04	0.21226	0.39689E-01
1910	Target_M1b3	0.18811E-03	0.21916	0.85833E-01
1911	Target_M1b3	0.20835E-03	0.30814	0.67616E-01
1912	Target_M1b3	0.17285E-03	0.23590	0.73276E-01
1913	Target_M1b3	0.14878E-03	0.24253	0.61346E-01
1914	Target_M1b3	0.15138E-03	0.26872	0.56335E-01
1915	Target_M1b3	0.94947E-04	0.16207	0.58585E-01
1916	Target_M1b3	0.30633E-03	0.31982	0.95782E-01
1917	Target_M1b3	0.12367E-03	0.09766	0.12664
1918	Target_M1b3	0.95208E-04	0.15630	0.60913E-01
1919	Target_M1b3	0.12997E-03	0.21031	0.61798E-01
1920	Target_M1b3	0.23247E-03	0.23338	0.99609E-01
1921	Target_M1b3	0.27105E-04	0.08608	0.31489E-01
1922	Target_M1b3	0.39435E-05	0.04805	0.82074E-02
1923	Target_M1b3	0.13674E-04	0.10772	0.12694E-01
1924	Target_M1b3	0.17042E-04	0.11870	0.14358E-01
1925	Target_M1b3	0.27251E-04	0.08762	0.31100E-01
1926	Target_M1b3	0.50043E-04	0.13542	0.36953E-01

* Leaching summary per summary period:

* Rank	Identifier	Percent (%)	DateSta	DateEnd	ConLeaTgt (ug/L)	Year (a)
1	ConLea_PXDb3	2.50	01-Jan-1907	31-Dec-1907	0.00	1907
2	ConLea_PXDb3	7.50	01-Jan-1908	31-Dec-1908	0.00	1908
3	ConLea_PXDb3	12.50	01-Jan-1909	31-Dec-1909	0.00	1909
4	ConLea_PXDb3	17.50	01-Jan-1910	31-Dec-1910	0.00	1910
5	ConLea_PXDb3	22.50	01-Jan-1911	31-Dec-1911	0.00	1911
6	ConLea_PXDb3	27.50	01-Jan-1912	31-Dec-1912	0.00	1912
7	ConLea_PXDb3	32.50	01-Jan-1913	31-Dec-1913	0.00	1913
8	ConLea_PXDb3	37.50	01-Jan-1914	31-Dec-1914	0.00	1914
9	ConLea_PXDb3	42.50	01-Jan-1916	31-Dec-1916	0.00	1916
10	ConLea_PXDb3	47.50	01-Jan-1917	31-Dec-1917	0.00	1917
11	ConLea_PXDb3	52.50	01-Jan-1918	31-Dec-1918	0.00	1918
12	ConLea_PXDb3	57.50	01-Jan-1919	31-Dec-1919	0.00	1919
13	ConLea_PXDb3	62.50	01-Jan-1920	31-Dec-1920	0.00	1920
14	ConLea_PXDb3	67.50	01-Jan-1921	31-Dec-1921	0.00	1921
15	ConLea_PXDb3	72.50	01-Jan-1922	31-Dec-1922	0.00	1922
16	ConLea_PXDb3	77.50	01-Jan-1923	31-Dec-1923	0.00	1923
17	ConLea_PXDb3	82.50	01-Jan-1924	31-Dec-1924	0.00	1924
18	ConLea_PXDb3	87.50	01-Jan-1925	31-Dec-1925	0.00	1925
19	ConLea_PXDb3	92.50	01-Jan-1926	31-Dec-1926	0.00	1926
20	ConLea_PXDb3	97.50	01-Jan-1915	31-Dec-1915	0.5472E-15	1915

* Rank	Identifier	Percent	DateSta	DateEnd	ConLeaTgt	Year
* (-)		(%)			(ug/L)	(a)
1	ConLea_M2b3	2.50	01-Jan-1908	31-Dec-1908	0.00	1908
2	ConLea_M2b3	7.50	01-Jan-1922	31-Dec-1922	0.00	1922
3	ConLea_M2b3	12.50	01-Jan-1923	31-Dec-1923	0.00	1923
4	ConLea_M2b3	17.50	01-Jan-1921	31-Dec-1921	0.6221E-07	1921
5	ConLea_M2b3	22.50	01-Jan-1914	31-Dec-1914	0.8226E-07	1914
6	ConLea_M2b3	27.50	01-Jan-1925	31-Dec-1925	0.1772E-06	1925
7	ConLea_M2b3	32.50	01-Jan-1920	31-Dec-1920	0.1943E-06	1920
8	ConLea_M2b3	37.50	01-Jan-1913	31-Dec-1913	0.2882E-06	1913
9	ConLea_M2b3	42.50	01-Jan-1912	31-Dec-1912	0.3132E-06	1912
10	ConLea_M2b3	47.50	01-Jan-1924	31-Dec-1924	0.3733E-06	1924
11	ConLea_M2b3	52.50	01-Jan-1926	31-Dec-1926	0.3739E-06	1926
12	ConLea_M2b3	57.50	01-Jan-1911	31-Dec-1911	0.4375E-06	1911
13	ConLea_M2b3	62.50	01-Jan-1909	31-Dec-1909	0.8971E-06	1909
14	ConLea_M2b3	67.50	01-Jan-1910	31-Dec-1910	0.9005E-06	1910
15	ConLea_M2b3	72.50	01-Jan-1919	31-Dec-1919	0.1079E-05	1919
16	ConLea_M2b3	77.50	01-Jan-1917	31-Dec-1917	0.1355E-05	1917
17	ConLea_M2b3	82.50	01-Jan-1918	31-Dec-1918	0.1688E-05	1918
18	ConLea_M2b3	87.50	01-Jan-1907	31-Dec-1907	0.3476E-05	1907
19	ConLea_M2b3	92.50	01-Jan-1916	31-Dec-1916	0.1231E-04	1916
20	ConLea_M2b3	97.50	01-Jan-1915	31-Dec-1915	0.4675E-04	1915

* Rank	Identifier	Percent	DateSta	DateEnd	ConLeaTgt	Year
* (-)		(%)			(ug/L)	(a)
1	ConLea_M3b3	2.50	01-Jan-1924	31-Dec-1924	0.1145E-01	1924
2	ConLea_M3b3	7.50	01-Jan-1922	31-Dec-1922	0.1372E-01	1922
3	ConLea_M3b3	12.50	01-Jan-1923	31-Dec-1923	0.2117E-01	1923
4	ConLea_M3b3	17.50	01-Jan-1925	31-Dec-1925	0.3251E-01	1925
5	ConLea_M3b3	22.50	01-Jan-1926	31-Dec-1926	0.4812E-01	1926
6	ConLea_M3b3	27.50	01-Jan-1907	31-Dec-1907	0.4861E-01	1907
7	ConLea_M3b3	32.50	01-Jan-1909	31-Dec-1909	0.6276E-01	1909
8	ConLea_M3b3	37.50	01-Jan-1921	31-Dec-1921	0.6396E-01	1921
9	ConLea_M3b3	42.50	01-Jan-1914	31-Dec-1914	0.8196E-01	1914
10	ConLea_M3b3	47.50	01-Jan-1908	31-Dec-1908	0.8291E-01	1908
11	ConLea_M3b3	52.50	01-Jan-1915	31-Dec-1915	0.8784E-01	1915
12	ConLea_M3b3	57.50	01-Jan-1913	31-Dec-1913	0.9097E-01	1913
13	ConLea_M3b3	62.50	01-Jan-1919	31-Dec-1919	0.9159E-01	1919
14	ConLea_M3b3	67.50	01-Jan-1911	31-Dec-1911	0.1102E+00	1911
15	ConLea_M3b3	72.50	01-Jan-1912	31-Dec-1912	0.1107E+00	1912
16	ConLea_M3b3	77.50	01-Jan-1910	31-Dec-1910	0.1151E+00	1910
17	ConLea_M3b3	82.50	01-Jan-1918	31-Dec-1918	0.1257E+00	1918
18	ConLea_M3b3	87.50	01-Jan-1916	31-Dec-1916	0.1398E+00	1916
19	ConLea_M3b3	92.50	01-Jan-1920	31-Dec-1920	0.1623E+00	1920
20	ConLea_M3b3	97.50	01-Jan-1917	31-Dec-1917	0.2396E+00	1917

* Rank	Identifier	Percent	DateSta	DateEnd	ConLeaTgt	Year
* (-)		(%)			(ug/L)	(a)
1	ConLea_M5b3	2.50	01-Jan-1922	31-Dec-1922	0.1471E-01	1922
2	ConLea_M5b3	7.50	01-Jan-1923	31-Dec-1923	0.2230E-01	1923
3	ConLea_M5b3	12.50	01-Jan-1924	31-Dec-1924	0.2670E-01	1924
4	ConLea_M5b3	17.50	01-Jan-1921	31-Dec-1921	0.5164E-01	1921
5	ConLea_M5b3	22.50	01-Jan-1925	31-Dec-1925	0.5834E-01	1925
6	ConLea_M5b3	27.50	01-Jan-1926	31-Dec-1926	0.6544E-01	1926
7	ConLea_M5b3	32.50	01-Jan-1909	31-Dec-1909	0.6624E-01	1909
8	ConLea_M5b3	37.50	01-Jan-1907	31-Dec-1907	0.6828E-01	1907
9	ConLea_M5b3	42.50	01-Jan-1908	31-Dec-1908	0.7088E-01	1908
10	ConLea_M5b3	47.50	01-Jan-1915	31-Dec-1915	0.9077E-01	1915
11	ConLea_M5b3	52.50	01-Jan-1918	31-Dec-1918	0.9080E-01	1918
12	ConLea_M5b3	57.50	01-Jan-1914	31-Dec-1914	0.9245E-01	1914
13	ConLea_M5b3	62.50	01-Jan-1913	31-Dec-1913	0.9982E-01	1913
14	ConLea_M5b3	67.50	01-Jan-1919	31-Dec-1919	0.1019E+00	1919
15	ConLea_M5b3	72.50	01-Jan-1911	31-Dec-1911	0.1028E+00	1911
16	ConLea_M5b3	77.50	01-Jan-1912	31-Dec-1912	0.1136E+00	1912
17	ConLea_M5b3	82.50	01-Jan-1910	31-Dec-1910	0.1321E+00	1910
18	ConLea_M5b3	87.50	01-Jan-1916	31-Dec-1916	0.1443E+00	1916
19	ConLea_M5b3	92.50	01-Jan-1920	31-Dec-1920	0.1483E+00	1920
20	ConLea_M5b3	97.50	01-Jan-1917	31-Dec-1917	0.1808E+00	1917

* Rank	Identifier	Percent	DateSta	DateEnd	ConLeaTgt	Year
* (-)		(%)			(ug/L)	(a)

1	ConLea_M6b3	2.50	01-Jan-1922	31-Dec-1922	0.1427E+00	1922
2	ConLea_M6b3	7.50	01-Jan-1924	31-Dec-1924	0.1516E+00	1924
3	ConLea_M6b3	12.50	01-Jan-1923	31-Dec-1923	0.1588E+00	1923
4	ConLea_M6b3	17.50	01-Jan-1921	31-Dec-1921	0.2057E+00	1921
5	ConLea_M6b3	22.50	01-Jan-1925	31-Dec-1925	0.2311E+00	1925
6	ConLea_M6b3	27.50	01-Jan-1909	31-Dec-1909	0.2478E+00	1909
7	ConLea_M6b3	32.50	01-Jan-1907	31-Dec-1907	0.2489E+00	1907
8	ConLea_M6b3	37.50	01-Jan-1913	31-Dec-1913	0.2534E+00	1913
9	ConLea_M6b3	42.50	01-Jan-1926	31-Dec-1926	0.2618E+00	1926
10	ConLea_M6b3	47.50	01-Jan-1911	31-Dec-1911	0.2620E+00	1911
11	ConLea_M6b3	52.50	01-Jan-1918	31-Dec-1918	0.2621E+00	1918
12	ConLea_M6b3	57.50	01-Jan-1914	31-Dec-1914	0.2628E+00	1914
13	ConLea_M6b3	62.50	01-Jan-1915	31-Dec-1915	0.2707E+00	1915
14	ConLea_M6b3	67.50	01-Jan-1908	31-Dec-1908	0.2740E+00	1908
15	ConLea_M6b3	72.50	01-Jan-1916	31-Dec-1916	0.2804E+00	1916
16	ConLea_M6b3	77.50	01-Jan-1912	31-Dec-1912	0.2830E+00	1912
17	ConLea_M6b3	82.50	01-Jan-1919	31-Dec-1919	0.2836E+00	1919
18	ConLea_M6b3	87.50	01-Jan-1910	31-Dec-1910	0.3011E+00	1910
19	ConLea_M6b3	92.50	01-Jan-1920	31-Dec-1920	0.3727E+00	1920
20	ConLea_M6b3	97.50	01-Jan-1917	31-Dec-1917	0.3735E+00	1917
* Rank	Identifier	Percent	DateSta	DateEnd	ConLeaTgt	Year
* (-)		(%)			(ug/L)	(a)
1	ConLea_M4b3	2.50	01-Jan-1922	31-Dec-1922	0.4603E-02	1922
2	ConLea_M4b3	7.50	01-Jan-1924	31-Dec-1924	0.5207E-02	1924
3	ConLea_M4b3	12.50	01-Jan-1923	31-Dec-1923	0.6537E-02	1923
4	ConLea_M4b3	17.50	01-Jan-1925	31-Dec-1925	0.1268E-01	1925
5	ConLea_M4b3	22.50	01-Jan-1926	31-Dec-1926	0.1671E-01	1926
6	ConLea_M4b3	27.50	01-Jan-1921	31-Dec-1921	0.1809E-01	1921
7	ConLea_M4b3	32.50	01-Jan-1907	31-Dec-1907	0.1873E-01	1907
8	ConLea_M4b3	37.50	01-Jan-1909	31-Dec-1909	0.1992E-01	1909
9	ConLea_M4b3	42.50	01-Jan-1908	31-Dec-1908	0.2440E-01	1908
10	ConLea_M4b3	47.50	01-Jan-1914	31-Dec-1914	0.2795E-01	1914
11	ConLea_M4b3	52.50	01-Jan-1913	31-Dec-1913	0.3074E-01	1913
12	ConLea_M4b3	57.50	01-Jan-1919	31-Dec-1919	0.3084E-01	1919
13	ConLea_M4b3	62.50	01-Jan-1915	31-Dec-1915	0.3092E-01	1915
14	ConLea_M4b3	67.50	01-Jan-1911	31-Dec-1911	0.3677E-01	1911
15	ConLea_M4b3	72.50	01-Jan-1918	31-Dec-1918	0.3683E-01	1918
16	ConLea_M4b3	77.50	01-Jan-1912	31-Dec-1912	0.3857E-01	1912
17	ConLea_M4b3	82.50	01-Jan-1910	31-Dec-1910	0.4453E-01	1910
18	ConLea_M4b3	87.50	01-Jan-1916	31-Dec-1916	0.5045E-01	1916
19	ConLea_M4b3	92.50	01-Jan-1920	31-Dec-1920	0.5668E-01	1920
20	ConLea_M4b3	97.50	01-Jan-1917	31-Dec-1917	0.7687E-01	1917
* Rank	Identifier	Percent	DateSta	DateEnd	ConLeaTgt	Year
* (-)		(%)			(ug/L)	(a)
1	ConLea_M52b3	2.50	01-Jan-1918	31-Dec-1918	0.00	1918
2	ConLea_M52b3	7.50	01-Jan-1919	31-Dec-1919	0.00	1919
3	ConLea_M52b3	12.50	01-Jan-1920	31-Dec-1920	0.00	1920
4	ConLea_M52b3	17.50	01-Jan-1921	31-Dec-1921	0.00	1921
5	ConLea_M52b3	22.50	01-Jan-1922	31-Dec-1922	0.00	1922
6	ConLea_M52b3	27.50	01-Jan-1923	31-Dec-1923	0.00	1923
7	ConLea_M52b3	32.50	01-Jan-1924	31-Dec-1924	0.00	1924
8	ConLea_M52b3	37.50	01-Jan-1925	31-Dec-1925	0.00	1925
9	ConLea_M52b3	42.50	01-Jan-1926	31-Dec-1926	0.00	1926
10	ConLea_M52b3	47.50	01-Jan-1914	31-Dec-1914	0.5545E-09	1914
11	ConLea_M52b3	52.50	01-Jan-1912	31-Dec-1912	0.1917E-08	1912
12	ConLea_M52b3	57.50	01-Jan-1911	31-Dec-1911	0.2018E-08	1911
13	ConLea_M52b3	62.50	01-Jan-1913	31-Dec-1913	0.2536E-08	1913
14	ConLea_M52b3	67.50	01-Jan-1909	31-Dec-1909	0.2792E-08	1909
15	ConLea_M52b3	72.50	01-Jan-1908	31-Dec-1908	0.4283E-07	1908
16	ConLea_M52b3	77.50	01-Jan-1910	31-Dec-1910	0.4545E-07	1910
17	ConLea_M52b3	82.50	01-Jan-1907	31-Dec-1907	0.6012E-07	1907
18	ConLea_M52b3	87.50	01-Jan-1917	31-Dec-1917	0.5434E-06	1917
19	ConLea_M52b3	92.50	01-Jan-1916	31-Dec-1916	0.2728E-05	1916
20	ConLea_M52b3	97.50	01-Jan-1915	31-Dec-1915	0.4626E-05	1915
* Rank	Identifier	Percent	DateSta	DateEnd	ConLeaTgt	Year
* (-)		(%)			(ug/L)	(a)
1	ConLea_M1b3	2.50	01-Jan-1922	31-Dec-1922	0.8207E-02	1922
2	ConLea_M1b3	7.50	01-Jan-1923	31-Dec-1923	0.1269E-01	1923

3	ConLea_M1b3	12.50	01-Jan-1924	31-Dec-1924	0.1436E-01	1924
4	ConLea_M1b3	17.50	01-Jan-1925	31-Dec-1925	0.3110E-01	1925
5	ConLea_M1b3	22.50	01-Jan-1921	31-Dec-1921	0.3149E-01	1921
6	ConLea_M1b3	27.50	01-Jan-1926	31-Dec-1926	0.3695E-01	1926
7	ConLea_M1b3	32.50	01-Jan-1909	31-Dec-1909	0.3969E-01	1909
8	ConLea_M1b3	37.50	01-Jan-1907	31-Dec-1907	0.4098E-01	1907
9	ConLea_M1b3	42.50	01-Jan-1908	31-Dec-1908	0.4315E-01	1908
10	ConLea_M1b3	47.50	01-Jan-1914	31-Dec-1914	0.5633E-01	1914
11	ConLea_M1b3	52.50	01-Jan-1915	31-Dec-1915	0.5859E-01	1915
12	ConLea_M1b3	57.50	01-Jan-1918	31-Dec-1918	0.6091E-01	1918
13	ConLea_M1b3	62.50	01-Jan-1913	31-Dec-1913	0.6135E-01	1913
14	ConLea_M1b3	67.50	01-Jan-1919	31-Dec-1919	0.6180E-01	1919
15	ConLea_M1b3	72.50	01-Jan-1911	31-Dec-1911	0.6762E-01	1911
16	ConLea_M1b3	77.50	01-Jan-1912	31-Dec-1912	0.7328E-01	1912
17	ConLea_M1b3	82.50	01-Jan-1910	31-Dec-1910	0.8583E-01	1910
18	ConLea_M1b3	87.50	01-Jan-1916	31-Dec-1916	0.9578E-01	1916
19	ConLea_M1b3	92.50	01-Jan-1920	31-Dec-1920	0.9961E-01	1920
20	ConLea_M1b3	97.50	01-Jan-1917	31-Dec-1917	0.1266E+00	1917

* -----

* PEARL REPORT: Leaching

* Start date : 01-Jan-1901

* End date : 31-Dec-1926

* Target depth : 1.00 m

* Annual application to the soil surface at 31-Mar; dosage = 0.0360 kg.ha-1

* Leaching summary for compound PXDb3

* Molar mass (g.mol-1) : 400.5

* Saturated vapour pressure (Pa) : 0.00 ; measured at (C) 20.0

* Solubility in water (mg.L-1) : 200. ; measured at (C) 25.0

* Half-life (d) in soil : 0.2; measured at (C) 20.0

* Kom (coef. for sorption on soil organic matter) (L.kg-1) : 76.6

* KF (overall sorption coefficient of the soil target layer) (L.kg-1) : 1.01

* Freundlich exponent (-) : 1.06

* Plant uptake factor (-) : 0.00

* -----

* Period	From	To	Water percolated	Substance
leached	Average substance			
* number			below target depth (mm)	below target depth
(kg/ha)	concentration in water			
at target depth (ug/L)				
1	01-Jan-1907	31-Dec-1907	243.172	
0.0000000			0.000	
2	01-Jan-1908	31-Dec-1908	110.815	
0.0000000			0.000	
3	01-Jan-1909	31-Dec-1909	212.263	
0.0000000			0.000	
4	01-Jan-1910	31-Dec-1910	219.163	
0.0000000			0.000	
5	01-Jan-1911	31-Dec-1911	308.137	
0.0000000			0.000	
6	01-Jan-1912	31-Dec-1912	235.896	
0.0000000			0.000	
7	01-Jan-1913	31-Dec-1913	242.528	
0.0000000			0.000	
8	01-Jan-1914	31-Dec-1914	268.719	
0.0000000			0.000	
9	01-Jan-1915	31-Dec-1915	162.066	
0.0000000			0.000	
10	01-Jan-1916	31-Dec-1916	319.817	
0.0000000			0.000	
11	01-Jan-1917	31-Dec-1917	97.656	
0.0000000			0.000	
12	01-Jan-1918	31-Dec-1918	156.302	
0.0000000			0.000	

13	01-Jan-1919	31-Dec-1919		210.310
0.0000000			0.000	
14	01-Jan-1920	31-Dec-1920		233.383
0.0000000			0.000	
15	01-Jan-1921	31-Dec-1921		86.077
0.0000000			0.000	
16	01-Jan-1922	31-Dec-1922		48.048
0.0000000			0.000	
17	01-Jan-1923	31-Dec-1923		107.720
0.0000000			0.000	
18	01-Jan-1924	31-Dec-1924		118.696
0.0000000			0.000	
19	01-Jan-1925	31-Dec-1925		87.624
0.0000000			0.000	
20	01-Jan-1926	31-Dec-1926		135.422
0.0000000			0.000	

* The average concentration of PXDb3 closest to the 80th percentile is 0.000000 ug/L

* Leaching summary for compound M2b3

* Molar mass (g.mol ⁻¹)	:	316.4
* Saturated vapour pressure (Pa)	:	0.00 ; measured at (C) 20.0
* Solubility in water (mg.L ⁻¹)	:	0.380E+06; measured at (C) 25.0
* Half-life (d) in soil	:	3.4; measured at (C) 20.0
* Kom (coef. for sorption on soil organic matter) (L.kg ⁻¹)	:	0.9
* KF (overall sorption coefficient of the soil target layer) (L.kg ⁻¹)	:	0.118E-01
* Freundlich exponent (-)	:	1.01
* Plant uptake factor (-)	:	0.00

* Period leached * number (kg/ha)	From Average concentration in water	To Substance below target depth (mm)	Water percolated below target depth (mm)	Substance below target depth
at target depth (ug/L)				

1	01-Jan-1907	31-Dec-1907		243.172
0.0000000			0.000	
2	01-Jan-1908	31-Dec-1908		110.815
0.0000000			0.000	
3	01-Jan-1909	31-Dec-1909		212.263
0.0000000			0.000	
4	01-Jan-1910	31-Dec-1910		219.163
0.0000000			0.000	
5	01-Jan-1911	31-Dec-1911		308.137
0.0000000			0.000	
6	01-Jan-1912	31-Dec-1912		235.896
0.0000000			0.000	
7	01-Jan-1913	31-Dec-1913		242.528
0.0000000			0.000	
8	01-Jan-1914	31-Dec-1914		268.719
0.0000000			0.000	
9	01-Jan-1915	31-Dec-1915		162.066
0.0000001			0.000	
10	01-Jan-1916	31-Dec-1916		319.817
0.0000000			0.000	
11	01-Jan-1917	31-Dec-1917		97.656
0.0000000			0.000	
12	01-Jan-1918	31-Dec-1918		156.302
0.0000000			0.000	
13	01-Jan-1919	31-Dec-1919		210.310
0.0000000			0.000	
14	01-Jan-1920	31-Dec-1920		233.383
0.0000000			0.000	
15	01-Jan-1921	31-Dec-1921		86.077
0.0000000			0.000	
16	01-Jan-1922	31-Dec-1922		48.048
0.0000000			0.000	

17	01-Jan-1923	31-Dec-1923	107.720	-
0.0000000		0.000		
18	01-Jan-1924	31-Dec-1924	118.696	
0.0000000		0.000		
19	01-Jan-1925	31-Dec-1925	87.624	
0.0000000		0.000		
20	01-Jan-1926	31-Dec-1926	135.422	
0.0000000		0.000		

* The average concentration of M2b3 closest to the 80th percentile is 0.000002 ug/L

* Leaching summary for compound M3b3

* Molar mass (g.mol ⁻¹)	:	332.4
* Saturated vapour pressure (Pa)	:	0.00 ; measured at (C) 20.0
* Solubility in water (mg.L ⁻¹)	:	370. ; measured at (C) 25.0
* Half-life (d) in soil	:	39.6; measured at (C) 20.0
* Kom (coef. for sorption on soil organic matter) (L.kg ⁻¹)	:	18.6
* KF (overall sorption coefficient of the soil target layer) (L.kg ⁻¹)	:	0.246
* Freundlich exponent (-)	:	0.96
* Plant uptake factor (-)	:	0.78

* Period leached * number (kg/ha)	From Average concentration in water	To Substance below target depth (mm)	Water percolated below target depth	Substance below target depth
at target depth (ug/L)				

1	01-Jan-1907	31-Dec-1907	243.172
0.0001182		0.049	
2	01-Jan-1908	31-Dec-1908	110.815
0.0000919		0.083	
3	01-Jan-1909	31-Dec-1909	212.263
0.0001332		0.063	
4	01-Jan-1910	31-Dec-1910	219.163
0.0002522		0.115	
5	01-Jan-1911	31-Dec-1911	308.137
0.0003397		0.110	
6	01-Jan-1912	31-Dec-1912	235.896
0.0002611		0.111	
7	01-Jan-1913	31-Dec-1913	242.528
0.0002206		0.091	
8	01-Jan-1914	31-Dec-1914	268.719
0.0002203		0.082	
9	01-Jan-1915	31-Dec-1915	162.066
0.0001424		0.088	
10	01-Jan-1916	31-Dec-1916	319.817
0.0004470		0.140	
11	01-Jan-1917	31-Dec-1917	97.656
0.0002340		0.240	
12	01-Jan-1918	31-Dec-1918	156.302
0.0001965		0.126	
13	01-Jan-1919	31-Dec-1919	210.310
0.0001926		0.092	
14	01-Jan-1920	31-Dec-1920	233.383
0.0003788		0.162	
15	01-Jan-1921	31-Dec-1921	86.077
0.0000551		0.064	
16	01-Jan-1922	31-Dec-1922	48.048
0.0000066		0.014	
17	01-Jan-1923	31-Dec-1923	107.720
0.0000228		0.021	
18	01-Jan-1924	31-Dec-1924	118.696
0.0000136		0.011	
19	01-Jan-1925	31-Dec-1925	87.624
0.0000285		0.033	
20	01-Jan-1926	31-Dec-1926	135.422
0.0000652		0.048	

* The average concentration of M3b3 closest to the 80th percentile is 0.120415 ug/L

* Leaching summary for compound M5b3

* Molar mass (g.mol⁻¹) : 376.4
 * Saturated vapour pressure (Pa) : 0.00 ; measured at (C) 20.0
 * Solubility in water (mg.L⁻¹) : 0.100E+04; measured at (C) 25.0
 * Half-life (d) in soil : 16.4; measured at (C) 20.0
 * Kom (coef. for sorption on soil organic matter) (L.kg⁻¹) : 1.8
 * KF (overall sorption coefficient of the soil target layer) (L.kg⁻¹) : 0.239E-01
 * Freundlich exponent (-) : 0.90
 * Plant uptake factor (-) : 0.00

* Period leached * number (kg/ha)	From Average concentration in water	To Substance at target depth (ug/L)	Water percolated below target depth (mm)	Substance below target depth
--	---	---	---	---------------------------------

1	01-Jan-1907	31-Dec-1907	243.172	
0.0001660		0.068		
2	01-Jan-1908	31-Dec-1908	110.815	
0.0000785		0.071		
3	01-Jan-1909	31-Dec-1909	212.263	
0.0001406		0.066		
4	01-Jan-1910	31-Dec-1910	219.163	
0.0002895		0.132		
5	01-Jan-1911	31-Dec-1911	308.137	
0.0003169		0.103		
6	01-Jan-1912	31-Dec-1912	235.896	
0.0002680		0.114		
7	01-Jan-1913	31-Dec-1913	242.528	
0.0002421		0.100		
8	01-Jan-1914	31-Dec-1914	268.719	
0.0002484		0.092		
9	01-Jan-1915	31-Dec-1915	162.066	
0.0001471		0.091		
10	01-Jan-1916	31-Dec-1916	319.817	
0.0004614		0.144		
11	01-Jan-1917	31-Dec-1917	97.656	
0.0001766		0.181		
12	01-Jan-1918	31-Dec-1918	156.302	
0.0001419		0.091		
13	01-Jan-1919	31-Dec-1919	210.310	
0.0002144		0.102		
14	01-Jan-1920	31-Dec-1920	233.383	
0.0003461		0.148		
15	01-Jan-1921	31-Dec-1921	86.077	
0.0000444		0.052		
16	01-Jan-1922	31-Dec-1922	48.048	
0.0000071		0.015		
17	01-Jan-1923	31-Dec-1923	107.720	
0.0000240		0.022		
18	01-Jan-1924	31-Dec-1924	118.696	
0.0000317		0.027		
19	01-Jan-1925	31-Dec-1925	87.624	
0.0000511		0.058		
20	01-Jan-1926	31-Dec-1926	135.422	
0.0000886		0.065		

* The average concentration of M5b3 closest to the 80th percentile is 0.122850 ug/L

* Leaching summary for compound M6b3

* Molar mass (g.mol⁻¹) : 360.4
 * Saturated vapour pressure (Pa) : 0.00 ; measured at (C) 20.0
 * Solubility in water (mg.L⁻¹) : 0.100E+04; measured at (C) 25.0
 * Half-life (d) in soil : 72.1; measured at (C) 20.0
 * Kom (coef. for sorption on soil organic matter) (L.kg⁻¹) : 7.8
 * KF (overall sorption coefficient of the soil target layer) (L.kg⁻¹) : 0.103

* Freundlich exponent (-) : 0.92
 * Plant uptake factor (-) : 0.00

* -----

* Period leached * number (kg/ha)	From Average substance concentration in water	To Substance below target depth (mm)	Water percolated below target depth (mm)	Substance below target depth
--	---	--	---	---------------------------------

at target depth (ug/L)

* -----

1	01-Jan-1907	31-Dec-1907		243.172
0.0006054			0.249	
2	01-Jan-1908	31-Dec-1908		110.815
0.0003036			0.274	
3	01-Jan-1909	31-Dec-1909		212.263
0.0005260			0.248	
4	01-Jan-1910	31-Dec-1910		219.163
0.0006599			0.301	
5	01-Jan-1911	31-Dec-1911		308.137
0.0008074			0.262	
6	01-Jan-1912	31-Dec-1912		235.896
0.0006676			0.283	
7	01-Jan-1913	31-Dec-1913		242.528
0.0006145			0.253	
8	01-Jan-1914	31-Dec-1914		268.719
0.0007062			0.263	
9	01-Jan-1915	31-Dec-1915		162.066
0.0004387			0.271	
10	01-Jan-1916	31-Dec-1916		319.817
0.0008969			0.280	
11	01-Jan-1917	31-Dec-1917		97.656
0.0003647			0.373	
12	01-Jan-1918	31-Dec-1918		156.302
0.0004097			0.262	
13	01-Jan-1919	31-Dec-1919		210.310
0.0005964			0.284	
14	01-Jan-1920	31-Dec-1920		233.383
0.0008697			0.373	
15	01-Jan-1921	31-Dec-1921		86.077
0.0001771			0.206	
16	01-Jan-1922	31-Dec-1922		48.048
0.0000686			0.143	
17	01-Jan-1923	31-Dec-1923		107.720
0.0001710			0.159	
18	01-Jan-1924	31-Dec-1924		118.696
0.0001800			0.152	
19	01-Jan-1925	31-Dec-1925		87.624
0.0002025			0.231	
20	01-Jan-1926	31-Dec-1926		135.422
0.0003545			0.262	

* The average concentration of M6b3 closest to the 80th percentile is 0.283315 ug/L

* Leaching summary for compound M4b3

* Molar mass (g.mol-1) : 362.4
 * Saturated vapour pressure (Pa) : 0.00 ; measured at (C) 20.0
 * Solubility in water (mg.L-1) : 0.100E+04; measured at (C) 25.0
 * Half-life (d) in soil : 7.5; measured at (C) 20.0
 * Kom (coef. for sorption on soil organic matter) (L.kg-1) : 4.6
 * KF (overall sorption coefficient of the soil target layer) (L.kg-1) : 0.610E-01
 * Freundlich exponent (-) : 0.92
 * Plant uptake factor (-) : 0.00

* -----

* Period leached * number (kg/ha)	From Average substance concentration in water	To Substance below target depth (mm)	Water percolated below target depth (mm)	Substance below target depth
--	---	--	---	---------------------------------

```

*
at target depth (ug/L)
* -----
1      01-Jan-1907 31-Dec-1907      243.172
0.0000456      0.019
2      01-Jan-1908 31-Dec-1908      110.815
0.0000270      0.024
3      01-Jan-1909 31-Dec-1909      212.263
0.0000423      0.020
4      01-Jan-1910 31-Dec-1910      219.163
0.0000976      0.045
5      01-Jan-1911 31-Dec-1911      308.137
0.0001133      0.037
6      01-Jan-1912 31-Dec-1912      235.896
0.0000910      0.039
7      01-Jan-1913 31-Dec-1913      242.528
0.0000746      0.031
8      01-Jan-1914 31-Dec-1914      268.719
0.0000751      0.028
9      01-Jan-1915 31-Dec-1915      162.066
0.0000501      0.031
10     01-Jan-1916 31-Dec-1916      319.817
0.0001613      0.050
11     01-Jan-1917 31-Dec-1917      97.656
0.0000751      0.077
12     01-Jan-1918 31-Dec-1918      156.302
0.0000576      0.037
13     01-Jan-1919 31-Dec-1919      210.310
0.0000649      0.031
14     01-Jan-1920 31-Dec-1920      233.383
0.0001323      0.057
15     01-Jan-1921 31-Dec-1921      86.077
0.0000156      0.018
16     01-Jan-1922 31-Dec-1922      48.048
0.0000022      0.005
17     01-Jan-1923 31-Dec-1923      107.720
0.0000070      0.007
18     01-Jan-1924 31-Dec-1924      118.696
0.0000062      0.005
19     01-Jan-1925 31-Dec-1925      87.624
0.0000111      0.013
20     01-Jan-1926 31-Dec-1926      135.422
0.0000226      0.017

* The average concentration of M4b3 closest to the 80th percentile is      0.041550 ug/L

* Leaching summary for compound M52b3
* Molar mass (g.mol-1)      :      360.3
* Saturated vapour pressure (Pa)      :      0.00      ; measured at (C) 20.0
* Solubility in water (mg.L-1)      :      0.100E+04; measured at (C) 25.0
* Half-life (d) in soil      :      8.4; measured at (C) 20.0
* Kom (coef. for sorption on soil organic matter) (L.kg-1) :      47.1
* KF (overall sorption coefficient of the soil target layer) (L.kg-1) :      0.622
* Freundlich exponent (-)      :      0.89
* Plant uptake factor (-)      :      0.00
* -----
* Period      From      To      Water percolated      Substance
leached      Average substance
* number      concentration in water      below target depth (mm)      below target depth
(kg/ha)
*
at target depth (ug/L)
* -----
1      01-Jan-1907 31-Dec-1907      243.172
0.0000000      0.000
2      01-Jan-1908 31-Dec-1908      110.815
0.0000000      0.000

```

3	01-Jan-1909	31-Dec-1909	212.263	
0.0000000		0.000		
4	01-Jan-1910	31-Dec-1910	219.163	
0.0000000		0.000		
5	01-Jan-1911	31-Dec-1911	308.137	
0.0000000		0.000		
6	01-Jan-1912	31-Dec-1912	235.896	
0.0000000		0.000		
7	01-Jan-1913	31-Dec-1913	242.528	
0.0000000		0.000		
8	01-Jan-1914	31-Dec-1914	268.719	
0.0000000		0.000		
9	01-Jan-1915	31-Dec-1915	162.066	
0.0000000		0.000		
10	01-Jan-1916	31-Dec-1916	319.817	
0.0000000		0.000		
11	01-Jan-1917	31-Dec-1917	97.656	
0.0000000		0.000		
12	01-Jan-1918	31-Dec-1918	156.302	-
0.0000000		0.000		
13	01-Jan-1919	31-Dec-1919	210.310	-
0.0000000		0.000		
14	01-Jan-1920	31-Dec-1920	233.383	-
0.0000000		0.000		
15	01-Jan-1921	31-Dec-1921	86.077	-
0.0000000		0.000		
16	01-Jan-1922	31-Dec-1922	48.048	-
0.0000000		0.000		
17	01-Jan-1923	31-Dec-1923	107.720	-
0.0000000		0.000		
18	01-Jan-1924	31-Dec-1924	118.696	-
0.0000000		0.000		
19	01-Jan-1925	31-Dec-1925	87.624	-
0.0000000		0.000		
20	01-Jan-1926	31-Dec-1926	135.422	-
0.0000000		0.000		

* The average concentration of M52b3 closest to the 80th percentile is 0.000000 ug/L

* Leaching summary for compound M1b3

* Molar mass (g.mol⁻¹) : 362.4
 * Saturated vapour pressure (Pa) : 0.00 ; measured at (C) 20.0
 * Solubility in water (mg.L⁻¹) : 0.100E+04; measured at (C) 25.0
 * Half-life (d) in soil : 11.7; measured at (C) 20.0
 * Kom (coef. for sorption on soil organic matter) (L.kg⁻¹) : 3.3
 * KF (overall sorption coefficient of the soil target layer) (L.kg⁻¹) : 0.437E-01
 * Freundlich exponent (-) : 0.96
 * Plant uptake factor (-) : 0.00

* Period leached * number (kg/ha)	From Average concentration in water	To Substance below target depth (mm)	Water percolated below target depth	Substance below target depth
at target depth (ug/L)				

1	01-Jan-1907	31-Dec-1907	243.172
0.0000996		0.041	
2	01-Jan-1908	31-Dec-1908	110.815
0.0000478		0.043	
3	01-Jan-1909	31-Dec-1909	212.263
0.0000842		0.040	
4	01-Jan-1910	31-Dec-1910	219.163
0.0001881		0.086	
5	01-Jan-1911	31-Dec-1911	308.137
0.0002083		0.068	
6	01-Jan-1912	31-Dec-1912	235.896
0.0001729		0.073	

7	01-Jan-1913	31-Dec-1913		242.528
0.0001488			0.061	
8	01-Jan-1914	31-Dec-1914		268.719
0.0001514			0.056	
9	01-Jan-1915	31-Dec-1915		162.066
0.0000949			0.059	
10	01-Jan-1916	31-Dec-1916		319.817
0.0003063			0.096	
11	01-Jan-1917	31-Dec-1917		97.656
0.0001237			0.127	
12	01-Jan-1918	31-Dec-1918		156.302
0.0000952			0.061	
13	01-Jan-1919	31-Dec-1919		210.310
0.0001300			0.062	
14	01-Jan-1920	31-Dec-1920		233.383
0.0002325			0.100	
15	01-Jan-1921	31-Dec-1921		86.077
0.0000271			0.031	
16	01-Jan-1922	31-Dec-1922		48.048
0.0000039			0.008	
17	01-Jan-1923	31-Dec-1923		107.720
0.0000137			0.013	
18	01-Jan-1924	31-Dec-1924		118.696
0.0000170			0.014	
19	01-Jan-1925	31-Dec-1925		87.624
0.0000273			0.031	
20	01-Jan-1926	31-Dec-1926		135.422
0.0000500			0.037	

* The average concentration of M1b3 closest to the 80th percentile is 0.079555 ug/L

* End of PEARL REPORT: Leaching

*

*

* PEARL REPORT: Project_Summary

* Report_type	Leaching
* Result_text	Concentration closest to the 80th percentile (ug/L)
* Run_Id	589
* ExposureType	Groundwater
* Scenario data subset	FOCUS Groundwater version 5
* Location	CHATEAUDUN
* Meteo_station	chat-m
* Soil_type	CHAT-S_Soil
* Crop_calendar	CHAT-SCEREALS
* Substance	PXDb3
* Application_scheme	PXD-SCereals-BBCH21-45app-CHAT
* Irrigation_scheme	No
* Deposition_scheme	No
* Result_PXDb3	0.000000
* Result_M2b3	0.000002
* Result_M3b3	0.120415
* Result_M5b3	0.122850
* Result_M6b3	0.283315
* Result_M4b3	0.041550
* Result_M52b3	0.000000
* Result_M1b3	0.079555

* End of PEARL REPORT: Project_Summary

*

*

* The run time was 111 minutes and 28 seconds

Listing 7: Tier 1b – Representative *.psm file for PELMO 6.6.4 – 45 g/ha to Spring Cereals at BBCH 21 (Scheme 2).

```

<COMMENT>
GW simulations      <PNX>
<END COMMENT>
<NUMBER OF SOIL HORIZONS>
0
<END NUMBER OF SOIL HORIZONS>
<APPLICATION>
7      0      0      <number of locations absolute app/relative app>
026    <number of application location>
01 01 01 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 02 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 03 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 04 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 05 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 06 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 07 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 08 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 09 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 10 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 11 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 12 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 13 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 14 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 15 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 16 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 17 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 18 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 19 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 20 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 21 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 22 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 23 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 24 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 25 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
01 01 26 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
026    C    <number of application location>
31 03 01 0.036 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
31 03 02 0.036 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>

```


[illegible]


```

31 03 12 0.036 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
31 03 13 0.036 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
31 03 14 0.036 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
31 03 15 0.036 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
31 03 16 0.036 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
31 03 17 0.036 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
31 03 18 0.036 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
31 03 19 0.036 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
31 03 20 0.036 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
31 03 21 0.036 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
31 03 22 0.036 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
31 03 23 0.036 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
31 03 24 0.036 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
31 03 25 0.036 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
31 03 26 0.036 0 0 0 0 0 0 <day month year app_rate obere und untere
app_Tiefe Ffield frpex time>
1 <pesticide appl. flag: 1=soil 2=linear 3=exp. foliar 4=manually
<END APPLICATION>
<FLAGS>
1 1 <henry(0=direct 1=calc.) kd_flag(0=direct 1=calc.)>
<END FLAGS>
<VOLATILIZATION>
<henry solub. molmass vap.press diff air depth volat. Hv
Temperature>
3.33E-04 166.1 400.5 0.00E+00 0.0498 0.1 98400 20
6.67E-10 332.2 400.5 0.00E+00 0.0498 0.1 98400 30
<END VOLATILIZATION>
<PLANT UPTAKE>
0 <plant uptake factor
<END PLANT UPTAKE>
<DEGRADATION>
<degrate degtemp q10 moist-abs moist-rel moist-exp rel deg neq sites
stoichiometric factor
0.00E+00 20 2.58 0 100 0.7 0 1
<Met A1>
2.8335600 20 2.58 0 100 0.7 0 1
<Met B1>
0.00E+00 20 2.58 0 100 0.7 0 1
<Met C1>
0.00E+00 20 2.58 0 100 0.7 0 1
<Met D1>
0.3754547 20 2.58 0 100 0.7 0 1
<BR/CO2>
0 <0 = degradation according to degradation factors, 1 = constant with
depth,2 individual,3 = degradation according to degradation factors, 4 = constant with
depth,5 individual, >2 deg in liquid phase only)
<PHOTODEGRADATION>
<rate 1/n> <I_Ref W/m²>
0 100 0 0 0 0 0 0 0 100
<END DEGRADATION>
<ADSORPTION>
<Koc-value Fr.exp.Koc pH pKa limit for Freundl. ann.incr.> <k_doc> <%
change> KOC2 pH2 f_neq kdes>
132 1.06 -99 20 0.00E+00 0 0 100 -99
-99 0 0
<END ADSORPTION>
<DEPTH DEPENDENT SORPTION AND TRANSFORMATION VALUES>

```

```

<Kd          Fr.exp.      Met A1   Met B1   Met C1   Met D1   BR/CO2 >
<END DEPTH DEPENDENT>
#####
<COMMENT>
METABOLITE B1      M2
<END COMMENT>
<FLAGS>
1  <kd_flag(0=direct 1=calc.)>
<END FLAGS>
<MOLMASS>
316.4
<END MOLMASS>
<PLANT UPTAKE>
0      <plant uptake factor>
<END PLANT UPTAKE>
<DEGRADATION>
<degrate      degtemp      q10          moist-abs   moist-rel   moist-exp   <rel deg in neq sites>
stoichiometric factor
0.1124575    20          2.58          0           100         0.7         0           1
<Met C1>
0.0214692    20          2.58          0           100         0.7         0           1
<Met B2>
0.00E+00     20          2.58          0           100         0.7         0           1
<Met C2>
0.0705415    20          2.58          0           100         0.7         0           1
<BR/CO2>
0
<0 = degradation according to degradation factors, 1 = constant with
depth,2 individual,3 = degradation according to degradation factors, 4 = constant with
depth,5 individual, >2 deg in liquid phase only)
<END DEGRADATION>
<ADSORPTION>
<Koc-value    Fr.exp.Koc    pH          pKa          limit for Freundl.  ann.incr.> <k_doc> <%
change> KOC2    pH2      f_neq      kdes>
1.54          1.01      -99        20           1E-20         0           0           1000      -99
-99          0         0
<END ADSORPTION>
<DEPTH DEPENDENT SORPTION AND TRANSFORMATION VALUES>
<Kd          Fr.exp.      Met C1   Met B2   Met C2   BR/CO2 >
<END DEPTH DEPENDENT>
#####
<COMMENT>
METABOLITE C1      M3
<END COMMENT>
<FLAGS>
1  <kd_flag(0=direct 1=calc.)>
<END FLAGS>
<MOLMASS>
332.4
<END MOLMASS>
<PLANT UPTAKE>
0.784      <plant uptake factor>
<END PLANT UPTAKE>
<DEGRADATION>
<degrate      degtemp      q10          moist-abs   moist-rel   moist-exp   <rel deg in neq sites>
stoichiometric factor
0.00E+00     20          2.58          0           100         0.7         0           1
<Met D1>
0.0143880    20          2.58          0           100         0.7         0           1
<Met C2>
0.00E+00     20          2.58          0           100         0.7         0           1
<Met D2>
0.0031160    20          2.58          0           100         0.7         0           1
<BR/CO2>
0
<0 = degradation according to degradation factors, 1 = constant with
depth,2 individual,3 = degradation according to degradation factors, 4 = constant with
depth,5 individual, >2 deg in liquid phase only)
<END DEGRADATION>
<ADSORPTION>
<Koc-value    Fr.exp.Koc    pH          pKa          limit for Freundl.  ann.incr.> <k_doc> <%
change> KOC2    pH2      f_neq      kdes>

```

```

32.1      0.96      -99      20      1E-20      0      0      1000      -99
-99      0      0
<END ADSORPTION>
<DEPTH DEPENDENT SORPTION AND TRANSFORMATION VALUES>
<Kd      Fr.exp.      Met D1      Met C2      Met D2      BR/CO2 >
<END DEPTH DEPENDENT>
#####
<COMMENT>
METABOLITE B2      M52
<END COMMENT>
<FLAGS>
1 <kd_flag(0=direct 1=calc.)>
<END FLAGS>
<MOLMASS>
360.3
<END MOLMASS>
<PLANT UPTAKE>
0 <plant uptake factor>
<END PLANT UPTAKE>
<DEGRADATION>
<degrate      degtemp      q10      moist-abs      moist-rel      moist-exp      <rel deg in neq sites>
stoichiometric factor
0.00E+00      20      2.58      0      100      0.7      0      1
<Met C2>
0.0822239      20      2.58      0      100      0.7      0      1
<BR/CO2>
0
<0 = degradation according to degradation factors, 1 = constant with
depth,2 individual,3 = degradation according to degradation factors, 4 = constant with
depth,5 individual, >2 deg in liquid phase only)
<END DEGRADATION>
<ADSORPTION>
<Koc-value      Fr.exp.Koc      pH      pKa      limit for Freundl.      ann.incr.> <k_doc> <%
change> KOC2      pH2      f_neq      kdes>
81.1      0.89      -99      20      1E-20      0      0      1000      -99
-99      0      0
<END ADSORPTION>
<DEPTH DEPENDENT SORPTION AND TRANSFORMATION VALUES>
<Kd      Fr.exp.      Met C2      BR/CO2 >
<END DEPTH DEPENDENT>
#####
<COMMENT>
METABOLITE C2      M54
<END COMMENT>
<FLAGS>
1 <kd_flag(0=direct 1=calc.)>
<END FLAGS>
<MOLMASS>
362.4
<END MOLMASS>
<PLANT UPTAKE>
0 <plant uptake factor>
<END PLANT UPTAKE>
<DEGRADATION>
<degrate      degtemp      q10      moist-abs      moist-rel      moist-exp      <rel deg in neq sites>
stoichiometric factor
0.00E+00      20      2.58      0      100      0.7      0      1
<Met D2>
0.0921738      20      2.58      0      100      0.7      0      1
<BR/CO2>
0
<0 = degradation according to degradation factors, 1 = constant with
depth,2 individual,3 = degradation according to degradation factors, 4 = constant with
depth,5 individual, >2 deg in liquid phase only)
<END DEGRADATION>
<ADSORPTION>
<Koc-value      Fr.exp.Koc      pH      pKa      limit for Freundl.      ann.incr.> <k_doc> <%
change> KOC2      pH2      f_neq      kdes>
7.96      0.92      -99      20      1E-20      0      0      1000      -99
-99      0      0
<END ADSORPTION>
<DEPTH DEPENDENT SORPTION AND TRANSFORMATION VALUES>
<Kd      Fr.exp.      Met D2      BR/CO2 >

```

<END DEPTH DEPENDENT>
<THE FOLLOWING SECTION IS USED BY THE SHELL ONLY NOT BY PELMO>
<FORMATION FRACTIONS ENTERED BY THE USER (0=NO,1=YES)>
0
<END FORMATION FRACTIONS>
<END PSM>

Listing 8: Tier 1b – Representative FOCUS Summary Output File for PELMO 6.6.4, 45 g/ha to Spring Cereals at BBCH 21 (Scheme 2).

FOCUS Summary Output File

Model Version: FOCUSPELMO 6.6.4
 Date of this simulation: 29/11/2022 12:14:39
 Pesticide input file: TIER3b_PNXM54_SC45_BBCH21
 Simulated crop: Spring cereals

PECgw for ACTIVE SUBSTANCE (PNX)

Location	Selected Period	Flux (g/ha)	Percolate (L/m ²)	Conc. (µg/L)
Châteaudun (C)	(12/5)	1.21E-13	447.700	0.000
Hamburg (H)	(9/10)	2.19E-15	648.800	0.000
Jokioinen (J)	(20/4)	7.18E-19	583.900	0.000
Kremsmünster (K)	(2/4)	1.45E-12	721.900	0.000
Okehampton (N)	(4/12)	4.47E-11	826.600	0.000
Porto (O)	(3/4)	2.67E-10	1860.90	0.000

PECgw for METABOLITE B1 (M2)

Location	Selected Period	Flux (g/ha)	Percolate (L/m ²)	Conc. (µg/L)
Châteaudun (C)	(13/18)	1.23E-05	333.000	0.000
Hamburg (H)	(18/9)	8.44E-04	634.700	0.000
Jokioinen (J)	(7/2)	0.0395090	553.300	0.005
Kremsmünster (K)	(12/6)	0.0084720	531.800	0.002
Okehampton (N)	(13/6)	0.0227820	1006.30	0.002
Porto (O)	(14/3)	0.0171870	1353.50	0.001

PECgw for METABOLITE C1 (M3)

Location	Selected Period	Flux (g/ha)	Percolate (L/m ²)	Conc. (µg/L)
Châteaudun (C)	(10/5)	0.5155000	633.500	0.081
Hamburg (H)	(14/10)	1.5705000	598.900	0.262
Jokioinen (J)	(10/19)	1.9753000	552.300	0.356
Kremsmünster (K)	(5/14)	2.3119000	691.800	0.331
Okehampton (N)	(7/18)	3.5620000	1083.80	0.328
Porto (O)	(5/17)	2.2941000	1435.40	0.160

PECgw for METABOLITE B2 (M52)

Location	Selected Period	Flux (g/ha)	Percolate (L/m ²)	Conc. (µg/L)
Châteaudun (C)	(12/1)	3.56E-06	397.100	0.000
Hamburg (H)	(10/15)	1.16E-04	448.100	0.000
Jokioinen (J)	(8/7)	0.0023910	682.100	0.000
Kremsmünster (K)	(13/11)	0.0022590	701.500	0.000
Okehampton (N)	(4/18)	0.0016650	778.100	0.000
Porto (O)	(4/14)	1.43E-04	1292.20	0.000

PECgw for METABOLITE C2 (M54)

Location	Selected Period	Flux (g/ha)	Percolate (L/m ²)	Conc. (µg/L)
Châteaudun (C)	(12/5)	0.1121600	447.700	0.025

Hamburg (H)	(11/18)	0.4407000	451.100	0.098
Jokioinen (J)	(2/18)	1.0550000	612.400	0.173
Kremsmünster (K)	(3/5)	0.9392000	948.300	0.099
Okehampton (N)	(12/7)	1.2209000	1132.30	0.108
Porto (O)	(17/4)	0.8497000	1469.60	0.058

**Listing 9: Tier 1a – Representative *.par file for Pinoxaden to M2 for MACRO 5.5.4
– 60 g/ha to Winter Cereals at BBCH 11 for the Châteaudun scenario**

```

NUMERICAL LAYERS      200      TPORV  2      44      NLayer  3      10
GENERAL PARAMETERS    TPORV  3      44      NLayer  4      42
RUNID  1              TPORV  4      44      NLayer  5      21
NUMERICAL LAYERS      200      TPORV  5      44      NLayer  6      75
NHORIZON  6            TPORV  6      49      ORGC   1      1.39
NLayer  200           TRAPAIR 1      0      ORGC   2      0.93
*****              TRAPAIR 2      0      ORGC   3      0.7
*****              TRAPAIR 3      0      ORGC   4      0.3
PHYSICAL PARAMETERS   TRAPAIR 4      0      ORGC   5      0.3
NHORIZONS  6           TRAPAIR 5      0      ORGC   6      0.27
ALPHA  1      0.05      TRAPAIR 6      0      THICKNESS 1      25
ALPHA  2      0.05      WILT  1      25.8      THICKNESS 2      25
ALPHA  3      0.05      WILT  2      23.7      THICKNESS 3      10
ALPHA  4      0.015     WILT  3      23.7      THICKNESS 4      40
ALPHA  5      0.015     WILT  4      18.8      THICKNESS 5      20
ALPHA  6      0.0107    WILT  5      18.8      THICKNESS 6      70
ASCALE 1      10        WILT  6      15      *****
ASCALE 2      75        XMPOR  1      41      *****
ASCALE 3      75        XMPOR  2      43      OPTIONS
ASCALE 4      1         XMPOR  3      43      AVERAGET      1
ASCALE 5      1         XMPOR  4      43      AVERAGEX      2
ASCALE 6      4         XMPOR  5      43      BOUNDARY      4
CTEN  1      20         XMPOR  6      47      CHAPAR  0
CTEN  2      20         ZA  1      1      CROP  2
CTEN  3      20         ZA  2      1      CRUST  0
CTEN  4      40         ZA  3      1      DEGKIN  0
CTEN  5      40         ZA  4      1      DRIVING 0
CTEN  6      30         ZA  5      1      EVAPORATE      1
GAMMA 1      1.3        ZA  6      1      INITIAL 1
GAMMA 2      1.41       ZM  1      -0.5      IRRIGATE      1
GAMMA 3      1.41       ZM  2      -0.5      KINETIC 0
GAMMA 4      1.37       ZM  3      1.5      MASSUNITS      2
GAMMA 5      1.37       ZM  4      -4      METABOLITE      0
GAMMA 6      1.41       ZM  5      -4      RAINFALL      1
KSATMIN 1      72       ZM  6      -3.5      SOLUTE  2
KSATMIN 2      108      ZN  1      3      TEMPINI 0
KSATMIN 3      180      ZN  2      3      TILEDRAIN      2
KSATMIN 4      43       ZN  3      3      VARTENSION      0
KSATMIN 5      43       ZN  4      2      *****
KSATMIN 6      33       ZN  5      2      *****
KSM  1      0.25        ZN  6      2      SOLUTE PARAMETERS
KSM  2      0.5         ZP  1      0      CANDEG  0.2
KSM  3      1          ZP  2      0      CONC  0
KSM  4      1          ZP  3      0      DIFF  4.976852E-10
KSM  5      1          ZP  4      0      DV  5
KSM  6      3.25        ZP  5      0      EXPB  0.49
N  1      1.07          ZP  6      0      FCONVERT      0
N  2      1.09          *****
N  3      1.09          *****
N  4      1.14          PROPERTIES
N  5      1.14          NHORIZONS  6
N  6      1.19          CLAY  1      30
RESID  1      0          CLAY  2      31
RESID  2      0          CLAY  3      25
RESID  3      0          CLAY  4      26
RESID  4      0          CLAY  5      24
RESID  5      0          CLAY  6      31
RESID  6      0          HTICK  1      25
STONE  1      0          HTICK  2      25
STONE  2      0          HTICK  3      10
STONE  3      0          HTICK  4      40
STONE  4      0          HTICK  5      20
STONE  5      0          HTICK  6      70
STONE  6      0          NLayer  1      26
TPORV  1      43        NLayer  2      26

```

AEXC	6	0	ZDATEMIN	1	90	IRRYEAR	6	
DEGMAL	1	0.6027367	ZDATEMIN2	1	0	NIRRIGATIONS	1	
DEGMAL	2	0.3013684	ZHMIN	1	0	IRRIGNO	1	
DEGMAL	3	0.3013684	*****			IRRDAY	96	
DEGMAL	4	0.180821	*****			IRRSTART	9	
DEGMAL	5	0	SITE PARAMETERS			IRREND	9.2	
DEGMAL	6	0	ALBEDO	0.25		AMIR	0.1	
DEGMAS	1	0.6027367	ANNAMP	7.7		CONCI	60000	
DEGMAS	2	0.3013684	ANNTAV	11.9		ZFINT	0	
DEGMAS	3	0.3013684	DRAINDEP	0		IRRYEAR	7	
DEGMAS	4	0.180821	DWRL	0		NIRRIGATIONS	1	
DEGMAS	5	0	LAYERD	0		IRRIGNO	1	
DEGMAS	6	0	PHI	48.1		IRRDAY	96	
DEGMIL	1	0.6027367	RAINCO	1		IRRSTART	9	
DEGMIL	2	0.3013684	RGWFLOW	0		IRREND	9.2	
DEGMIL	3	0.3013684	RINTEN	2		AMIR	0.1	
DEGMIL	4	0.180821	SNOWCO	1		CONCI	60000	
DEGMIL	5	0	SNOWMF	4.5		ZFINT	0	
DEGMIL	6	0	SPACE	0		IRRYEAR	8	
DEGMIS	1	0.6027367	ZMET	10		NIRRIGATIONS	1	
DEGMIS	2	0.3013684	*****			IRRIGNO	1	
DEGMIS	3	0.3013684	*****			IRRDAY	96	
DEGMIS	4	0.180821	IRRIGATION PARAMETERS			IRRSTART	9	
DEGMIS	5	0	IRRSAME	True		IRREND	9.2	
DEGMIS	6	0	CRITDEF	-1		AMIR	0.1	
FREUND	1	1.06	IRRYEARS	26		CONCI	60000	
FREUND	2	1.06	IRRYEAR	1		ZFINT	0	
FREUND	3	1.06	NIRRIGATIONS	1		IRRYEAR	9	
FREUND	4	1.06	IRRIGNO	1		NIRRIGATIONS	1	
FREUND	5	1.06	IRRDAY	96		IRRIGNO	1	
FREUND	6	1.06	IRRSTART	9		IRRDAY	96	
ZKD	1	1.835612	IRREND	9.2		IRRSTART	9	
ZKD	2	1.228143	AMIR	0.1		IRREND	9.2	
ZKD	3	0.9244087	CONCI	60000		AMIR	0.1	
ZKD	4	0.3961752	ZFINT	0		CONCI	60000	
ZKD	5	0.3961752	IRRYEAR	2		ZFINT	0	
ZKD	6	0.3565577	NIRRIGATIONS	1		IRRYEAR	10	
*****			IRRIGNO	1		NIRRIGATIONS	1	
*****			IRRDAY	96		IRRIGNO	1	
CROP PARAMETERS			IRRSTART	9		IRRDAY	96	
NCROPS	1		IRREND	9.2		IRRSTART	9	
ATTEN	1	0.6	AMIR	0.1		IRREND	9.2	
BETA	1	0.1	CONCI	60000		AMIR	0.1	
CANCAP	1	3	ZFINT	0		CONCI	60000	
CFORM	1	2	IRRYEAR	3		ZFINT	0	
CRITAIR	1	5	NIRRIGATIONS	1		IRRYEAR	11	
DFORM	1	0.2	IRRIGNO	1		NIRRIGATIONS	1	
FAWC	1	0.7800209	IRRDAY	96		IRRIGNO	1	
HCROP	1	0	IRRSTART	9		IRRDAY	96	
HMAX	1	0	IRREND	9.2		IRRSTART	9	
IDMAX	1	151	AMIR	0.1		IRREND	9.2	
IDMAX2	1	0	CONCI	60000		AMIR	0.1	
IDSTART	1	299	ZFINT	0		CONCI	60000	
IDSTART2	1	0	IRRYEAR	4		ZFINT	0	
IHARV	1	196	NIRRIGATIONS	1		IRRYEAR	12	
IHARV2	1	0	IRRIGNO	1		NIRRIGATIONS	1	
LAIC	1	0	IRRDAY	96		IRRIGNO	1	
LAIHAR	1	2	IRRSTART	9		IRRDAY	96	
LAIMAX	1	7.5	IRREND	9.2		IRRSTART	9	
LAIMIN	1	0.1	AMIR	0.1		IRREND	9.2	
NCROP	1	1	CONCI	60000		AMIR	0.1	
RI50	1	50	ZFINT	0		CONCI	60000	
ROOTDEP	1	0	IRRYEAR	5		ZFINT	0	
ROOTINIT	1	0.2	NIRRIGATIONS	1		IRRYEAR	13	
ROOTMAX	1	0.8	IRRIGNO	1		NIRRIGATIONS	1	
RPIN	1	60	IRRDAY	96		IRRIGNO	1	
RSMIN	1	0	IRRSTART	9		IRRDAY	96	
RSURF	1	0	IRREND	9.2		IRRSTART	9	
WATEN	1	50	AMIR	0.1		IRREND	9.2	
VPD50	1	50	CONCI	60000		AMIR	0.1	
ZALP	1	1	ZFINT	0		CONCI	60000	

ZFINT 0		CONCI 60000		RAINFALLFILE	
IRRYEAR 14		ZFINT 0		C:\SWASH\macro\Mul	
NIRRIGATIONS 1	1	IRRYEAR 22		ti_GW\Pa3M2_ID001\bin\cdm6	
IRRIGNO 1		NIRRIGATIONS 1	1	p.BIN	
IRRDAY 96		IRRIGNO 1		TENSIONFILE (none)	
IRRSTART 9	9	IRRDAY 96		TOTPHYSLAYER 200	
IRREND 9.2		IRRSTART 9	9	*****	
AMIR 0.1		IRREND 9.2		*****	
CONCI 60000		AMIR 0.1		TILLAGE PARAMETERS	
ZFINT 0		CONCI 60000		CRUSTSTA 0	
IRRYEAR 15		ZFINT 0		DUMMY 0	
NIRRIGATIONS 1	1	IRRYEAR 23		GAMMASEAL 0	
IRRIGNO 1		NIRRIGATIONS 1	1	GAMMATILL 0	
IRRDAY 96		IRRIGNO 1		HALFCRUS 0	
IRRSTART 9	9	IRRDAY 96		HALFRAIN 0	
IRREND 9.2		IRRSTART 9	9	KSMSEAL 0	
AMIR 0.1		IRREND 9.2		KSMTILLE 0	
CONCI 60000		AMIR 0.1		MACDCH 0	
ZFINT 0		CONCI 60000		MACPCH 0	
IRRYEAR 16		ZFINT 0		NTILL 0	
NIRRIGATIONS 1	1	IRRYEAR 24		XMPORSEAL 0	
IRRIGNO 1		NIRRIGATIONS 1	1	ZNSEAL 0	
IRRDAY 96		IRRIGNO 1		*****	
IRRSTART 9	9	IRRDAY 96		*****	
IRREND 9.2		IRRSTART 9	9	OUTPUTS	
AMIR 0.1		IRREND 9.2		NSINGLE 81	
CONCI 60000		AMIR 0.1		RRNRain -1 0 X	
ZFINT 0		CONCI 60000		ACCMELT -1 0 X	
IRRYEAR 17		ZFINT 0		PWT -1 0 X	
NIRRIGATIONS 1	1	IRRYEAR 25		INFILMI -1 0 X	
IRRIGNO 1		NIRRIGATIONS 1	1	INFILMA -1 0 X	
IRRDAY 96		IRRIGNO 1		CINFIL -1 0 X	
IRRSTART 9	9	IRRDAY 96		RAIN -1 0 X	
IRREND 9.2		IRRSTART 9	9	CETA -1 0 T	
AMIR 0.1		IRREND 9.2		EPOT -1 0 T	
CONCI 60000		AMIR 0.1		CCEPOT -1 0 T	
ZFINT 0		CONCI 60000		CCETA -1 0 T	
IRRYEAR 18		ZFINT 0		TPRECIP -1 0 T	
NIRRIGATIONS 1	1	IRRYEAR 26		TTPRECIP -1 0	
IRRIGNO 1		NIRRIGATIONS 1	1	T	
IRRDAY 96		IRRIGNO 1		SSEEP 0 0 T	
IRRSTART 9	9	IRRDAY 96		TSEEP 0 0 T	
IRREND 9.2		IRRSTART 9	9	CRES -1 0 T	
AMIR 0.1		IRREND 9.2		SRUNOFF -1 0 T	
CONCI 60000		AMIR 0.1		WWW -1 0 T	
ZFINT 0		CONCI 60000		TRUNOFF -1 1 T	
IRRYEAR 19		ZFINT 0		TFLOWOUT -1 1	
NIRRIGATIONS 1	1	*****		T	
IRRIGNO 1		*****		TFLOW -1 0 T	
IRRDAY 96		SETUP		TSTOREMI -1 1	
IRRSTART 9	9	DATEFILE		T	
IRREND 9.2		DRIVINGFILE		TSTOREMA -1 1	
AMIR 0.1		C:\swash\macro\mac		T	
CONCI 60000		ro999.bin		PRECIRR -1 0 T	
ZFINT 0		DRIVINGPERIOD 01-Jan-		PRECIRA -1 1 T	
IRRYEAR 20		1901-01-Jan-1927		SEEPMI 0 0 T	
NIRRIGATIONS 1	1	ENDDATE 1927-01-01 00:00		SEEPMIAC 0 0	
IRRIGNO 1		OUTPUTFILE		T	
IRRDAY 96		macro001.bin		PSOIL -1 0 T	
IRRSTART 9	9	METFILE		UPT -1 0 T	
IRREND 9.2		C:\SWASH\macro\Mul		CPSOIL -1 0 T	
AMIR 0.1		ti_GW\Pa3M2_ID001\bin\cdm6		CUPT -1 0 T	
CONCI 60000		et.BIN		ESOIL -1 0 T	
ZFINT 0		METPERIOD 1901-01-01		ETA -1 0 T	
IRRYEAR 21		00:00-1927-01-01 00:00		WETACT -1 0 T	
NIRRIGATIONS 1	1	NUMLAYERS 0		CESOIL -1 0 T	
IRRIGNO 1		OUTINTD 1		CETC -1 0 T	
IRRDAY 96		OUTINTM 0		CCET -1 1 T	
IRRSTART 9	9	PERIODFILE10 (none)		GSRAT 0 0 T	
IRREND 9.2		STARTDATE 1901-01-01		GSTOT 0 0 T	
AMIR 0.1		00:00		WATEREQ -1 0 T	

BOTFLOW -1	0	G	16	0	3176	87	0	3176
DRAINCON	0	0	17	0	3176	88	0	3176
G			18	0	3176	89	0	3176
TMAX -1	0	G	19	0	3176	90	0	3176
TMIN -1	0	G	20	0	3176	91	0	3176
SMICIN -1	0	G	21	0	3176	92	0	3176
SMACIN -1	0	G	22	0	3176	93	0	3176
GRCON 0	0	G	23	0	3176	94	0	3176
TAV -1	0	G	24	0	3176	95	0	3176
GLOBAL -1	0	G	25	0	3176	96	0	3176
TSOUT -1	1	D	26	0	3176	97	0	3176
TSS -1	0	D	27	0	3176	98	0	3176
SSS -1	0	D	28	0	3176	99	0	3176
TSRUN -1	1	D	29	0	3176	100	0	3176
TPAM -1	1	D	30	0	3176	101	0	3176
TCAM -1	1	D	31	0	3176	102	0	3176
TADMI -1	1	D	32	0	3176	103	0	3176
TADMA -1	1	D	33	0	3176	104	1	3176
TDEG -1	1	D	34	0	3176	105	0	3176
TUPT -1	1	D	35	0	3176	106	0	3176
SAMS -1	0	D	36	0	3176	107	0	3176
CDEG -1	0	D	37	0	3176	108	0	3176
DRAINLOS	0	0	38	0	3176	109	0	3176
D			39	0	3176	110	0	3176
DSOLTOSS	0	0	40	0	3176	111	0	3176
D			41	0	3176	112	0	3176
DSOLTMIC	0	0	42	0	3176	113	0	3176
D			43	0	3176	114	0	3176
TSOLTMIC	0	0	44	0	3176	115	0	3176
D			45	0	3176	116	0	3176
ELOSS 0	0	D	46	0	3176	117	0	3176
SSRAT 0	0	D	47	0	3176	118	0	3176
SSTOT 0	0	D	48	0	3176	119	0	3176
CFOUT 0	0	D	49	0	3176	120	0	3176
ACFOUT 0	0	D	50	0	3176	121	0	3176
TCOLLM A 0	0	D	51	0	3176	122	0	3176
TCOLLM I 0	0	D	52	0	3176	123	0	3176
CFDRAIN 0	0	D	53	0	3176	124	0	3176
ACFDRAIN	0	0	54	0	3176	125	0	3176
D			55	0	3176	126	0	3176
TDEC 0	0	D	56	0	3176	127	0	3176
TIMMOB 0	0	D	57	0	3176	128	0	3176
GENERATE	0	0	58	0	3176	129	0	3176
D			59	0	3176	130	0	3176
GSINK -1	0	D	60	0	3176	131	0	3176
CFDRS 0	0	D	61	0	3176	132	0	3176
ACFDRS 0	0	D	62	0	3176	133	0	3176
PC 0	0	D	63	0	3176	134	0	3176
NLAYERED	49		64	0	3176	135	0	3176
THETA -1	0	X	65	0	3176	136	0	3176
THETI -1	0	X	66	0	3176	137	0	3176
THETT -1	0	X	67	0	3176	138	0	3176
TMPOR -1	0	X	68	0	3176	139	0	3176
CPSI -1	0	X	69	0	3176	140	0	3176
ZUPTAKE -1	0	X	70	0	3176	141	0	3176
WOUT -1	1	X	71	0	3176	142	0	3176
1	0	3176	72	0	3176	143	0	3176
2	0	3176	73	0	3176	144	0	3176
3	0	3176	74	0	3176	145	0	3176
4	0	3176	75	0	3176	146	0	3176
5	0	3176	76	0	3176	147	0	3176
6	0	3176	77	0	3176	148	0	3176
7	0	3176	78	0	3176	149	0	3176
8	0	3176	79	0	3176	150	0	3176
9	0	3176	80	0	3176	151	0	3176
10	0	3176	81	0	3176	152	0	3176
11	0	3176	82	0	3176	153	0	3176
12	0	3176	83	0	3176	154	0	3176
13	0	3176	84	0	3176	155	0	3176
14	0	3176	85	0	3176	156	0	3176
15	0	3176	86	0	3176	157	0	3176

158	0	3176		24	0	3179	95	0	3179
159	0	3176		25	0	3179	96	0	3179
160	0	3176		26	0	3179	97	0	3179
161	0	3176		27	0	3179	98	0	3179
162	0	3176		28	0	3179	99	0	3179
163	0	3176		29	0	3179	100	0	3179
164	0	3176		30	0	3179	101	0	3179
165	0	3176		31	0	3179	102	0	3179
166	0	3176		32	0	3179	103	0	3179
167	0	3176		33	0	3179	104	1	3179
168	0	3176		34	0	3179	105	0	3179
169	0	3176		35	0	3179	106	0	3179
170	0	3176		36	0	3179	107	0	3179
171	0	3176		37	0	3179	108	0	3179
172	0	3176		38	0	3179	109	0	3179
173	0	3176		39	0	3179	110	0	3179
174	0	3176		40	0	3179	111	0	3179
175	0	3176		41	0	3179	112	0	3179
176	0	3176		42	0	3179	113	0	3179
177	0	3176		43	0	3179	114	0	3179
178	0	3176		44	0	3179	115	0	3179
179	0	3176		45	0	3179	116	0	3179
180	0	3176		46	0	3179	117	0	3179
181	0	3176		47	0	3179	118	0	3179
182	0	3176		48	0	3179	119	0	3179
183	0	3176		49	0	3179	120	0	3179
184	0	3176		50	0	3179	121	0	3179
185	0	3176		51	0	3179	122	0	3179
186	0	3176		52	0	3179	123	0	3179
187	0	3176		53	0	3179	124	0	3179
188	0	3176		54	0	3179	125	0	3179
189	0	3176		55	0	3179	126	0	3179
190	0	3176		56	0	3179	127	0	3179
191	0	3176		57	0	3179	128	0	3179
192	0	3176		58	0	3179	129	0	3179
193	0	3176		59	0	3179	130	0	3179
194	0	3176		60	0	3179	131	0	3179
195	0	3176		61	0	3179	132	0	3179
196	0	3176		62	0	3179	133	0	3179
197	0	3176		63	0	3179	134	0	3179
198	0	3176		64	0	3179	135	0	3179
199	0	3176		65	0	3179	136	0	3179
200	0	3176		66	0	3179	137	0	3179
EXCHANGE		-1	0	67	0	3179	138	0	3179
X				68	0	3179	139	0	3179
THETAMA -1		0	X	69	0	3179	140	0	3179
WFLOWOUT		-1	1	70	0	3179	141	0	3179
X				71	0	3179	142	0	3179
1	0	3179		72	0	3179	143	0	3179
2	0	3179		73	0	3179	144	0	3179
3	0	3179		74	0	3179	145	0	3179
4	0	3179		75	0	3179	146	0	3179
5	0	3179		76	0	3179	147	0	3179
6	0	3179		77	0	3179	148	0	3179
7	0	3179		78	0	3179	149	0	3179
8	0	3179		79	0	3179	150	0	3179
9	0	3179		80	0	3179	151	0	3179
10	0	3179		81	0	3179	152	0	3179
11	0	3179		82	0	3179	153	0	3179
12	0	3179		83	0	3179	154	0	3179
13	0	3179		84	0	3179	155	0	3179
14	0	3179		85	0	3179	156	0	3179
15	0	3179		86	0	3179	157	0	3179
16	0	3179		87	0	3179	158	0	3179
17	0	3179		88	0	3179	159	0	3179
18	0	3179		89	0	3179	160	0	3179
19	0	3179		90	0	3179	161	0	3179
20	0	3179		91	0	3179	162	0	3179
21	0	3179		92	0	3179	163	0	3179
22	0	3179		93	0	3179	164	0	3179
23	0	3179		94	0	3179	165	0	3179

166	0	3179		29	0	3186	100	0	3186
167	0	3179		30	0	3186	101	0	3186
168	0	3179		31	0	3186	102	0	3186
169	0	3179		32	0	3186	103	0	3186
170	0	3179		33	0	3186	104	1	3186
171	0	3179		34	0	3186	105	0	3186
172	0	3179		35	0	3186	106	0	3186
173	0	3179		36	0	3186	107	0	3186
174	0	3179		37	0	3186	108	0	3186
175	0	3179		38	0	3186	109	0	3186
176	0	3179		39	0	3186	110	0	3186
177	0	3179		40	0	3186	111	0	3186
178	0	3179		41	0	3186	112	0	3186
179	0	3179		42	0	3186	113	0	3186
180	0	3179		43	0	3186	114	0	3186
181	0	3179		44	0	3186	115	0	3186
182	0	3179		45	0	3186	116	0	3186
183	0	3179		46	0	3186	117	0	3186
184	0	3179		47	0	3186	118	0	3186
185	0	3179		48	0	3186	119	0	3186
186	0	3179		49	0	3186	120	0	3186
187	0	3179		50	0	3186	121	0	3186
188	0	3179		51	0	3186	122	0	3186
189	0	3179		52	0	3186	123	0	3186
190	0	3179		53	0	3186	124	0	3186
191	0	3179		54	0	3186	125	0	3186
192	0	3179		55	0	3186	126	0	3186
193	0	3179		56	0	3186	127	0	3186
194	0	3179		57	0	3186	128	0	3186
195	0	3179		58	0	3186	129	0	3186
196	0	3179		59	0	3186	130	0	3186
197	0	3179		60	0	3186	131	0	3186
198	0	3179		61	0	3186	132	0	3186
199	0	3179		62	0	3186	133	0	3186
200	0	3179		63	0	3186	134	0	3186
DRAINFL0	-1	0		64	0	3186	135	0	3186
X				65	0	3186	136	0	3186
DRAINMI -1	0	X		66	0	3186	137	0	3186
THETAM -1	0	X		67	0	3186	138	0	3186
TEMP -1	0	G		68	0	3186	139	0	3186
SOLMIC -1	0	G		69	0	3186	140	0	3186
SOLMAC -1	0	G		70	0	3186	141	0	3186
SFLOW -1	1	G		71	0	3186	142	0	3186
1	0	3186		72	0	3186	143	0	3186
2	0	3186		73	0	3186	144	0	3186
3	0	3186		74	0	3186	145	0	3186
4	0	3186		75	0	3186	146	0	3186
5	0	3186		76	0	3186	147	0	3186
6	0	3186		77	0	3186	148	0	3186
7	0	3186		78	0	3186	149	0	3186
8	0	3186		79	0	3186	150	0	3186
9	0	3186		80	0	3186	151	0	3186
10	0	3186		81	0	3186	152	0	3186
11	0	3186		82	0	3186	153	0	3186
12	0	3186		83	0	3186	154	0	3186
13	0	3186		84	0	3186	155	0	3186
14	0	3186		85	0	3186	156	0	3186
15	0	3186		86	0	3186	157	0	3186
16	0	3186		87	0	3186	158	0	3186
17	0	3186		88	0	3186	159	0	3186
18	0	3186		89	0	3186	160	0	3186
19	0	3186		90	0	3186	161	0	3186
20	0	3186		91	0	3186	162	0	3186
21	0	3186		92	0	3186	163	0	3186
22	0	3186		93	0	3186	164	0	3186
23	0	3186		94	0	3186	165	0	3186
24	0	3186		95	0	3186	166	0	3186
25	0	3186		96	0	3186	167	0	3186
26	0	3186		97	0	3186	168	0	3186
27	0	3186		98	0	3186	169	0	3186
28	0	3186		99	0	3186	170	0	3186

171	0	3186	40	0	3187	111	0	3187
172	0	3186	41	0	3187	112	0	3187
173	0	3186	42	0	3187	113	0	3187
174	0	3186	43	0	3187	114	0	3187
175	0	3186	44	0	3187	115	0	3187
176	0	3186	45	0	3187	116	0	3187
177	0	3186	46	0	3187	117	0	3187
178	0	3186	47	0	3187	118	0	3187
179	0	3186	48	0	3187	119	0	3187
180	0	3186	49	0	3187	120	0	3187
181	0	3186	50	0	3187	121	0	3187
182	0	3186	51	0	3187	122	0	3187
183	0	3186	52	0	3187	123	0	3187
184	0	3186	53	0	3187	124	0	3187
185	0	3186	54	0	3187	125	0	3187
186	0	3186	55	0	3187	126	0	3187
187	0	3186	56	0	3187	127	0	3187
188	0	3186	57	0	3187	128	0	3187
189	0	3186	58	0	3187	129	0	3187
190	0	3186	59	0	3187	130	0	3187
191	0	3186	60	0	3187	131	0	3187
192	0	3186	61	0	3187	132	0	3187
193	0	3186	62	0	3187	133	0	3187
194	0	3186	63	0	3187	134	0	3187
195	0	3186	64	0	3187	135	0	3187
196	0	3186	65	0	3187	136	0	3187
197	0	3186	66	0	3187	137	0	3187
198	0	3186	67	0	3187	138	0	3187
199	0	3186	68	0	3187	139	0	3187
200	0	3186	69	0	3187	140	0	3187
SFLOWOUT	-1	1	70	0	3187	141	0	3187
G			71	0	3187	142	0	3187
1	0	3187	72	0	3187	143	0	3187
2	0	3187	73	0	3187	144	0	3187
3	0	3187	74	0	3187	145	0	3187
4	0	3187	75	0	3187	146	0	3187
5	0	3187	76	0	3187	147	0	3187
6	0	3187	77	0	3187	148	0	3187
7	0	3187	78	0	3187	149	0	3187
8	0	3187	79	0	3187	150	0	3187
9	0	3187	80	0	3187	151	0	3187
10	0	3187	81	0	3187	152	0	3187
11	0	3187	82	0	3187	153	0	3187
12	0	3187	83	0	3187	154	0	3187
13	0	3187	84	0	3187	155	0	3187
14	0	3187	85	0	3187	156	0	3187
15	0	3187	86	0	3187	157	0	3187
16	0	3187	87	0	3187	158	0	3187
17	0	3187	88	0	3187	159	0	3187
18	0	3187	89	0	3187	160	0	3187
19	0	3187	90	0	3187	161	0	3187
20	0	3187	91	0	3187	162	0	3187
21	0	3187	92	0	3187	163	0	3187
22	0	3187	93	0	3187	164	0	3187
23	0	3187	94	0	3187	165	0	3187
24	0	3187	95	0	3187	166	0	3187
25	0	3187	96	0	3187	167	0	3187
26	0	3187	97	0	3187	168	0	3187
27	0	3187	98	0	3187	169	0	3187
28	0	3187	99	0	3187	170	0	3187
29	0	3187	100	0	3187	171	0	3187
30	0	3187	101	0	3187	172	0	3187
31	0	3187	102	0	3187	173	0	3187
32	0	3187	103	0	3187	174	0	3187
33	0	3187	104	1	3187	175	0	3187
34	0	3187	105	0	3187	176	0	3187
35	0	3187	106	0	3187	177	0	3187
36	0	3187	107	0	3187	178	0	3187
37	0	3187	108	0	3187	179	0	3187
38	0	3187	109	0	3187	180	0	3187
39	0	3187	110	0	3187	181	0	3187

182	0	3187		SOLINIT 10	0	SOLINIT 81	0
183	0	3187		SOLINIT 11	0	SOLINIT 82	0
184	0	3187		SOLINIT 12	0	SOLINIT 83	0
185	0	3187		SOLINIT 13	0	SOLINIT 84	0
186	0	3187		SOLINIT 14	0	SOLINIT 85	0
187	0	3187		SOLINIT 15	0	SOLINIT 86	0
188	0	3187		SOLINIT 16	0	SOLINIT 87	0
189	0	3187		SOLINIT 17	0	SOLINIT 88	0
190	0	3187		SOLINIT 18	0	SOLINIT 89	0
191	0	3187		SOLINIT 19	0	SOLINIT 90	0
192	0	3187		SOLINIT 20	0	SOLINIT 91	0
193	0	3187		SOLINIT 21	0	SOLINIT 92	0
194	0	3187		SOLINIT 22	0	SOLINIT 93	0
195	0	3187		SOLINIT 23	0	SOLINIT 94	0
196	0	3187		SOLINIT 24	0	SOLINIT 95	0
197	0	3187		SOLINIT 25	0	SOLINIT 96	0
198	0	3187		SOLINIT 26	0	SOLINIT 97	0
199	0	3187		SOLINIT 27	0	SOLINIT 98	0
200	0	3187		SOLINIT 28	0	SOLINIT 99	0
CEXCH	-1	0	D	SOLINIT 29	0	SOLINIT 100	0
DEGMIC	-1	0	G	SOLINIT 30	0	SOLINIT 101	0
DEGMAC	-1	0	G	SOLINIT 31	0	SOLINIT 102	0
SOLIMOB	-1	0	G	SOLINIT 32	0	SOLINIT 103	0
PAM	-1	0	D	SOLINIT 33	0	SOLINIT 104	0
CAM	-1	0	D	SOLINIT 34	0	SOLINIT 105	0
ADMI	-1	0	D	SOLINIT 35	0	SOLINIT 106	0
ADMA	-1	0	D	SOLINIT 36	0	SOLINIT 107	0
PAMT	-1	0	D	SOLINIT 37	0	SOLINIT 108	0
CAMT	-1	0	D	SOLINIT 38	0	SOLINIT 109	0
PCAA	-1	0	D	SOLINIT 39	0	SOLINIT 110	0
COLCMI	-1	0	D	SOLINIT 40	0	SOLINIT 111	0
COLCMA	-1	0	D	SOLINIT 41	0	SOLINIT 112	0
SFDMI	-1	0	D	SOLINIT 42	0	SOLINIT 113	0
SFDMA	-1	0	D	SOLINIT 43	0	SOLINIT 114	0
ZAM	-1	0	D	SOLINIT 44	0	SOLINIT 115	0
SFSDMA	-1	0	D	SOLINIT 45	0	SOLINIT 116	0
SFSDMI	-1	0	D	SOLINIT 46	0	SOLINIT 117	0
GAMMA	-1	0	GP	SOLINIT 47	0	SOLINIT 118	0
Z	-1	0	GP	SOLINIT 48	0	SOLINIT 119	0
XMPOR	-1	0	GP	SOLINIT 49	0	SOLINIT 120	0
ALPHA	-1	0	GP	SOLINIT 50	0	SOLINIT 121	0
KSM	-1	0	GP	SOLINIT 51	0	SOLINIT 122	0
ZN	-1	0	GP	SOLINIT 52	0	SOLINIT 123	0
ASCALE	-1	0	GP	SOLINIT 53	0	SOLINIT 124	0
TRAP_AIR	-1	0		SOLINIT 54	0	SOLINIT 125	0
GP				SOLINIT 55	0	SOLINIT 126	0
TSEXT	-1	0	GP	SOLINIT 56	0	SOLINIT 127	0
KSATMIN	-1	0	GP	SOLINIT 57	0	SOLINIT 128	0
TPORV	-1	0	GP	SOLINIT 58	0	SOLINIT 129	0
ADMI_KIN	-1	0		SOLINIT 59	0	SOLINIT 130	0
D				SOLINIT 60	0	SOLINIT 131	0
*****				SOLINIT 61	0	SOLINIT 132	0
*****				SOLINIT 62	0	SOLINIT 133	0
BOUNDARY AND INITIAL				SOLINIT 63	0	SOLINIT 134	0
CONDITIONS				SOLINIT 64	0	SOLINIT 135	0
AREA	0			SOLINIT 65	0	SOLINIT 136	0
BGRAD	0			SOLINIT 66	0	SOLINIT 137	0
BOTEN	1010			SOLINIT 67	0	SOLINIT 138	0
CONCIN	0			SOLINIT 68	0	SOLINIT 139	0
CONSTSTA	0			SOLINIT 69	0	SOLINIT 140	0
GWFLUX	0			SOLINIT 70	0	SOLINIT 141	0
IASCALE	0			SOLINIT 71	0	SOLINIT 142	0
SOLINIT 1	0			SOLINIT 72	0	SOLINIT 143	0
SOLINIT 2	0			SOLINIT 73	0	SOLINIT 144	0
SOLINIT 3	0			SOLINIT 74	0	SOLINIT 145	0
SOLINIT 4	0			SOLINIT 75	0	SOLINIT 146	0
SOLINIT 5	0			SOLINIT 76	0	SOLINIT 147	0
SOLINIT 6	0			SOLINIT 77	0	SOLINIT 148	0
SOLINIT 7	0			SOLINIT 78	0	SOLINIT 149	0
SOLINIT 8	0			SOLINIT 79	0	SOLINIT 150	0
SOLINIT 9	0			SOLINIT 80	0	SOLINIT 151	0

SOLINIT 152	0	TEMPINI 23	10	TEMPINI 94	10
SOLINIT 153	0	TEMPINI 24	10	TEMPINI 95	10
SOLINIT 154	0	TEMPINI 25	10	TEMPINI 96	10
SOLINIT 155	0	TEMPINI 26	10	TEMPINI 97	10
SOLINIT 156	0	TEMPINI 27	10	TEMPINI 98	10
SOLINIT 157	0	TEMPINI 28	10	TEMPINI 99	10
SOLINIT 158	0	TEMPINI 29	10	TEMPINI 100	10
SOLINIT 159	0	TEMPINI 30	10	TEMPINI 101	10
SOLINIT 160	0	TEMPINI 31	10	TEMPINI 102	10
SOLINIT 161	0	TEMPINI 32	10	TEMPINI 103	10
SOLINIT 162	0	TEMPINI 33	10	TEMPINI 104	10
SOLINIT 163	0	TEMPINI 34	10	TEMPINI 105	10
SOLINIT 164	0	TEMPINI 35	10	TEMPINI 106	10
SOLINIT 165	0	TEMPINI 36	10	TEMPINI 107	10
SOLINIT 166	0	TEMPINI 37	10	TEMPINI 108	10
SOLINIT 167	0	TEMPINI 38	10	TEMPINI 109	10
SOLINIT 168	0	TEMPINI 39	10	TEMPINI 110	10
SOLINIT 169	0	TEMPINI 40	10	TEMPINI 111	10
SOLINIT 170	0	TEMPINI 41	10	TEMPINI 112	10
SOLINIT 171	0	TEMPINI 42	10	TEMPINI 113	10
SOLINIT 172	0	TEMPINI 43	10	TEMPINI 114	10
SOLINIT 173	0	TEMPINI 44	10	TEMPINI 115	10
SOLINIT 174	0	TEMPINI 45	10	TEMPINI 116	10
SOLINIT 175	0	TEMPINI 46	10	TEMPINI 117	10
SOLINIT 176	0	TEMPINI 47	10	TEMPINI 118	10
SOLINIT 177	0	TEMPINI 48	10	TEMPINI 119	10
SOLINIT 178	0	TEMPINI 49	10	TEMPINI 120	10
SOLINIT 179	0	TEMPINI 50	10	TEMPINI 121	10
SOLINIT 180	0	TEMPINI 51	10	TEMPINI 122	10
SOLINIT 181	0	TEMPINI 52	10	TEMPINI 123	10
SOLINIT 182	0	TEMPINI 53	10	TEMPINI 124	10
SOLINIT 183	0	TEMPINI 54	10	TEMPINI 125	10
SOLINIT 184	0	TEMPINI 55	10	TEMPINI 126	10
SOLINIT 185	0	TEMPINI 56	10	TEMPINI 127	10
SOLINIT 186	0	TEMPINI 57	10	TEMPINI 128	10
SOLINIT 187	0	TEMPINI 58	10	TEMPINI 129	10
SOLINIT 188	0	TEMPINI 59	10	TEMPINI 130	10
SOLINIT 189	0	TEMPINI 60	10	TEMPINI 131	10
SOLINIT 190	0	TEMPINI 61	10	TEMPINI 132	10
SOLINIT 191	0	TEMPINI 62	10	TEMPINI 133	10
SOLINIT 192	0	TEMPINI 63	10	TEMPINI 134	10
SOLINIT 193	0	TEMPINI 64	10	TEMPINI 135	10
SOLINIT 194	0	TEMPINI 65	10	TEMPINI 136	10
SOLINIT 195	0	TEMPINI 66	10	TEMPINI 137	10
SOLINIT 196	0	TEMPINI 67	10	TEMPINI 138	10
SOLINIT 197	0	TEMPINI 68	10	TEMPINI 139	10
SOLINIT 198	0	TEMPINI 69	10	TEMPINI 140	10
SOLINIT 199	0	TEMPINI 70	10	TEMPINI 141	10
SOLINIT 200	0	TEMPINI 71	10	TEMPINI 142	10
TEMPINI 1	10	TEMPINI 72	10	TEMPINI 143	10
TEMPINI 2	10	TEMPINI 73	10	TEMPINI 144	10
TEMPINI 3	10	TEMPINI 74	10	TEMPINI 145	10
TEMPINI 4	10	TEMPINI 75	10	TEMPINI 146	10
TEMPINI 5	10	TEMPINI 76	10	TEMPINI 147	10
TEMPINI 6	10	TEMPINI 77	10	TEMPINI 148	10
TEMPINI 7	10	TEMPINI 78	10	TEMPINI 149	10
TEMPINI 8	10	TEMPINI 79	10	TEMPINI 150	10
TEMPINI 9	10	TEMPINI 80	10	TEMPINI 151	10
TEMPINI 10	10	TEMPINI 81	10	TEMPINI 152	10
TEMPINI 11	10	TEMPINI 82	10	TEMPINI 153	10
TEMPINI 12	10	TEMPINI 83	10	TEMPINI 154	10
TEMPINI 13	10	TEMPINI 84	10	TEMPINI 155	10
TEMPINI 14	10	TEMPINI 85	10	TEMPINI 156	10
TEMPINI 15	10	TEMPINI 86	10	TEMPINI 157	10
TEMPINI 16	10	TEMPINI 87	10	TEMPINI 158	10
TEMPINI 17	10	TEMPINI 88	10	TEMPINI 159	10
TEMPINI 18	10	TEMPINI 89	10	TEMPINI 160	10
TEMPINI 19	10	TEMPINI 90	10	TEMPINI 161	10
TEMPINI 20	10	TEMPINI 91	10	TEMPINI 162	10
TEMPINI 21	10	TEMPINI 92	10	TEMPINI 163	10
TEMPINI 22	10	TEMPINI 93	10	TEMPINI 164	10

TEMPINI 165	10		THETAINI	36	0	THETAINI	107	0
TEMPINI 166	10		THETAINI	37	0	THETAINI	108	0
TEMPINI 167	10		THETAINI	38	0	THETAINI	109	0
TEMPINI 168	10		THETAINI	39	0	THETAINI	110	0
TEMPINI 169	10		THETAINI	40	0	THETAINI	111	0
TEMPINI 170	10		THETAINI	41	0	THETAINI	112	0
TEMPINI 171	10		THETAINI	42	0	THETAINI	113	0
TEMPINI 172	10		THETAINI	43	0	THETAINI	114	0
TEMPINI 173	10		THETAINI	44	0	THETAINI	115	0
TEMPINI 174	10		THETAINI	45	0	THETAINI	116	0
TEMPINI 175	10		THETAINI	46	0	THETAINI	117	0
TEMPINI 176	10		THETAINI	47	0	THETAINI	118	0
TEMPINI 177	10		THETAINI	48	0	THETAINI	119	0
TEMPINI 178	10		THETAINI	49	0	THETAINI	120	0
TEMPINI 179	10		THETAINI	50	0	THETAINI	121	0
TEMPINI 180	10		THETAINI	51	0	THETAINI	122	0
TEMPINI 181	10		THETAINI	52	0	THETAINI	123	0
TEMPINI 182	10		THETAINI	53	0	THETAINI	124	0
TEMPINI 183	10		THETAINI	54	0	THETAINI	125	0
TEMPINI 184	10		THETAINI	55	0	THETAINI	126	0
TEMPINI 185	10		THETAINI	56	0	THETAINI	127	0
TEMPINI 186	10		THETAINI	57	0	THETAINI	128	0
TEMPINI 187	10		THETAINI	58	0	THETAINI	129	0
TEMPINI 188	10		THETAINI	59	0	THETAINI	130	0
TEMPINI 189	10		THETAINI	60	0	THETAINI	131	0
TEMPINI 190	10		THETAINI	61	0	THETAINI	132	0
TEMPINI 191	10		THETAINI	62	0	THETAINI	133	0
TEMPINI 192	10		THETAINI	63	0	THETAINI	134	0
TEMPINI 193	10		THETAINI	64	0	THETAINI	135	0
TEMPINI 194	10		THETAINI	65	0	THETAINI	136	0
TEMPINI 195	10		THETAINI	66	0	THETAINI	137	0
TEMPINI 196	10		THETAINI	67	0	THETAINI	138	0
TEMPINI 197	10		THETAINI	68	0	THETAINI	139	0
TEMPINI 198	10		THETAINI	69	0	THETAINI	140	0
TEMPINI 199	10		THETAINI	70	0	THETAINI	141	0
TEMPINI 200	10		THETAINI	71	0	THETAINI	142	0
THETAINI	1	0	THETAINI	72	0	THETAINI	143	0
THETAINI	2	0	THETAINI	73	0	THETAINI	144	0
THETAINI	3	0	THETAINI	74	0	THETAINI	145	0
THETAINI	4	0	THETAINI	75	0	THETAINI	146	0
THETAINI	5	0	THETAINI	76	0	THETAINI	147	0
THETAINI	6	0	THETAINI	77	0	THETAINI	148	0
THETAINI	7	0	THETAINI	78	0	THETAINI	149	0
THETAINI	8	0	THETAINI	79	0	THETAINI	150	0
THETAINI	9	0	THETAINI	80	0	THETAINI	151	0
THETAINI	10	0	THETAINI	81	0	THETAINI	152	0
THETAINI	11	0	THETAINI	82	0	THETAINI	153	0
THETAINI	12	0	THETAINI	83	0	THETAINI	154	0
THETAINI	13	0	THETAINI	84	0	THETAINI	155	0
THETAINI	14	0	THETAINI	85	0	THETAINI	156	0
THETAINI	15	0	THETAINI	86	0	THETAINI	157	0
THETAINI	16	0	THETAINI	87	0	THETAINI	158	0
THETAINI	17	0	THETAINI	88	0	THETAINI	159	0
THETAINI	18	0	THETAINI	89	0	THETAINI	160	0
THETAINI	19	0	THETAINI	90	0	THETAINI	161	0
THETAINI	20	0	THETAINI	91	0	THETAINI	162	0
THETAINI	21	0	THETAINI	92	0	THETAINI	163	0
THETAINI	22	0	THETAINI	93	0	THETAINI	164	0
THETAINI	23	0	THETAINI	94	0	THETAINI	165	0
THETAINI	24	0	THETAINI	95	0	THETAINI	166	0
THETAINI	25	0	THETAINI	96	0	THETAINI	167	0
THETAINI	26	0	THETAINI	97	0	THETAINI	168	0
THETAINI	27	0	THETAINI	98	0	THETAINI	169	0
THETAINI	28	0	THETAINI	99	0	THETAINI	170	0
THETAINI	29	0	THETAINI	100	0	THETAINI	171	0
THETAINI	30	0	THETAINI	101	0	THETAINI	172	0
THETAINI	31	0	THETAINI	102	0	THETAINI	173	0
THETAINI	32	0	THETAINI	103	0	THETAINI	174	0
THETAINI	33	0	THETAINI	104	0	THETAINI	175	0
THETAINI	34	0	THETAINI	105	0	THETAINI	176	0
THETAINI	35	0	THETAINI	106	0	THETAINI	177	0

THETA INI	178	0	THETA INI	194	0	Scenario : Chateaudun Groundwater
THETA INI	179	0	THETA INI	195	0	
THETA INI	180	0	THETA INI	196	0	Simulation from 19010101 to 19270101, application every year (6 year warm-up)
THETA INI	181	0	THETA INI	197	0	
THETA INI	182	0	THETA INI	198	0	
THETA INI	183	0	THETA INI	199	0	
THETA INI	184	0	THETA INI	200	0	
THETA INI	185	0	*****			
THETA INI	186	0	INFORMATION			Crop : Cereals, winter,
THETA INI	187	0	MACRO in FOCUS Version			irrigated
THETA INI	188	0	5.5.4			
THETA INI	189	0	Output File =			Number of applications : 1
THETA INI	190	0	C:\SWASH\macro\Multi_GW\Pa			
THETA INI	191	0	3M2_ID001\macro001.bin			Application 1 : 60 g/ha of
THETA INI	192	0	Type of compound = parent			Pa3M2 on day 96
THETA INI	193	0	Compound : Pa3M2			

Listing 10: Tier 1a – Representative *.par file for M2 (metabolite) for MACRO 5.5.4 – 60 g/ha to Spring Cereals at BBCH 11 for Châteaudun scenario

```

NUMERICAL LAYERS      200      TPORV   3      44
GENERAL PARAMETERS    TPORV   4      44
RUNID   3              TPORV   5      44
NUMERICAL LAYERS      200      TPORV   6      49
NHORIZON   6           TRAPAIR 1      0
NLAYER 200            TRAPAIR 2      0
*****              TRAPAIR 3      0
*****              TRAPAIR 4      0
*****              TRAPAIR 5      0
*****              TRAPAIR 6      0
PHYSICAL PARAMETERS  TRAPAIR 6      0
NHORIZONS   6         WILT   1      25.8
ALPHA   1      0.05      WILT   2      23.7
ALPHA   2      0.05      WILT   3      23.7
ALPHA   3      0.05      WILT   4      18.8
ALPHA   4      0.015     WILT   5      18.8
ALPHA   5      0.015     WILT   6      15
ALPHA   6      0.0107    WILT   6      15
ASCALE   1      10      XMPOR   1      41
ASCALE   2      75      XMPOR   2      43
ASCALE   3      75      XMPOR   3      43
ASCALE   4      1       XMPOR   4      43
ASCALE   5      1       XMPOR   5      43
ASCALE   6      4       XMPOR   6      47
CTEN     1      20      ZA     1      1
CTEN     2      20      ZA     2      1
CTEN     3      20      ZA     3      1
CTEN     4      40      ZA     4      1
CTEN     5      40      ZA     5      1
CTEN     6      30      ZA     6      1
GAMMA    1      1.3     ZM     1      -0.5
GAMMA    2      1.41    ZM     2      -0.5
GAMMA    3      1.41    ZM     3      1.5
GAMMA    4      1.37    ZM     4      -4
GAMMA    5      1.37    ZM     5      -4
GAMMA    6      1.41    ZM     6      -3.5
KSATMIN  1      72      ZN     1      3
KSATMIN  2      108     ZN     2      3
KSATMIN  3      180     ZN     3      3
KSATMIN  4      43      ZN     4      2
KSATMIN  5      43      ZN     5      2
KSATMIN  6      33      ZN     6      2
KSM       1      0.25   ZP     1      0
KSM       2      0.5    ZP     2      0
KSM       3      1      ZP     3      0
KSM       4      1      ZP     4      0
KSM       5      1      ZP     5      0
KSM       6      3.25   ZP     6      0
*****
N         1      1.07
N         2      1.09
N         3      1.09
N         4      1.14
N         5      1.14
N         6      1.19
RESID    1      0
RESID    2      0
RESID    3      0
RESID    4      0
RESID    5      0
RESID    6      0
STONE    1      0
STONE    2      0
STONE    3      0
STONE    4      0
STONE    5      0
STONE    6      0
TPORV    1      43
TPORV    2      44
*****
TPORV    3      44
TPORV    4      44
TPORV    5      44
TPORV    6      49
TRAPAIR  1      0
TRAPAIR  2      0
TRAPAIR  3      0
TRAPAIR  4      0
TRAPAIR  5      0
TRAPAIR  6      0
WILT      1      25.8
WILT      2      23.7
WILT      3      23.7
WILT      4      18.8
WILT      5      18.8
WILT      6      15
XMPOR     1      41
XMPOR     2      43
XMPOR     3      43
XMPOR     4      43
XMPOR     5      43
XMPOR     6      47
ZA         1      1
ZA         2      1
ZA         3      1
ZA         4      1
ZA         5      1
ZA         6      1
ZM         1      -0.5
ZM         2      -0.5
ZM         3      1.5
ZM         4      -4
ZM         5      -4
ZM         6      -3.5
ZN         1      3
ZN         2      3
ZN         3      3
ZN         4      2
ZN         5      2
ZN         6      2
ZP         1      0
ZP         2      0
ZP         3      0
ZP         4      0
ZP         5      0
ZP         6      0
*****
*****
PROPERTIES
NHORIZONS   6
CLAY        1      30
CLAY        2      31
CLAY        3      25
CLAY        4      26
CLAY        5      24
CLAY        6      31
HTICK       1      25
HTICK       2      25
HTICK       3      10
HTICK       4      40
HTICK       5      20
HTICK       6      70
NLAYER      1      26
NLAYER      2      26
NLAYER      3      10
NLAYER      4      42
*****
*****
NLAYER 5      21
NLAYER 6      75
ORGC    1      1.39
ORGC    2      0.93
ORGC    3      0.7
ORGC    4      0.3
ORGC    5      0.3
ORGC    6      0.27
THICKNESS 1      25
THICKNESS 2      25
THICKNESS 3      10
THICKNESS 4      40
THICKNESS 5      20
THICKNESS 6      70
*****
*****
OPTIONS
AVERAGET      1
AVERAGEX      2
BOUNDARY      4
CHAPAR   0
CROP      2
CRUST     0
DEGKIN    0
DRIVING   1
EVAPORATE 1
INITIAL   1
IRRIGATE  1
KINETIC   0
MASSUNITS 2
METABOLITE 0
RAINFALL  1
SOLUTE    2
TEMPINI    0
TILEDRAIN  2
VARTENSION 0
*****
*****
SOLUTE PARAMETERS
CANDEG   0
CONC     0
DIFF     4.976852E-10
DV        5
EXPB     0.49
FCONVERT 0.3697259
FEXT      0
FRACEQ    0
FRACK     0
FRACMAC   0.02
FSTAR     0
PF1       2
PF2       0
SORPRATE  0
TREF      20
TRESP     0.0948
KOC       1.539532
ZMIX      1
NHORIZONS 6
AEXC      1      0
AEXC      2      0
AEXC      3      0
AEXC      4      0
AEXC      5      0
AEXC      6      0
DEGMAL    1      0.2044682
DEGMAL    2      0.1022341

```

DEGMAL 3	0.1022341	ZHMIN 1	0	IRRIGNO 1
DEGMAL 4	0.06134046	*****		IRRDAY 72
DEGMAL 5	0	*****		IRRSTART 9
DEGMAL 6	0	SITE PARAMETERS		IRREND 9.2
DEGMAS 1	0.2044682	ALBEDO 0.25		AMIR 0.1
DEGMAS 2	0.1022341	ANNAMP 7.7		CONCI 0
DEGMAS 3	0.1022341	ANNTAV 11.9		ZFINT 0
DEGMAS 4	0.06134046	DRAINDEP 0		IRRYEAR 7
DEGMAS 5	0	DWRL 0		NIRRIGATIONS 1
DEGMAS 6	0	LAYERD 0		IRRIGNO 1
DEGMIL 1	0.2044682	PHI 48.1		IRRDAY 72
DEGMIL 2	0.1022341	RAINCO 1		IRRSTART 9
DEGMIL 3	0.1022341	RGWFLOW 0		IRREND 9.2
DEGMIL 4	0.06134046	RINTEN 2		AMIR 0.1
DEGMIL 5	0	SNOWCO 1		CONCI 0
DEGMIL 6	0	SNOWMF 4.5		ZFINT 0
DEGMIS 1	0.2044682	SPACE 0		IRRYEAR 8
DEGMIS 2	0.1022341	ZMET 10		NIRRIGATIONS 1
DEGMIS 3	0.1022341	*****		IRRIGNO 1
DEGMIS 4	0.06134046	*****		IRRDAY 72
DEGMIS 5	0	IRRIGATION PARAMETERS		IRRSTART 9
DEGMIS 6	0	IRRSAME True		IRREND 9.2
FREUND 1	1.01	CRITDEF -1		AMIR 0.1
FREUND 2	1.01	IRRYEARS 26		CONCI 0
FREUND 3	1.01	IRRYEAR 1		ZFINT 0
FREUND 4	1.01	NIRRIGATIONS 1		IRRYEAR 9
FREUND 5	1.01	IRRIGNO 1		NIRRIGATIONS 1
FREUND 6	1.01	IRRDAY 72		IRRIGNO 1
ZKD 1	0.02139949	IRRSTART 9		IRRDAY 72
ZKD 2	0.01431765	IRREND 9.2		IRRSTART 9
ZKD 3	0.01077672	AMIR 0.1		IRREND 9.2
ZKD 4	0.004618596	CONCI 0		AMIR 0.1
ZKD 5	0.004618596	ZFINT 0		CONCI 0
ZKD 6	0.004156736	IRRYEAR 2		ZFINT 0
*****		NIRRIGATIONS 1		IRRYEAR 10
*****		IRRIGNO 1		NIRRIGATIONS 1
CROP PARAMETERS		IRRDAY 72		IRRIGNO 1
NCROPS 1		IRRSTART 9		IRRDAY 72
ATTEN 1	0.6	IRREND 9.2		IRRSTART 9
BETA 1	0.2	AMIR 0.1		IRREND 9.2
CANCAP 1	2	CONCI 0		AMIR 0.1
CFORM 1	2	ZFINT 0		CONCI 0
CRITAIR 1	5	IRRYEAR 3		ZFINT 0
DFORM 1	0.3	NIRRIGATIONS 1		IRRYEAR 11
FAWC 1	0.6536142	IRRIGNO 1		NIRRIGATIONS 1
HCROP 1	0	IRRDAY 72		IRRIGNO 1
HMAX 1	0	IRRSTART 9		IRRDAY 72
IDMAX 1	161	IRREND 9.2		IRRSTART 9
IDMAX2 1	0	AMIR 0.1		IRREND 9.2
IDSTART 1	69	CONCI 0		AMIR 0.1
IDSTART2 1	0	ZFINT 0		CONCI 0
IHARV 1	201	IRRYEAR 4		ZFINT 0
IHARV2 1	0	NIRRIGATIONS 1		IRRYEAR 12
LAIC 1	0	IRRIGNO 1		NIRRIGATIONS 1
LAIHAR 1	2	IRRDAY 72		IRRIGNO 1
LAIMAX 1	5	IRRSTART 9		IRRDAY 72
LAIMIN 1	0.01	IRREND 9.2		IRRSTART 9
NCROP 1	1	AMIR 0.1		IRREND 9.2
RI50 1	50	CONCI 0		AMIR 0.1
ROOTDEP 1	0	ZFINT 0		CONCI 0
ROOTINIT 1	1	IRRYEAR 5		ZFINT 0
0.01		NIRRIGATIONS 1		IRRYEAR 13
ROOTMAX 1	0.6	IRRIGNO 1		NIRRIGATIONS 1
RPIN 1	60	IRRDAY 72		IRRIGNO 1
RSMIN 1	0	IRRSTART 9		IRRDAY 72
RSURF 1	0	IRREND 9.2		IRRSTART 9
WATEN 1	20	AMIR 0.1		IRREND 9.2
VPD50 1	50	CONCI 0		AMIR 0.1
ZALP 1	1	ZFINT 0		CONCI 0
ZDATEMIN 1	70	IRRYEAR 6		ZFINT 0
ZDATEMIN2 1	0	NIRRIGATIONS 1		IRRYEAR 14

NIRRIGATIONS	1	IRRYEAR 22		ti_GW\M2_3a_ID003\bin\ckm6
IRRIGNO 1		NIRRIGATIONS	1	p.BIN
IRRDAY 72		IRRIGNO 1		TENSIONFILE (none)
IRRSTART	9	IRRDAY 72		TOTPHYSLAYER 200
IRREND 9.2		IRRSTART	9	*****
AMIR 0.1		IRREND 9.2		*****
CONCI 0		AMIR 0.1		TILLAGE PARAMETERS
ZFINT 0		CONCI 0		CRUSTSTA 0
IRRYEAR 15		ZFINT 0		DUMMY 0
NIRRIGATIONS	1	IRRYEAR 23		GAMMASEAL 0
IRRIGNO 1		NIRRIGATIONS	1	GAMMATILL 0
IRRDAY 72		IRRIGNO 1		HALFCRUS 0
IRRSTART	9	IRRDAY 72		HALFRAIN 0
IRREND 9.2		IRRSTART	9	KSMSEAL 0
AMIR 0.1		IRREND 9.2		KSMTILLE 0
CONCI 0		AMIR 0.1		MACDCH 0
ZFINT 0		CONCI 0		MACPCH 0
IRRYEAR 16		ZFINT 0		NTILL 0
NIRRIGATIONS	1	IRRYEAR 24		XMPOSEAL 0
IRRIGNO 1		NIRRIGATIONS	1	ZNSEAL 0
IRRDAY 72		IRRIGNO 1		*****
IRRSTART	9	IRRDAY 72		*****
IRREND 9.2		IRRSTART	9	OUTPUTS
AMIR 0.1		IRREND 9.2		NSINGLE 81
CONCI 0		AMIR 0.1		RRNRain -1 0 X
ZFINT 0		CONCI 0		ACCMELT -1 0 X
IRRYEAR 17		ZFINT 0		PWT -1 0 X
NIRRIGATIONS	1	IRRYEAR 25		INFILMI -1 0 X
IRRIGNO 1		NIRRIGATIONS	1	INFILMA -1 0 X
IRRDAY 72		IRRIGNO 1		CINFIL -1 0 X
IRRSTART	9	IRRDAY 72		RAIN -1 0 X
IRREND 9.2		IRRSTART	9	CETA -1 0 T
AMIR 0.1		IRREND 9.2		EPOT -1 0 T
CONCI 0		AMIR 0.1		CCEPOT -1 0 T
ZFINT 0		CONCI 0		CCETA -1 0 T
IRRYEAR 18		ZFINT 0		TPRECIP -1 0 T
NIRRIGATIONS	1	IRRYEAR 26		TTPRECIP -1 0
IRRIGNO 1		NIRRIGATIONS	1	T
IRRDAY 72		IRRIGNO 1		SSEEP 0 0 T
IRRSTART	9	IRRDAY 72		TSEEP 0 0 T
IRREND 9.2		IRRSTART	9	CRES -1 0 T
AMIR 0.1		IRREND 9.2		SRUNOFF -1 0 T
CONCI 0		AMIR 0.1		WWW -1 0 T
ZFINT 0		CONCI 0		TRUNOFF -1 1 T
IRRYEAR 19		ZFINT 0		TFLOWOUT -1 1
NIRRIGATIONS	1	*****		T
IRRIGNO 1		*****		TFLOW -1 0 T
IRRDAY 72		SETUP		TSTOREMI -1 1
IRRSTART	9	DATEFILE		T
IRREND 9.2		DRIVINGFILE		TSTOREMA -1 1
AMIR 0.1		macro002.bin		T
CONCI 0		DRIVINGPERIOD 01/01/1901-		PRECIRR -1 0 T
ZFINT 0		01/01/1927		PRECIRA -1 1 T
IRRYEAR 20		ENDDATE 1927-01-01 00:00		SEEPMI 0 0 T
NIRRIGATIONS	1	OUTPUTFILE		SEEPMIAC 0 0
IRRIGNO 1		macro003.bin		T
IRRDAY 72		METFILE		PSOIL -1 0 T
IRRSTART	9	C:\SWASH\macro\Mul		UPT -1 0 T
IRREND 9.2		ti_GW\M2_3a_ID003\bin\ckm6		CPSOIL -1 0 T
AMIR 0.1		et.BIN		CUPT -1 0 T
CONCI 0		METPERIOD 1901-01-01		ESOIL -1 0 T
ZFINT 0		00:00-1927-01-01 00:00		ETA -1 0 T
IRRYEAR 21		NUMLAYERS 0		WETACT -1 0 T
NIRRIGATIONS	1	OUTINTD 1		CESOIL -1 0 T
IRRIGNO 1		OUTINTM 0		CETC -1 0 T
IRRDAY 72		PERIODFILE10 (none)		CCET -1 1 T
IRRSTART	9	STARTDATE 1901-01-01		GSRAT 0 0 T
IRREND 9.2		00:00		GSTOT 0 0 T
AMIR 0.1		RAINFALLFILE		WATEREQ -1 0 T
CONCI 0		C:\SWASH\macro\Mul		BOTFLOW -1 0 G
ZFINT 0				

DRAINCON	0	0	17	0	3323	88	0	3323
G			18	0	3323	89	0	3323
TMAX -1	0	G	19	0	3323	90	0	3323
TMIN -1	0	G	20	0	3323	91	0	3323
SMICIN -1	0	G	21	0	3323	92	0	3323
SMACIN -1	0	G	22	0	3323	93	0	3323
GRCON 0	0	G	23	0	3323	94	0	3323
TAV -1	0	G	24	0	3323	95	0	3323
GLOBAL -1	0	G	25	0	3323	96	0	3323
TSOUT -1	1	D	26	0	3323	97	0	3323
TSS -1	0	D	27	0	3323	98	0	3323
SSS -1	0	D	28	0	3323	99	0	3323
TSRUN -1	1	D	29	0	3323	100	0	3323
TPAM -1	1	D	30	0	3323	101	0	3323
TCAM -1	1	D	31	0	3323	102	0	3323
TADMI -1	1	D	32	0	3323	103	0	3323
TADMA -1	1	D	33	0	3323	104	1	3323
TDEG -1	1	D	34	0	3323	105	0	3323
TUPT -1	1	D	35	0	3323	106	0	3323
SAMS -1	0	D	36	0	3323	107	0	3323
CDEG -1	0	D	37	0	3323	108	0	3323
DRAINLOS	0	0	38	0	3323	109	0	3323
D			39	0	3323	110	0	3323
DSOLTOSS	0	0	40	0	3323	111	0	3323
D			41	0	3323	112	0	3323
DSOLTMIC	0	0	42	0	3323	113	0	3323
D			43	0	3323	114	0	3323
TSOLTMIC	0	0	44	0	3323	115	0	3323
D			45	0	3323	116	0	3323
ELOSS 0	0	D	46	0	3323	117	0	3323
SSRAT 0	0	D	47	0	3323	118	0	3323
SSTOT 0	0	D	48	0	3323	119	0	3323
CFOUT 0	0	D	49	0	3323	120	0	3323
ACFOUT 0	0	D	50	0	3323	121	0	3323
TCOLLMA 0	0	D	51	0	3323	122	0	3323
TCOLLM I 0	0	D	52	0	3323	123	0	3323
CFDRAIN 0	0	D	53	0	3323	124	0	3323
ACFDRAIN	0	0	54	0	3323	125	0	3323
D			55	0	3323	126	0	3323
TDEC 0	0	D	56	0	3323	127	0	3323
TIMMOB 0	0	D	57	0	3323	128	0	3323
GENERATE	0	0	58	0	3323	129	0	3323
D			59	0	3323	130	0	3323
GSINK -1	0	D	60	0	3323	131	0	3323
CFDRS 0	0	D	61	0	3323	132	0	3323
ACFDRS 0	0	D	62	0	3323	133	0	3323
PC 0	0	D	63	0	3323	134	0	3323
NLAYERED	49		64	0	3323	135	0	3323
THETA -1	0	X	65	0	3323	136	0	3323
THETI -1	0	X	66	0	3323	137	0	3323
THETT -1	0	X	67	0	3323	138	0	3323
TMPOR -1	0	X	68	0	3323	139	0	3323
CPSI -1	0	X	69	0	3323	140	0	3323
ZUPTAKE -1	0	X	70	0	3323	141	0	3323
WOUT -1	1	X	71	0	3323	142	0	3323
1 0	3323		72	0	3323	143	0	3323
2 0	3323		73	0	3323	144	0	3323
3 0	3323		74	0	3323	145	0	3323
4 0	3323		75	0	3323	146	0	3323
5 0	3323		76	0	3323	147	0	3323
6 0	3323		77	0	3323	148	0	3323
7 0	3323		78	0	3323	149	0	3323
8 0	3323		79	0	3323	150	0	3323
9 0	3323		80	0	3323	151	0	3323
10 0	3323		81	0	3323	152	0	3323
11 0	3323		82	0	3323	153	0	3323
12 0	3323		83	0	3323	154	0	3323
13 0	3323		84	0	3323	155	0	3323
14 0	3323		85	0	3323	156	0	3323
15 0	3323		86	0	3323	157	0	3323
16 0	3323		87	0	3323	158	0	3323

159	0	3323		25	0	3326	96	0	3326
160	0	3323		26	0	3326	97	0	3326
161	0	3323		27	0	3326	98	0	3326
162	0	3323		28	0	3326	99	0	3326
163	0	3323		29	0	3326	100	0	3326
164	0	3323		30	0	3326	101	0	3326
165	0	3323		31	0	3326	102	0	3326
166	0	3323		32	0	3326	103	0	3326
167	0	3323		33	0	3326	104	1	3326
168	0	3323		34	0	3326	105	0	3326
169	0	3323		35	0	3326	106	0	3326
170	0	3323		36	0	3326	107	0	3326
171	0	3323		37	0	3326	108	0	3326
172	0	3323		38	0	3326	109	0	3326
173	0	3323		39	0	3326	110	0	3326
174	0	3323		40	0	3326	111	0	3326
175	0	3323		41	0	3326	112	0	3326
176	0	3323		42	0	3326	113	0	3326
177	0	3323		43	0	3326	114	0	3326
178	0	3323		44	0	3326	115	0	3326
179	0	3323		45	0	3326	116	0	3326
180	0	3323		46	0	3326	117	0	3326
181	0	3323		47	0	3326	118	0	3326
182	0	3323		48	0	3326	119	0	3326
183	0	3323		49	0	3326	120	0	3326
184	0	3323		50	0	3326	121	0	3326
185	0	3323		51	0	3326	122	0	3326
186	0	3323		52	0	3326	123	0	3326
187	0	3323		53	0	3326	124	0	3326
188	0	3323		54	0	3326	125	0	3326
189	0	3323		55	0	3326	126	0	3326
190	0	3323		56	0	3326	127	0	3326
191	0	3323		57	0	3326	128	0	3326
192	0	3323		58	0	3326	129	0	3326
193	0	3323		59	0	3326	130	0	3326
194	0	3323		60	0	3326	131	0	3326
195	0	3323		61	0	3326	132	0	3326
196	0	3323		62	0	3326	133	0	3326
197	0	3323		63	0	3326	134	0	3326
198	0	3323		64	0	3326	135	0	3326
199	0	3323		65	0	3326	136	0	3326
200	0	3323		66	0	3326	137	0	3326
EXCHANGE	-1	0		67	0	3326	138	0	3326
X				68	0	3326	139	0	3326
THETAMA -1	0	X		69	0	3326	140	0	3326
WFLOWOUT	-1	1		70	0	3326	141	0	3326
X				71	0	3326	142	0	3326
1	0	3326		72	0	3326	143	0	3326
2	0	3326		73	0	3326	144	0	3326
3	0	3326		74	0	3326	145	0	3326
4	0	3326		75	0	3326	146	0	3326
5	0	3326		76	0	3326	147	0	3326
6	0	3326		77	0	3326	148	0	3326
7	0	3326		78	0	3326	149	0	3326
8	0	3326		79	0	3326	150	0	3326
9	0	3326		80	0	3326	151	0	3326
10	0	3326		81	0	3326	152	0	3326
11	0	3326		82	0	3326	153	0	3326
12	0	3326		83	0	3326	154	0	3326
13	0	3326		84	0	3326	155	0	3326
14	0	3326		85	0	3326	156	0	3326
15	0	3326		86	0	3326	157	0	3326
16	0	3326		87	0	3326	158	0	3326
17	0	3326		88	0	3326	159	0	3326
18	0	3326		89	0	3326	160	0	3326
19	0	3326		90	0	3326	161	0	3326
20	0	3326		91	0	3326	162	0	3326
21	0	3326		92	0	3326	163	0	3326
22	0	3326		93	0	3326	164	0	3326
23	0	3326		94	0	3326	165	0	3326
24	0	3326		95	0	3326	166	0	3326

167	0	3326		30	0	3333	101	0	3333
168	0	3326		31	0	3333	102	0	3333
169	0	3326		32	0	3333	103	0	3333
170	0	3326		33	0	3333	104	1	3333
171	0	3326		34	0	3333	105	0	3333
172	0	3326		35	0	3333	106	0	3333
173	0	3326		36	0	3333	107	0	3333
174	0	3326		37	0	3333	108	0	3333
175	0	3326		38	0	3333	109	0	3333
176	0	3326		39	0	3333	110	0	3333
177	0	3326		40	0	3333	111	0	3333
178	0	3326		41	0	3333	112	0	3333
179	0	3326		42	0	3333	113	0	3333
180	0	3326		43	0	3333	114	0	3333
181	0	3326		44	0	3333	115	0	3333
182	0	3326		45	0	3333	116	0	3333
183	0	3326		46	0	3333	117	0	3333
184	0	3326		47	0	3333	118	0	3333
185	0	3326		48	0	3333	119	0	3333
186	0	3326		49	0	3333	120	0	3333
187	0	3326		50	0	3333	121	0	3333
188	0	3326		51	0	3333	122	0	3333
189	0	3326		52	0	3333	123	0	3333
190	0	3326		53	0	3333	124	0	3333
191	0	3326		54	0	3333	125	0	3333
192	0	3326		55	0	3333	126	0	3333
193	0	3326		56	0	3333	127	0	3333
194	0	3326		57	0	3333	128	0	3333
195	0	3326		58	0	3333	129	0	3333
196	0	3326		59	0	3333	130	0	3333
197	0	3326		60	0	3333	131	0	3333
198	0	3326		61	0	3333	132	0	3333
199	0	3326		62	0	3333	133	0	3333
200	0	3326		63	0	3333	134	0	3333
DRAINFL0	-1	0		64	0	3333	135	0	3333
X				65	0	3333	136	0	3333
DRAINMI -1	0	X		66	0	3333	137	0	3333
THETAM -1	0	X		67	0	3333	138	0	3333
TEMP -1	0	G		68	0	3333	139	0	3333
SOLMIC -1	0	G		69	0	3333	140	0	3333
SOLMAC -1	0	G		70	0	3333	141	0	3333
SFLOW -1	1	G		71	0	3333	142	0	3333
1	0	3333		72	0	3333	143	0	3333
2	0	3333		73	0	3333	144	0	3333
3	0	3333		74	0	3333	145	0	3333
4	0	3333		75	0	3333	146	0	3333
5	0	3333		76	0	3333	147	0	3333
6	0	3333		77	0	3333	148	0	3333
7	0	3333		78	0	3333	149	0	3333
8	0	3333		79	0	3333	150	0	3333
9	0	3333		80	0	3333	151	0	3333
10	0	3333		81	0	3333	152	0	3333
11	0	3333		82	0	3333	153	0	3333
12	0	3333		83	0	3333	154	0	3333
13	0	3333		84	0	3333	155	0	3333
14	0	3333		85	0	3333	156	0	3333
15	0	3333		86	0	3333	157	0	3333
16	0	3333		87	0	3333	158	0	3333
17	0	3333		88	0	3333	159	0	3333
18	0	3333		89	0	3333	160	0	3333
19	0	3333		90	0	3333	161	0	3333
20	0	3333		91	0	3333	162	0	3333
21	0	3333		92	0	3333	163	0	3333
22	0	3333		93	0	3333	164	0	3333
23	0	3333		94	0	3333	165	0	3333
24	0	3333		95	0	3333	166	0	3333
25	0	3333		96	0	3333	167	0	3333
26	0	3333		97	0	3333	168	0	3333
27	0	3333		98	0	3333	169	0	3333
28	0	3333		99	0	3333	170	0	3333
29	0	3333		100	0	3333	171	0	3333

172	0	3333		41	0	3334		112	0	3334
173	0	3333		42	0	3334		113	0	3334
174	0	3333		43	0	3334		114	0	3334
175	0	3333		44	0	3334		115	0	3334
176	0	3333		45	0	3334		116	0	3334
177	0	3333		46	0	3334		117	0	3334
178	0	3333		47	0	3334		118	0	3334
179	0	3333		48	0	3334		119	0	3334
180	0	3333		49	0	3334		120	0	3334
181	0	3333		50	0	3334		121	0	3334
182	0	3333		51	0	3334		122	0	3334
183	0	3333		52	0	3334		123	0	3334
184	0	3333		53	0	3334		124	0	3334
185	0	3333		54	0	3334		125	0	3334
186	0	3333		55	0	3334		126	0	3334
187	0	3333		56	0	3334		127	0	3334
188	0	3333		57	0	3334		128	0	3334
189	0	3333		58	0	3334		129	0	3334
190	0	3333		59	0	3334		130	0	3334
191	0	3333		60	0	3334		131	0	3334
192	0	3333		61	0	3334		132	0	3334
193	0	3333		62	0	3334		133	0	3334
194	0	3333		63	0	3334		134	0	3334
195	0	3333		64	0	3334		135	0	3334
196	0	3333		65	0	3334		136	0	3334
197	0	3333		66	0	3334		137	0	3334
198	0	3333		67	0	3334		138	0	3334
199	0	3333		68	0	3334		139	0	3334
200	0	3333		69	0	3334		140	0	3334
SFLOWOUT		-1	1	70	0	3334		141	0	3334
G				71	0	3334		142	0	3334
1	0	3334		72	0	3334		143	0	3334
2	0	3334		73	0	3334		144	0	3334
3	0	3334		74	0	3334		145	0	3334
4	0	3334		75	0	3334		146	0	3334
5	0	3334		76	0	3334		147	0	3334
6	0	3334		77	0	3334		148	0	3334
7	0	3334		78	0	3334		149	0	3334
8	0	3334		79	0	3334		150	0	3334
9	0	3334		80	0	3334		151	0	3334
10	0	3334		81	0	3334		152	0	3334
11	0	3334		82	0	3334		153	0	3334
12	0	3334		83	0	3334		154	0	3334
13	0	3334		84	0	3334		155	0	3334
14	0	3334		85	0	3334		156	0	3334
15	0	3334		86	0	3334		157	0	3334
16	0	3334		87	0	3334		158	0	3334
17	0	3334		88	0	3334		159	0	3334
18	0	3334		89	0	3334		160	0	3334
19	0	3334		90	0	3334		161	0	3334
20	0	3334		91	0	3334		162	0	3334
21	0	3334		92	0	3334		163	0	3334
22	0	3334		93	0	3334		164	0	3334
23	0	3334		94	0	3334		165	0	3334
24	0	3334		95	0	3334		166	0	3334
25	0	3334		96	0	3334		167	0	3334
26	0	3334		97	0	3334		168	0	3334
27	0	3334		98	0	3334		169	0	3334
28	0	3334		99	0	3334		170	0	3334
29	0	3334		100	0	3334		171	0	3334
30	0	3334		101	0	3334		172	0	3334
31	0	3334		102	0	3334		173	0	3334
32	0	3334		103	0	3334		174	0	3334
33	0	3334		104	1	3334		175	0	3334
34	0	3334		105	0	3334		176	0	3334
35	0	3334		106	0	3334		177	0	3334
36	0	3334		107	0	3334		178	0	3334
37	0	3334		108	0	3334		179	0	3334
38	0	3334		109	0	3334		180	0	3334
39	0	3334		110	0	3334		181	0	3334
40	0	3334		111	0	3334		182	0	3334

183	0	3334		SOLINIT 11	0	SOLINIT 82	0
184	0	3334		SOLINIT 12	0	SOLINIT 83	0
185	0	3334		SOLINIT 13	0	SOLINIT 84	0
186	0	3334		SOLINIT 14	0	SOLINIT 85	0
187	0	3334		SOLINIT 15	0	SOLINIT 86	0
188	0	3334		SOLINIT 16	0	SOLINIT 87	0
189	0	3334		SOLINIT 17	0	SOLINIT 88	0
190	0	3334		SOLINIT 18	0	SOLINIT 89	0
191	0	3334		SOLINIT 19	0	SOLINIT 90	0
192	0	3334		SOLINIT 20	0	SOLINIT 91	0
193	0	3334		SOLINIT 21	0	SOLINIT 92	0
194	0	3334		SOLINIT 22	0	SOLINIT 93	0
195	0	3334		SOLINIT 23	0	SOLINIT 94	0
196	0	3334		SOLINIT 24	0	SOLINIT 95	0
197	0	3334		SOLINIT 25	0	SOLINIT 96	0
198	0	3334		SOLINIT 26	0	SOLINIT 97	0
199	0	3334		SOLINIT 27	0	SOLINIT 98	0
200	0	3334		SOLINIT 28	0	SOLINIT 99	0
CEXCH	-1	0	D	SOLINIT 29	0	SOLINIT 100	0
DEGMIC	1	0	G	SOLINIT 30	0	SOLINIT 101	0
DEGMAC	1	0	G	SOLINIT 31	0	SOLINIT 102	0
SOLIMOB	-1	0	G	SOLINIT 32	0	SOLINIT 103	0
PAM	-1	0	D	SOLINIT 33	0	SOLINIT 104	0
CAM	-1	0	D	SOLINIT 34	0	SOLINIT 105	0
ADMI	-1	0	D	SOLINIT 35	0	SOLINIT 106	0
ADMA	-1	0	D	SOLINIT 36	0	SOLINIT 107	0
PAMT	-1	0	D	SOLINIT 37	0	SOLINIT 108	0
CAMT	-1	0	D	SOLINIT 38	0	SOLINIT 109	0
PCAA	-1	0	D	SOLINIT 39	0	SOLINIT 110	0
COLCMI	-1	0	D	SOLINIT 40	0	SOLINIT 111	0
COLCMA	-1	0	D	SOLINIT 41	0	SOLINIT 112	0
SFDMI	-1	0	D	SOLINIT 42	0	SOLINIT 113	0
SFDMA	-1	0	D	SOLINIT 43	0	SOLINIT 114	0
ZAM	-1	0	D	SOLINIT 44	0	SOLINIT 115	0
SFSDMA	-1	0	D	SOLINIT 45	0	SOLINIT 116	0
SFSDMI	-1	0	D	SOLINIT 46	0	SOLINIT 117	0
GAMMA	-1	0	GP	SOLINIT 47	0	SOLINIT 118	0
Z	-1	0	GP	SOLINIT 48	0	SOLINIT 119	0
XMPOR	-1	0	GP	SOLINIT 49	0	SOLINIT 120	0
ALPHA	-1	0	GP	SOLINIT 50	0	SOLINIT 121	0
KSM	-1	0	GP	SOLINIT 51	0	SOLINIT 122	0
ZN	-1	0	GP	SOLINIT 52	0	SOLINIT 123	0
ASCALE	-1	0	GP	SOLINIT 53	0	SOLINIT 124	0
TRAP_AIR	-1	0		SOLINIT 54	0	SOLINIT 125	0
GP				SOLINIT 55	0	SOLINIT 126	0
TSEXT	-1	0	GP	SOLINIT 56	0	SOLINIT 127	0
KSATMIN	-1	0	GP	SOLINIT 57	0	SOLINIT 128	0
TPORV	-1	0	GP	SOLINIT 58	0	SOLINIT 129	0
ADMI_KIN	-1	0		SOLINIT 59	0	SOLINIT 130	0
D				SOLINIT 60	0	SOLINIT 131	0
*****				SOLINIT 61	0	SOLINIT 132	0
*****				SOLINIT 62	0	SOLINIT 133	0
BOUNDARY AND INITIAL				SOLINIT 63	0	SOLINIT 134	0
CONDITIONS				SOLINIT 64	0	SOLINIT 135	0
AREA	0			SOLINIT 65	0	SOLINIT 136	0
BGRAD	0			SOLINIT 66	0	SOLINIT 137	0
BOTEN	1010			SOLINIT 67	0	SOLINIT 138	0
CONCIN	0			SOLINIT 68	0	SOLINIT 139	0
CONSTSTA	0			SOLINIT 69	0	SOLINIT 140	0
GWFLUX	0			SOLINIT 70	0	SOLINIT 141	0
IASCALE	0			SOLINIT 71	0	SOLINIT 142	0
SOLINIT 1	0			SOLINIT 72	0	SOLINIT 143	0
SOLINIT 2	0			SOLINIT 73	0	SOLINIT 144	0
SOLINIT 3	0			SOLINIT 74	0	SOLINIT 145	0
SOLINIT 4	0			SOLINIT 75	0	SOLINIT 146	0
SOLINIT 5	0			SOLINIT 76	0	SOLINIT 147	0
SOLINIT 6	0			SOLINIT 77	0	SOLINIT 148	0
SOLINIT 7	0			SOLINIT 78	0	SOLINIT 149	0
SOLINIT 8	0			SOLINIT 79	0	SOLINIT 150	0
SOLINIT 9	0			SOLINIT 80	0	SOLINIT 151	0
SOLINIT 10	0			SOLINIT 81	0	SOLINIT 152	0

SOLINIT 153	0	TEMPINI 24	10	TEMPINI 95	10
SOLINIT 154	0	TEMPINI 25	10	TEMPINI 96	10
SOLINIT 155	0	TEMPINI 26	10	TEMPINI 97	10
SOLINIT 156	0	TEMPINI 27	10	TEMPINI 98	10
SOLINIT 157	0	TEMPINI 28	10	TEMPINI 99	10
SOLINIT 158	0	TEMPINI 29	10	TEMPINI 100	10
SOLINIT 159	0	TEMPINI 30	10	TEMPINI 101	10
SOLINIT 160	0	TEMPINI 31	10	TEMPINI 102	10
SOLINIT 161	0	TEMPINI 32	10	TEMPINI 103	10
SOLINIT 162	0	TEMPINI 33	10	TEMPINI 104	10
SOLINIT 163	0	TEMPINI 34	10	TEMPINI 105	10
SOLINIT 164	0	TEMPINI 35	10	TEMPINI 106	10
SOLINIT 165	0	TEMPINI 36	10	TEMPINI 107	10
SOLINIT 166	0	TEMPINI 37	10	TEMPINI 108	10
SOLINIT 167	0	TEMPINI 38	10	TEMPINI 109	10
SOLINIT 168	0	TEMPINI 39	10	TEMPINI 110	10
SOLINIT 169	0	TEMPINI 40	10	TEMPINI 111	10
SOLINIT 170	0	TEMPINI 41	10	TEMPINI 112	10
SOLINIT 171	0	TEMPINI 42	10	TEMPINI 113	10
SOLINIT 172	0	TEMPINI 43	10	TEMPINI 114	10
SOLINIT 173	0	TEMPINI 44	10	TEMPINI 115	10
SOLINIT 174	0	TEMPINI 45	10	TEMPINI 116	10
SOLINIT 175	0	TEMPINI 46	10	TEMPINI 117	10
SOLINIT 176	0	TEMPINI 47	10	TEMPINI 118	10
SOLINIT 177	0	TEMPINI 48	10	TEMPINI 119	10
SOLINIT 178	0	TEMPINI 49	10	TEMPINI 120	10
SOLINIT 179	0	TEMPINI 50	10	TEMPINI 121	10
SOLINIT 180	0	TEMPINI 51	10	TEMPINI 122	10
SOLINIT 181	0	TEMPINI 52	10	TEMPINI 123	10
SOLINIT 182	0	TEMPINI 53	10	TEMPINI 124	10
SOLINIT 183	0	TEMPINI 54	10	TEMPINI 125	10
SOLINIT 184	0	TEMPINI 55	10	TEMPINI 126	10
SOLINIT 185	0	TEMPINI 56	10	TEMPINI 127	10
SOLINIT 186	0	TEMPINI 57	10	TEMPINI 128	10
SOLINIT 187	0	TEMPINI 58	10	TEMPINI 129	10
SOLINIT 188	0	TEMPINI 59	10	TEMPINI 130	10
SOLINIT 189	0	TEMPINI 60	10	TEMPINI 131	10
SOLINIT 190	0	TEMPINI 61	10	TEMPINI 132	10
SOLINIT 191	0	TEMPINI 62	10	TEMPINI 133	10
SOLINIT 192	0	TEMPINI 63	10	TEMPINI 134	10
SOLINIT 193	0	TEMPINI 64	10	TEMPINI 135	10
SOLINIT 194	0	TEMPINI 65	10	TEMPINI 136	10
SOLINIT 195	0	TEMPINI 66	10	TEMPINI 137	10
SOLINIT 196	0	TEMPINI 67	10	TEMPINI 138	10
SOLINIT 197	0	TEMPINI 68	10	TEMPINI 139	10
SOLINIT 198	0	TEMPINI 69	10	TEMPINI 140	10
SOLINIT 199	0	TEMPINI 70	10	TEMPINI 141	10
SOLINIT 200	0	TEMPINI 71	10	TEMPINI 142	10
TEMPINI 1	10	TEMPINI 72	10	TEMPINI 143	10
TEMPINI 2	10	TEMPINI 73	10	TEMPINI 144	10
TEMPINI 3	10	TEMPINI 74	10	TEMPINI 145	10
TEMPINI 4	10	TEMPINI 75	10	TEMPINI 146	10
TEMPINI 5	10	TEMPINI 76	10	TEMPINI 147	10
TEMPINI 6	10	TEMPINI 77	10	TEMPINI 148	10
TEMPINI 7	10	TEMPINI 78	10	TEMPINI 149	10
TEMPINI 8	10	TEMPINI 79	10	TEMPINI 150	10
TEMPINI 9	10	TEMPINI 80	10	TEMPINI 151	10
TEMPINI 10	10	TEMPINI 81	10	TEMPINI 152	10
TEMPINI 11	10	TEMPINI 82	10	TEMPINI 153	10
TEMPINI 12	10	TEMPINI 83	10	TEMPINI 154	10
TEMPINI 13	10	TEMPINI 84	10	TEMPINI 155	10
TEMPINI 14	10	TEMPINI 85	10	TEMPINI 156	10
TEMPINI 15	10	TEMPINI 86	10	TEMPINI 157	10
TEMPINI 16	10	TEMPINI 87	10	TEMPINI 158	10
TEMPINI 17	10	TEMPINI 88	10	TEMPINI 159	10
TEMPINI 18	10	TEMPINI 89	10	TEMPINI 160	10
TEMPINI 19	10	TEMPINI 90	10	TEMPINI 161	10
TEMPINI 20	10	TEMPINI 91	10	TEMPINI 162	10
TEMPINI 21	10	TEMPINI 92	10	TEMPINI 163	10
TEMPINI 22	10	TEMPINI 93	10	TEMPINI 164	10
TEMPINI 23	10	TEMPINI 94	10	TEMPINI 165	10

TEMPINI 166	10		THETAINI	37	0	THETAINI	108	0
TEMPINI 167	10		THETAINI	38	0	THETAINI	109	0
TEMPINI 168	10		THETAINI	39	0	THETAINI	110	0
TEMPINI 169	10		THETAINI	40	0	THETAINI	111	0
TEMPINI 170	10		THETAINI	41	0	THETAINI	112	0
TEMPINI 171	10		THETAINI	42	0	THETAINI	113	0
TEMPINI 172	10		THETAINI	43	0	THETAINI	114	0
TEMPINI 173	10		THETAINI	44	0	THETAINI	115	0
TEMPINI 174	10		THETAINI	45	0	THETAINI	116	0
TEMPINI 175	10		THETAINI	46	0	THETAINI	117	0
TEMPINI 176	10		THETAINI	47	0	THETAINI	118	0
TEMPINI 177	10		THETAINI	48	0	THETAINI	119	0
TEMPINI 178	10		THETAINI	49	0	THETAINI	120	0
TEMPINI 179	10		THETAINI	50	0	THETAINI	121	0
TEMPINI 180	10		THETAINI	51	0	THETAINI	122	0
TEMPINI 181	10		THETAINI	52	0	THETAINI	123	0
TEMPINI 182	10		THETAINI	53	0	THETAINI	124	0
TEMPINI 183	10		THETAINI	54	0	THETAINI	125	0
TEMPINI 184	10		THETAINI	55	0	THETAINI	126	0
TEMPINI 185	10		THETAINI	56	0	THETAINI	127	0
TEMPINI 186	10		THETAINI	57	0	THETAINI	128	0
TEMPINI 187	10		THETAINI	58	0	THETAINI	129	0
TEMPINI 188	10		THETAINI	59	0	THETAINI	130	0
TEMPINI 189	10		THETAINI	60	0	THETAINI	131	0
TEMPINI 190	10		THETAINI	61	0	THETAINI	132	0
TEMPINI 191	10		THETAINI	62	0	THETAINI	133	0
TEMPINI 192	10		THETAINI	63	0	THETAINI	134	0
TEMPINI 193	10		THETAINI	64	0	THETAINI	135	0
TEMPINI 194	10		THETAINI	65	0	THETAINI	136	0
TEMPINI 195	10		THETAINI	66	0	THETAINI	137	0
TEMPINI 196	10		THETAINI	67	0	THETAINI	138	0
TEMPINI 197	10		THETAINI	68	0	THETAINI	139	0
TEMPINI 198	10		THETAINI	69	0	THETAINI	140	0
TEMPINI 199	10		THETAINI	70	0	THETAINI	141	0
TEMPINI 200	10		THETAINI	71	0	THETAINI	142	0
THETAINI	1	0	THETAINI	72	0	THETAINI	143	0
THETAINI	2	0	THETAINI	73	0	THETAINI	144	0
THETAINI	3	0	THETAINI	74	0	THETAINI	145	0
THETAINI	4	0	THETAINI	75	0	THETAINI	146	0
THETAINI	5	0	THETAINI	76	0	THETAINI	147	0
THETAINI	6	0	THETAINI	77	0	THETAINI	148	0
THETAINI	7	0	THETAINI	78	0	THETAINI	149	0
THETAINI	8	0	THETAINI	79	0	THETAINI	150	0
THETAINI	9	0	THETAINI	80	0	THETAINI	151	0
THETAINI	10	0	THETAINI	81	0	THETAINI	152	0
THETAINI	11	0	THETAINI	82	0	THETAINI	153	0
THETAINI	12	0	THETAINI	83	0	THETAINI	154	0
THETAINI	13	0	THETAINI	84	0	THETAINI	155	0
THETAINI	14	0	THETAINI	85	0	THETAINI	156	0
THETAINI	15	0	THETAINI	86	0	THETAINI	157	0
THETAINI	16	0	THETAINI	87	0	THETAINI	158	0
THETAINI	17	0	THETAINI	88	0	THETAINI	159	0
THETAINI	18	0	THETAINI	89	0	THETAINI	160	0
THETAINI	19	0	THETAINI	90	0	THETAINI	161	0
THETAINI	20	0	THETAINI	91	0	THETAINI	162	0
THETAINI	21	0	THETAINI	92	0	THETAINI	163	0
THETAINI	22	0	THETAINI	93	0	THETAINI	164	0
THETAINI	23	0	THETAINI	94	0	THETAINI	165	0
THETAINI	24	0	THETAINI	95	0	THETAINI	166	0
THETAINI	25	0	THETAINI	96	0	THETAINI	167	0
THETAINI	26	0	THETAINI	97	0	THETAINI	168	0
THETAINI	27	0	THETAINI	98	0	THETAINI	169	0
THETAINI	28	0	THETAINI	99	0	THETAINI	170	0
THETAINI	29	0	THETAINI	100	0	THETAINI	171	0
THETAINI	30	0	THETAINI	101	0	THETAINI	172	0
THETAINI	31	0	THETAINI	102	0	THETAINI	173	0
THETAINI	32	0	THETAINI	103	0	THETAINI	174	0
THETAINI	33	0	THETAINI	104	0	THETAINI	175	0
THETAINI	34	0	THETAINI	105	0	THETAINI	176	0
THETAINI	35	0	THETAINI	106	0	THETAINI	177	0
THETAINI	36	0	THETAINI	107	0	THETAINI	178	0

THETAINI	179	0	THETAINI	195	0	Scenario : Chateaudun Groundwater
THETAINI	180	0	THETAINI	196	0	
THETAINI	181	0	THETAINI	197	0	Simulation from 19010101 to 19270101, application every year (6 year warm-up)
THETAINI	182	0	THETAINI	198	0	
THETAINI	183	0	THETAINI	199	0	
THETAINI	184	0	THETAINI	200	0	
THETAINI	185	0	*****			
THETAINI	186	0	INFORMATION			
THETAINI	187	0	MACRO in FOCUS Version			Crop : Cereals, spring, irrigated
THETAINI	188	0	5.5.4			
THETAINI	189	0	Output File =			
THETAINI	190	0	C:\SWASH\macro\Multi_GW\M2			Number of applications : 1
THETAINI	191	0	_3a_ID003\macro003.bin			
THETAINI	192	0	Type of compound =			Application 1 : 60 g/ha of
THETAINI	193	0	metabolite			M2_3a on day 72
THETAINI	194	0	Compound : M2_3a			

Listing 11: Tier 1b – Representative *.par file for M3 to M54 for MACRO 5.5.4 – 45 g/ha to Winter Cereals at BBCH 21 for the Châteaudun scenario

NUMERICAL LAYERS	200	TPORV	3	44	NLAYER	5	21
GENERAL PARAMETERS		TPORV	4	44	NLAYER	6	75
RUNID 142		TPORV	5	44	ORGC	1	1.39
NUMERICAL LAYERS	200	TPORV	6	49	ORGC	2	0.93
NHORIZON	6	TRAPAIR	1	0	ORGC	3	0.7
NLAYER 200		TRAPAIR	2	0	ORGC	4	0.3
*****		TRAPAIR	3	0	ORGC	5	0.3
*****		TRAPAIR	4	0	ORGC	6	0.27
PHYSICAL PARAMETERS		TRAPAIR	5	0	THICKNESS	1	25
NHORIZONS	6	TRAPAIR	6	0	THICKNESS	2	25
ALPHA 1 0.05		WILT	1	25.8	THICKNESS	3	10
ALPHA 2 0.05		WILT	2	23.7	THICKNESS	4	40
ALPHA 3 0.05		WILT	3	23.7	THICKNESS	5	20
ALPHA 4 0.015		WILT	4	18.8	THICKNESS	6	70
ALPHA 5 0.015		WILT	5	18.8	*****		
ALPHA 6 0.0107		WILT	6	15	*****		
ASCALE 1 10		XMPOR	1	41	OPTIONS		
ASCALE 2 75		XMPOR	2	43	AVERAGET	1	
ASCALE 3 75		XMPOR	3	43	AVERAGEX	2	
ASCALE 4 1		XMPOR	4	43	BOUNDARY	4	
ASCALE 5 1		XMPOR	5	43	CHAPAR	0	
ASCALE 6 4		XMPOR	6	47	CROP	2	
CTEN 1 20		ZA	1	1	CRUST	0	
CTEN 2 20		ZA	2	1	DEGKIN	0	
CTEN 3 20		ZA	3	1	DRIVING	0	
CTEN 4 40		ZA	4	1	EVAPORATE	1	
CTEN 5 40		ZA	5	1	INITIAL	1	
CTEN 6 30		ZA	6	1	IRRIGATE	1	
GAMMA 1 1.3		ZM	1	-0.5	KINETIC	0	
GAMMA 2 1.41		ZM	2	-0.5	MASSUNITS	2	
GAMMA 3 1.41		ZM	3	1.5	METABOLITE	0	
GAMMA 4 1.37		ZM	4	-4	RAINFALL	1	
GAMMA 5 1.37		ZM	5	-4	SOLUTE	2	
GAMMA 6 1.41		ZM	6	-3.5	TEMPINI	0	
KSATMIN 1 72		ZN	1	3	TILEDRAIN	2	
KSATMIN 2 108		ZN	2	3	VARTENSION	0	
KSATMIN 3 180		ZN	3	3	*****		
KSATMIN 4 43		ZN	4	2	*****		
KSATMIN 5 43		ZN	5	2	SOLUTE PARAMETERS		
KSATMIN 6 33		ZN	6	2	CANDEG	0.2	
KSM 1 0.25		ZP	1	0	CONC	0	
KSM 2 0.5		ZP	2	0	DIFF	4.976852E-10	
KSM 3 1		ZP	3	0	DV	5	
KSM 4 1		ZP	4	0	EXPB	0.49	
KSM 5 1		ZP	5	0	FCONVERT	0	
KSM 6 3.25		ZP	6	0	FEXT	0	
N 1 1.07		*****			FRACEQ	0	
N 2 1.09		*****			FRACK	0	
N 3 1.09		PROPERTIES			FRACMAC	0.02	
N 4 1.14		NHORIZONS	6		FSTAR	0.784	
N 5 1.14		CLAY	1	30	PF1	2	
N 6 1.19		CLAY	2	31	PF2	0	
RESID 1 0		CLAY	3	25	SORPRATE	0	
RESID 2 0		CLAY	4	26	TREF	20	
RESID 3 0		CLAY	5	24	TRESP	0.0948	
RESID 4 0		CLAY	6	31	KOC	32.0664	
RESID 5 0		HTICK	1	25	ZMIX	1	
RESID 6 0		HTICK	2	25	NHORIZONS	6	
STONE 1 0		HTICK	3	10	AEXC	1	0
STONE 2 0		HTICK	4	40	AEXC	2	0
STONE 3 0		HTICK	5	20	AEXC	3	0
STONE 4 0		HTICK	6	70	AEXC	4	0
STONE 5 0		NLAYER	1	26	AEXC	5	0
STONE 6 0		NLAYER	2	26	AEXC	6	0
TPORV 1 43		NLAYER	3	10	DEGMAL	1	0.01750372
TPORV 2 44		NLAYER	4	42	DEGMAL	2	0.008751859

DEGMAL 3	0.008751859	*****	IRRDAY 96
DEGMAL 4	0.005251116	*****	IRRSTART 9
DEGMAL 5	0	SITE PARAMETERS	IRREND 9.2
DEGMAL 6	0	ALBEDO 0.25	AMIR 0.1
DEGMAS 1	0.01750372	ANNAMP 7.7	CONCI 14510.57
DEGMAS 2	0.008751859	ANNTAV 11.9	ZFINT 0
DEGMAS 3	0.008751859	DRAINDEP 0	IRRYEAR 7
DEGMAS 4	0.005251116	DWRL 0	NIRRIGATIONS 1
DEGMAS 5	0	LAYERD 0	IRRIGNO 1
DEGMAS 6	0	PHI 48.1	IRRDAY 96
DEGMIL 1	0.01750372	RAINCO 1	IRRSTART 9
DEGMIL 2	0.008751859	RGWFLOW 0	IRREND 9.2
DEGMIL 3	0.008751859	RINTEN 2	AMIR 0.1
DEGMIL 4	0.005251116	SNOWCO 1	CONCI 14510.57
DEGMIL 5	0	SNOWMF 4.5	ZFINT 0
DEGMIL 6	0	SPACE 0	IRRYEAR 8
DEGMIS 1	0.01750372	ZMET 10	NIRRIGATIONS 1
DEGMIS 2	0.008751859	*****	IRRIGNO 1
DEGMIS 3	0.008751859	*****	IRRDAY 96
DEGMIS 4	0.005251116	IRRIGATION PARAMETERS	IRRSTART 9
DEGMIS 5	0	IRRSAME True	IRREND 9.2
DEGMIS 6	0	CRITDEF -1	AMIR 0.1
FREUND 1	0.96	IRRYEARS 26	CONCI 14510.57
FREUND 2	0.96	IRRYEAR 1	ZFINT 0
FREUND 3	0.96	NIRRIGATIONS 1	IRRYEAR 9
FREUND 4	0.96	IRRIGNO 1	NIRRIGATIONS 1
FREUND 5	0.96	IRRDAY 96	IRRIGNO 1
FREUND 6	0.96	IRRSTART 9	IRRDAY 96
ZKD 1	0.4457229	IRREND 9.2	IRRSTART 9
ZKD 2	0.2982175	AMIR 0.1	IRREND 9.2
ZKD 3	0.2244648	CONCI 14510.57	AMIR 0.1
ZKD 4	0.0961992	ZFINT 0	CONCI 14510.57
ZKD 5	0.0961992	IRRYEAR 2	ZFINT 0
ZKD 6	0.08657928	NIRRIGATIONS 1	IRRYEAR 10
*****		IRRIGNO 1	NIRRIGATIONS 1
*****		IRRDAY 96	IRRIGNO 1
CROP PARAMETERS		IRRSTART 9	IRRDAY 96
NCROPS 1		IRREND 9.2	IRRSTART 9
ATTEN 1	0.6	AMIR 0.1	IRREND 9.2
BETA 1	0.1	CONCI 14510.57	AMIR 0.1
CANCAP 1	3	ZFINT 0	CONCI 14510.57
CFORM 1	2	IRRYEAR 3	ZFINT 0
CRITAIR 1	5	NIRRIGATIONS 1	IRRYEAR 11
DFORM 1	0.2	IRRIGNO 1	NIRRIGATIONS 1
FAWC 1	0.7800209	IRRDAY 96	IRRIGNO 1
HCROP 1	0	IRRSTART 9	IRRDAY 96
HMAX 1	0	IRREND 9.2	IRRSTART 9
IDMAX 1	151	AMIR 0.1	IRREND 9.2
IDMAX2 1	0	CONCI 14510.57	AMIR 0.1
IDSTART 1	299	ZFINT 0	CONCI 14510.57
IDSTART2 1	0	IRRYEAR 4	ZFINT 0
IHARV 1	196	NIRRIGATIONS 1	IRRYEAR 12
IHARV2 1	0	IRRIGNO 1	NIRRIGATIONS 1
LAIC 1	0	IRRDAY 96	IRRIGNO 1
LAIHAR 1	2	IRRSTART 9	IRRDAY 96
LAIMAX 1	7.5	IRREND 9.2	IRRSTART 9
LAIMIN 1	0.1	AMIR 0.1	IRREND 9.2
NCROP 1	1	CONCI 14510.57	AMIR 0.1
RI50 1	50	ZFINT 0	CONCI 14510.57
ROOTDEP 1	0	IRRYEAR 5	ZFINT 0
ROOTINIT 1	0.2	NIRRIGATIONS 1	IRRYEAR 13
ROOTMAX 1	0.8	IRRIGNO 1	NIRRIGATIONS 1
RPIN 1	60	IRRDAY 96	IRRIGNO 1
RSMIN 1	0	IRRSTART 9	IRRDAY 96
RSURF 1	0	IRREND 9.2	IRRSTART 9
WATEN 1	50	AMIR 0.1	IRREND 9.2
VPD50 1	50	CONCI 14510.57	AMIR 0.1
ZALP 1	1	ZFINT 0	CONCI 14510.57
ZDATEMIN 1	90	IRRYEAR 6	ZFINT 0
ZDATEMIN2 1	0	NIRRIGATIONS 1	IRRYEAR 14
ZHMIN 1	0	IRRIGNO 1	NIRRIGATIONS 1

IRRIGNO 1	NIRRIGATIONS 1	ti_GW\M3B34_ID142\bin\cdm6
IRRDAY 96	IRRIGNO 1	p.BIN
IRRSTART 9	IRRDAY 96	TENSIONFILE (none)
IRREND 9.2	IRRSTART 9	TOTPHYSLAYER 200
AMIR 0.1	IRREND 9.2	*****
CONCI 14510.57	AMIR 0.1	TILLAGE PARAMETERS
ZFINT 0	CONCI 14510.57	CRUSTSTA 0
IRRYEAR 15	ZFINT 0	DUMMY 0
NIRRIGATIONS 1	IRRYEAR 23	GAMMASEAL 0
IRRIGNO 1	NIRRIGATIONS 1	GAMMATILL 0
IRRDAY 96	IRRIGNO 1	HALFCRUS 0
IRRSTART 9	IRRDAY 96	HALFRAIN 0
IRREND 9.2	IRRSTART 9	KSMSEAL 0
AMIR 0.1	IRREND 9.2	KSMTILLE 0
CONCI 14510.57	AMIR 0.1	MACDCH 0
ZFINT 0	CONCI 14510.57	MACPCH 0
IRRYEAR 16	ZFINT 0	NTILL 0
NIRRIGATIONS 1	IRRYEAR 24	XMPORSEAL 0
IRRIGNO 1	NIRRIGATIONS 1	ZNSEAL 0
IRRDAY 96	IRRIGNO 1	*****
IRRSTART 9	IRRDAY 96	*****
IRREND 9.2	IRRSTART 9	OUTPUTS
AMIR 0.1	IRREND 9.2	NSINGLE 81
CONCI 14510.57	AMIR 0.1	RRNRRAIN -1 0 X
ZFINT 0	CONCI 14510.57	ACCMELT -1 0 X
IRRYEAR 17	ZFINT 0	PWT -1 0 X
NIRRIGATIONS 1	IRRYEAR 25	INFILMI -1 0 X
IRRIGNO 1	NIRRIGATIONS 1	INFILMA -1 0 X
IRRDAY 96	IRRIGNO 1	CINFIL -1 0 X
IRRSTART 9	IRRDAY 96	RAIN -1 0 X
IRREND 9.2	IRRSTART 9	CETA -1 0 T
AMIR 0.1	IRREND 9.2	EPOT -1 0 T
CONCI 14510.57	AMIR 0.1	CCEPOT -1 0 T
ZFINT 0	CONCI 14510.57	CCETA -1 0 T
IRRYEAR 18	ZFINT 0	TPRECIP -1 0 T
NIRRIGATIONS 1	IRRYEAR 26	TTPRECIP -1 0
IRRIGNO 1	NIRRIGATIONS 1	T
IRRDAY 96	IRRIGNO 1	SSEEP 0 0 T
IRRSTART 9	IRRDAY 96	TSEEP 0 0 T
IRREND 9.2	IRRSTART 9	CRES -1 0 T
AMIR 0.1	IRREND 9.2	SRUNOFF -1 0 T
CONCI 14510.57	AMIR 0.1	WWW -1 0 T
ZFINT 0	CONCI 14510.57	TRUNOFF -1 1 T
IRRYEAR 19	ZFINT 0	TFLOWOUT -1 1
NIRRIGATIONS 1	*****	T
IRRIGNO 1	*****	TFLOW -1 0 T
IRRDAY 96	SETUP	TSTOREMI -1 1
IRRSTART 9	DATEFILE	T
IRREND 9.2	DRIVINGFILE	TSTOREMA -1 1
AMIR 0.1	C:\swash\macro\mac	T
CONCI 14510.57	ro999.bin	PRECIRR -1 0 T
ZFINT 0	DRIVINGPERIOD 01-Jan-	PRECIRA -1 1 T
IRRYEAR 20	1901-01-Jan-1927	SEEPMI 0 0 T
NIRRIGATIONS 1	ENDDATE 1927-01-01 00:00	SEEPMIAC 0 0
IRRIGNO 1	OUTPUTFILE	T
IRRDAY 96	macro142.bin	PSOIL -1 0 T
IRRSTART 9	METFILE	UPT -1 0 T
IRREND 9.2	C:\SWASH\macro\Mul	CPSOIL -1 0 T
AMIR 0.1	ti_GW\M3B34_ID142\bin\cdm6	CUPT -1 0 T
CONCI 14510.57	et.BIN	ESOIL -1 0 T
ZFINT 0	METPERIOD 1901-01-01	ETA -1 0 T
IRRYEAR 21	00:00-1927-01-01 00:00	WETACT -1 0 T
NIRRIGATIONS 1	NUMLAYERS 0	CESOIL -1 0 T
IRRIGNO 1	OUTINTD 1	CETC -1 0 T
IRRDAY 96	OUTINTM 0	CCET -1 1 T
IRRSTART 9	PERIODFILE10 (none)	GSRAT 0 0 T
IRREND 9.2	STARTDATE 1901-01-01	GSTOT 0 0 T
AMIR 0.1	00:00	WATEREQ -1 0 T
CONCI 14510.57	RAINFALLFILE	BOTFLOW -1 0 G
ZFINT 0	C:\SWASH\macro\Mul	
IRRYEAR 22		

DRAINCON	0	0	17	0	3176	88	0	3176
G			18	0	3176	89	0	3176
TMAX -1	0	G	19	0	3176	90	0	3176
TMIN -1	0	G	20	0	3176	91	0	3176
SMICIN -1	0	G	21	0	3176	92	0	3176
SMACIN -1	0	G	22	0	3176	93	0	3176
GRCON 0	0	G	23	0	3176	94	0	3176
TAV -1	0	G	24	0	3176	95	0	3176
GLOBAL -1	0	G	25	0	3176	96	0	3176
TSOUT -1	1	D	26	0	3176	97	0	3176
TSS -1	0	D	27	0	3176	98	0	3176
SSS -1	0	D	28	0	3176	99	0	3176
TSRUN -1	1	D	29	0	3176	100	0	3176
TPAM -1	1	D	30	0	3176	101	0	3176
TCAM -1	1	D	31	0	3176	102	0	3176
TADMI -1	1	D	32	0	3176	103	0	3176
TADMA -1	1	D	33	0	3176	104	1	3176
TDEG -1	1	D	34	0	3176	105	0	3176
TUPT -1	1	D	35	0	3176	106	0	3176
SAMS -1	0	D	36	0	3176	107	0	3176
CDEG -1	0	D	37	0	3176	108	0	3176
DRAINLOS	0	0	38	0	3176	109	0	3176
D			39	0	3176	110	0	3176
DSOLTOSS	0	0	40	0	3176	111	0	3176
D			41	0	3176	112	0	3176
DSOLTMIC	0	0	42	0	3176	113	0	3176
D			43	0	3176	114	0	3176
TSOLTMIC	0	0	44	0	3176	115	0	3176
D			45	0	3176	116	0	3176
ELOSS 0	0	D	46	0	3176	117	0	3176
SSRAT 0	0	D	47	0	3176	118	0	3176
SSTOT 0	0	D	48	0	3176	119	0	3176
CFOUT 0	0	D	49	0	3176	120	0	3176
ACFOUT 0	0	D	50	0	3176	121	0	3176
TCOLLMA 0	0	D	51	0	3176	122	0	3176
TCOLLM 0	0	D	52	0	3176	123	0	3176
CFDRAIN 0	0	D	53	0	3176	124	0	3176
ACFDRAIN	0	0	54	0	3176	125	0	3176
D			55	0	3176	126	0	3176
TDEC 0	0	D	56	0	3176	127	0	3176
TIMMOB 0	0	D	57	0	3176	128	0	3176
GENERATE	0	0	58	0	3176	129	0	3176
D			59	0	3176	130	0	3176
GSINK -1	0	D	60	0	3176	131	0	3176
CFDRS 0	0	D	61	0	3176	132	0	3176
ACFDRS 0	0	D	62	0	3176	133	0	3176
PC 0	0	D	63	0	3176	134	0	3176
NLAYERED	49		64	0	3176	135	0	3176
THETA -1	0	X	65	0	3176	136	0	3176
THETI -1	0	X	66	0	3176	137	0	3176
THETT -1	0	X	67	0	3176	138	0	3176
TMPOR -1	0	X	68	0	3176	139	0	3176
CPSI -1	0	X	69	0	3176	140	0	3176
ZUPTAKE -1	0	X	70	0	3176	141	0	3176
WOUT -1	1	X	71	0	3176	142	0	3176
1	0	3176	72	0	3176	143	0	3176
2	0	3176	73	0	3176	144	0	3176
3	0	3176	74	0	3176	145	0	3176
4	0	3176	75	0	3176	146	0	3176
5	0	3176	76	0	3176	147	0	3176
6	0	3176	77	0	3176	148	0	3176
7	0	3176	78	0	3176	149	0	3176
8	0	3176	79	0	3176	150	0	3176
9	0	3176	80	0	3176	151	0	3176
10	0	3176	81	0	3176	152	0	3176
11	0	3176	82	0	3176	153	0	3176
12	0	3176	83	0	3176	154	0	3176
13	0	3176	84	0	3176	155	0	3176
14	0	3176	85	0	3176	156	0	3176
15	0	3176	86	0	3176	157	0	3176
16	0	3176	87	0	3176	158	0	3176

159	0	3176		25	0	3179	96	0	3179
160	0	3176		26	0	3179	97	0	3179
161	0	3176		27	0	3179	98	0	3179
162	0	3176		28	0	3179	99	0	3179
163	0	3176		29	0	3179	100	0	3179
164	0	3176		30	0	3179	101	0	3179
165	0	3176		31	0	3179	102	0	3179
166	0	3176		32	0	3179	103	0	3179
167	0	3176		33	0	3179	104	1	3179
168	0	3176		34	0	3179	105	0	3179
169	0	3176		35	0	3179	106	0	3179
170	0	3176		36	0	3179	107	0	3179
171	0	3176		37	0	3179	108	0	3179
172	0	3176		38	0	3179	109	0	3179
173	0	3176		39	0	3179	110	0	3179
174	0	3176		40	0	3179	111	0	3179
175	0	3176		41	0	3179	112	0	3179
176	0	3176		42	0	3179	113	0	3179
177	0	3176		43	0	3179	114	0	3179
178	0	3176		44	0	3179	115	0	3179
179	0	3176		45	0	3179	116	0	3179
180	0	3176		46	0	3179	117	0	3179
181	0	3176		47	0	3179	118	0	3179
182	0	3176		48	0	3179	119	0	3179
183	0	3176		49	0	3179	120	0	3179
184	0	3176		50	0	3179	121	0	3179
185	0	3176		51	0	3179	122	0	3179
186	0	3176		52	0	3179	123	0	3179
187	0	3176		53	0	3179	124	0	3179
188	0	3176		54	0	3179	125	0	3179
189	0	3176		55	0	3179	126	0	3179
190	0	3176		56	0	3179	127	0	3179
191	0	3176		57	0	3179	128	0	3179
192	0	3176		58	0	3179	129	0	3179
193	0	3176		59	0	3179	130	0	3179
194	0	3176		60	0	3179	131	0	3179
195	0	3176		61	0	3179	132	0	3179
196	0	3176		62	0	3179	133	0	3179
197	0	3176		63	0	3179	134	0	3179
198	0	3176		64	0	3179	135	0	3179
199	0	3176		65	0	3179	136	0	3179
200	0	3176		66	0	3179	137	0	3179
EXCHANGE	-1	0		67	0	3179	138	0	3179
X				68	0	3179	139	0	3179
THETAMA -1	0	X		69	0	3179	140	0	3179
WFLOWOUT	-1	1		70	0	3179	141	0	3179
X				71	0	3179	142	0	3179
1	0	3179		72	0	3179	143	0	3179
2	0	3179		73	0	3179	144	0	3179
3	0	3179		74	0	3179	145	0	3179
4	0	3179		75	0	3179	146	0	3179
5	0	3179		76	0	3179	147	0	3179
6	0	3179		77	0	3179	148	0	3179
7	0	3179		78	0	3179	149	0	3179
8	0	3179		79	0	3179	150	0	3179
9	0	3179		80	0	3179	151	0	3179
10	0	3179		81	0	3179	152	0	3179
11	0	3179		82	0	3179	153	0	3179
12	0	3179		83	0	3179	154	0	3179
13	0	3179		84	0	3179	155	0	3179
14	0	3179		85	0	3179	156	0	3179
15	0	3179		86	0	3179	157	0	3179
16	0	3179		87	0	3179	158	0	3179
17	0	3179		88	0	3179	159	0	3179
18	0	3179		89	0	3179	160	0	3179
19	0	3179		90	0	3179	161	0	3179
20	0	3179		91	0	3179	162	0	3179
21	0	3179		92	0	3179	163	0	3179
22	0	3179		93	0	3179	164	0	3179
23	0	3179		94	0	3179	165	0	3179
24	0	3179		95	0	3179	166	0	3179

167	0	3179		30	0	3186	101	0	3186
168	0	3179		31	0	3186	102	0	3186
169	0	3179		32	0	3186	103	0	3186
170	0	3179		33	0	3186	104	1	3186
171	0	3179		34	0	3186	105	0	3186
172	0	3179		35	0	3186	106	0	3186
173	0	3179		36	0	3186	107	0	3186
174	0	3179		37	0	3186	108	0	3186
175	0	3179		38	0	3186	109	0	3186
176	0	3179		39	0	3186	110	0	3186
177	0	3179		40	0	3186	111	0	3186
178	0	3179		41	0	3186	112	0	3186
179	0	3179		42	0	3186	113	0	3186
180	0	3179		43	0	3186	114	0	3186
181	0	3179		44	0	3186	115	0	3186
182	0	3179		45	0	3186	116	0	3186
183	0	3179		46	0	3186	117	0	3186
184	0	3179		47	0	3186	118	0	3186
185	0	3179		48	0	3186	119	0	3186
186	0	3179		49	0	3186	120	0	3186
187	0	3179		50	0	3186	121	0	3186
188	0	3179		51	0	3186	122	0	3186
189	0	3179		52	0	3186	123	0	3186
190	0	3179		53	0	3186	124	0	3186
191	0	3179		54	0	3186	125	0	3186
192	0	3179		55	0	3186	126	0	3186
193	0	3179		56	0	3186	127	0	3186
194	0	3179		57	0	3186	128	0	3186
195	0	3179		58	0	3186	129	0	3186
196	0	3179		59	0	3186	130	0	3186
197	0	3179		60	0	3186	131	0	3186
198	0	3179		61	0	3186	132	0	3186
199	0	3179		62	0	3186	133	0	3186
200	0	3179		63	0	3186	134	0	3186
DRAINFL0	-1	0		64	0	3186	135	0	3186
X				65	0	3186	136	0	3186
DRAINMI -1	0	X		66	0	3186	137	0	3186
THETAM -1	0	X		67	0	3186	138	0	3186
TEMP -1	0	G		68	0	3186	139	0	3186
SOLMIC -1	0	G		69	0	3186	140	0	3186
SOLMAC -1	0	G		70	0	3186	141	0	3186
SFLOW -1	1	G		71	0	3186	142	0	3186
1	0	3186		72	0	3186	143	0	3186
2	0	3186		73	0	3186	144	0	3186
3	0	3186		74	0	3186	145	0	3186
4	0	3186		75	0	3186	146	0	3186
5	0	3186		76	0	3186	147	0	3186
6	0	3186		77	0	3186	148	0	3186
7	0	3186		78	0	3186	149	0	3186
8	0	3186		79	0	3186	150	0	3186
9	0	3186		80	0	3186	151	0	3186
10	0	3186		81	0	3186	152	0	3186
11	0	3186		82	0	3186	153	0	3186
12	0	3186		83	0	3186	154	0	3186
13	0	3186		84	0	3186	155	0	3186
14	0	3186		85	0	3186	156	0	3186
15	0	3186		86	0	3186	157	0	3186
16	0	3186		87	0	3186	158	0	3186
17	0	3186		88	0	3186	159	0	3186
18	0	3186		89	0	3186	160	0	3186
19	0	3186		90	0	3186	161	0	3186
20	0	3186		91	0	3186	162	0	3186
21	0	3186		92	0	3186	163	0	3186
22	0	3186		93	0	3186	164	0	3186
23	0	3186		94	0	3186	165	0	3186
24	0	3186		95	0	3186	166	0	3186
25	0	3186		96	0	3186	167	0	3186
26	0	3186		97	0	3186	168	0	3186
27	0	3186		98	0	3186	169	0	3186
28	0	3186		99	0	3186	170	0	3186
29	0	3186		100	0	3186	171	0	3186

172	0	3186	41	0	3187	112	0	3187
173	0	3186	42	0	3187	113	0	3187
174	0	3186	43	0	3187	114	0	3187
175	0	3186	44	0	3187	115	0	3187
176	0	3186	45	0	3187	116	0	3187
177	0	3186	46	0	3187	117	0	3187
178	0	3186	47	0	3187	118	0	3187
179	0	3186	48	0	3187	119	0	3187
180	0	3186	49	0	3187	120	0	3187
181	0	3186	50	0	3187	121	0	3187
182	0	3186	51	0	3187	122	0	3187
183	0	3186	52	0	3187	123	0	3187
184	0	3186	53	0	3187	124	0	3187
185	0	3186	54	0	3187	125	0	3187
186	0	3186	55	0	3187	126	0	3187
187	0	3186	56	0	3187	127	0	3187
188	0	3186	57	0	3187	128	0	3187
189	0	3186	58	0	3187	129	0	3187
190	0	3186	59	0	3187	130	0	3187
191	0	3186	60	0	3187	131	0	3187
192	0	3186	61	0	3187	132	0	3187
193	0	3186	62	0	3187	133	0	3187
194	0	3186	63	0	3187	134	0	3187
195	0	3186	64	0	3187	135	0	3187
196	0	3186	65	0	3187	136	0	3187
197	0	3186	66	0	3187	137	0	3187
198	0	3186	67	0	3187	138	0	3187
199	0	3186	68	0	3187	139	0	3187
200	0	3186	69	0	3187	140	0	3187
SFLOWOUT	-1	1	70	0	3187	141	0	3187
G			71	0	3187	142	0	3187
1	0	3187	72	0	3187	143	0	3187
2	0	3187	73	0	3187	144	0	3187
3	0	3187	74	0	3187	145	0	3187
4	0	3187	75	0	3187	146	0	3187
5	0	3187	76	0	3187	147	0	3187
6	0	3187	77	0	3187	148	0	3187
7	0	3187	78	0	3187	149	0	3187
8	0	3187	79	0	3187	150	0	3187
9	0	3187	80	0	3187	151	0	3187
10	0	3187	81	0	3187	152	0	3187
11	0	3187	82	0	3187	153	0	3187
12	0	3187	83	0	3187	154	0	3187
13	0	3187	84	0	3187	155	0	3187
14	0	3187	85	0	3187	156	0	3187
15	0	3187	86	0	3187	157	0	3187
16	0	3187	87	0	3187	158	0	3187
17	0	3187	88	0	3187	159	0	3187
18	0	3187	89	0	3187	160	0	3187
19	0	3187	90	0	3187	161	0	3187
20	0	3187	91	0	3187	162	0	3187
21	0	3187	92	0	3187	163	0	3187
22	0	3187	93	0	3187	164	0	3187
23	0	3187	94	0	3187	165	0	3187
24	0	3187	95	0	3187	166	0	3187
25	0	3187	96	0	3187	167	0	3187
26	0	3187	97	0	3187	168	0	3187
27	0	3187	98	0	3187	169	0	3187
28	0	3187	99	0	3187	170	0	3187
29	0	3187	100	0	3187	171	0	3187
30	0	3187	101	0	3187	172	0	3187
31	0	3187	102	0	3187	173	0	3187
32	0	3187	103	0	3187	174	0	3187
33	0	3187	104	1	3187	175	0	3187
34	0	3187	105	0	3187	176	0	3187
35	0	3187	106	0	3187	177	0	3187
36	0	3187	107	0	3187	178	0	3187
37	0	3187	108	0	3187	179	0	3187
38	0	3187	109	0	3187	180	0	3187
39	0	3187	110	0	3187	181	0	3187
40	0	3187	111	0	3187	182	0	3187

183	0	3187		SOLINIT 11	0	SOLINIT 82	0
184	0	3187		SOLINIT 12	0	SOLINIT 83	0
185	0	3187		SOLINIT 13	0	SOLINIT 84	0
186	0	3187		SOLINIT 14	0	SOLINIT 85	0
187	0	3187		SOLINIT 15	0	SOLINIT 86	0
188	0	3187		SOLINIT 16	0	SOLINIT 87	0
189	0	3187		SOLINIT 17	0	SOLINIT 88	0
190	0	3187		SOLINIT 18	0	SOLINIT 89	0
191	0	3187		SOLINIT 19	0	SOLINIT 90	0
192	0	3187		SOLINIT 20	0	SOLINIT 91	0
193	0	3187		SOLINIT 21	0	SOLINIT 92	0
194	0	3187		SOLINIT 22	0	SOLINIT 93	0
195	0	3187		SOLINIT 23	0	SOLINIT 94	0
196	0	3187		SOLINIT 24	0	SOLINIT 95	0
197	0	3187		SOLINIT 25	0	SOLINIT 96	0
198	0	3187		SOLINIT 26	0	SOLINIT 97	0
199	0	3187		SOLINIT 27	0	SOLINIT 98	0
200	0	3187		SOLINIT 28	0	SOLINIT 99	0
CEXCH	-1	0	D	SOLINIT 29	0	SOLINIT 100	0
DEGMIC	-1	0	G	SOLINIT 30	0	SOLINIT 101	0
DEGMAC	-1	0	G	SOLINIT 31	0	SOLINIT 102	0
SOLIMOB	-1	0	G	SOLINIT 32	0	SOLINIT 103	0
PAM	-1	0	D	SOLINIT 33	0	SOLINIT 104	0
CAM	-1	0	D	SOLINIT 34	0	SOLINIT 105	0
ADMI	-1	0	D	SOLINIT 35	0	SOLINIT 106	0
ADMA	-1	0	D	SOLINIT 36	0	SOLINIT 107	0
PAMT	-1	0	D	SOLINIT 37	0	SOLINIT 108	0
CAMT	-1	0	D	SOLINIT 38	0	SOLINIT 109	0
PCAA	-1	0	D	SOLINIT 39	0	SOLINIT 110	0
COLCMI	-1	0	D	SOLINIT 40	0	SOLINIT 111	0
COLCMA	-1	0	D	SOLINIT 41	0	SOLINIT 112	0
SFDMI	-1	0	D	SOLINIT 42	0	SOLINIT 113	0
SFDMA	-1	0	D	SOLINIT 43	0	SOLINIT 114	0
ZAM	-1	0	D	SOLINIT 44	0	SOLINIT 115	0
SFSDMA	-1	0	D	SOLINIT 45	0	SOLINIT 116	0
SFSDMI	-1	0	D	SOLINIT 46	0	SOLINIT 117	0
GAMMA	-1	0	GP	SOLINIT 47	0	SOLINIT 118	0
Z	-1	0	GP	SOLINIT 48	0	SOLINIT 119	0
XMPOR	-1	0	GP	SOLINIT 49	0	SOLINIT 120	0
ALPHA	-1	0	GP	SOLINIT 50	0	SOLINIT 121	0
KSM	-1	0	GP	SOLINIT 51	0	SOLINIT 122	0
ZN	-1	0	GP	SOLINIT 52	0	SOLINIT 123	0
ASCALE	-1	0	GP	SOLINIT 53	0	SOLINIT 124	0
TRAP_AIR	-1	0		SOLINIT 54	0	SOLINIT 125	0
GP				SOLINIT 55	0	SOLINIT 126	0
TSEXT	-1	0	GP	SOLINIT 56	0	SOLINIT 127	0
KSATMIN	-1	0	GP	SOLINIT 57	0	SOLINIT 128	0
TPORV	-1	0	GP	SOLINIT 58	0	SOLINIT 129	0
ADMI_KIN	-1	0		SOLINIT 59	0	SOLINIT 130	0
D				SOLINIT 60	0	SOLINIT 131	0
*****				SOLINIT 61	0	SOLINIT 132	0
*****				SOLINIT 62	0	SOLINIT 133	0
BOUNDARY AND INITIAL				SOLINIT 63	0	SOLINIT 134	0
CONDITIONS				SOLINIT 64	0	SOLINIT 135	0
AREA	0			SOLINIT 65	0	SOLINIT 136	0
BGRAD	0			SOLINIT 66	0	SOLINIT 137	0
BOTEN	1010			SOLINIT 67	0	SOLINIT 138	0
CONCIN	0			SOLINIT 68	0	SOLINIT 139	0
CONSTSTA	0			SOLINIT 69	0	SOLINIT 140	0
GWFLUX	0			SOLINIT 70	0	SOLINIT 141	0
IASCALE	0			SOLINIT 71	0	SOLINIT 142	0
SOLINIT 1	0			SOLINIT 72	0	SOLINIT 143	0
SOLINIT 2	0			SOLINIT 73	0	SOLINIT 144	0
SOLINIT 3	0			SOLINIT 74	0	SOLINIT 145	0
SOLINIT 4	0			SOLINIT 75	0	SOLINIT 146	0
SOLINIT 5	0			SOLINIT 76	0	SOLINIT 147	0
SOLINIT 6	0			SOLINIT 77	0	SOLINIT 148	0
SOLINIT 7	0			SOLINIT 78	0	SOLINIT 149	0
SOLINIT 8	0			SOLINIT 79	0	SOLINIT 150	0
SOLINIT 9	0			SOLINIT 80	0	SOLINIT 151	0
SOLINIT 10	0			SOLINIT 81	0	SOLINIT 152	0

SOLINIT 153	0	TEMPINI 24	10	TEMPINI 95	10
SOLINIT 154	0	TEMPINI 25	10	TEMPINI 96	10
SOLINIT 155	0	TEMPINI 26	10	TEMPINI 97	10
SOLINIT 156	0	TEMPINI 27	10	TEMPINI 98	10
SOLINIT 157	0	TEMPINI 28	10	TEMPINI 99	10
SOLINIT 158	0	TEMPINI 29	10	TEMPINI 100	10
SOLINIT 159	0	TEMPINI 30	10	TEMPINI 101	10
SOLINIT 160	0	TEMPINI 31	10	TEMPINI 102	10
SOLINIT 161	0	TEMPINI 32	10	TEMPINI 103	10
SOLINIT 162	0	TEMPINI 33	10	TEMPINI 104	10
SOLINIT 163	0	TEMPINI 34	10	TEMPINI 105	10
SOLINIT 164	0	TEMPINI 35	10	TEMPINI 106	10
SOLINIT 165	0	TEMPINI 36	10	TEMPINI 107	10
SOLINIT 166	0	TEMPINI 37	10	TEMPINI 108	10
SOLINIT 167	0	TEMPINI 38	10	TEMPINI 109	10
SOLINIT 168	0	TEMPINI 39	10	TEMPINI 110	10
SOLINIT 169	0	TEMPINI 40	10	TEMPINI 111	10
SOLINIT 170	0	TEMPINI 41	10	TEMPINI 112	10
SOLINIT 171	0	TEMPINI 42	10	TEMPINI 113	10
SOLINIT 172	0	TEMPINI 43	10	TEMPINI 114	10
SOLINIT 173	0	TEMPINI 44	10	TEMPINI 115	10
SOLINIT 174	0	TEMPINI 45	10	TEMPINI 116	10
SOLINIT 175	0	TEMPINI 46	10	TEMPINI 117	10
SOLINIT 176	0	TEMPINI 47	10	TEMPINI 118	10
SOLINIT 177	0	TEMPINI 48	10	TEMPINI 119	10
SOLINIT 178	0	TEMPINI 49	10	TEMPINI 120	10
SOLINIT 179	0	TEMPINI 50	10	TEMPINI 121	10
SOLINIT 180	0	TEMPINI 51	10	TEMPINI 122	10
SOLINIT 181	0	TEMPINI 52	10	TEMPINI 123	10
SOLINIT 182	0	TEMPINI 53	10	TEMPINI 124	10
SOLINIT 183	0	TEMPINI 54	10	TEMPINI 125	10
SOLINIT 184	0	TEMPINI 55	10	TEMPINI 126	10
SOLINIT 185	0	TEMPINI 56	10	TEMPINI 127	10
SOLINIT 186	0	TEMPINI 57	10	TEMPINI 128	10
SOLINIT 187	0	TEMPINI 58	10	TEMPINI 129	10
SOLINIT 188	0	TEMPINI 59	10	TEMPINI 130	10
SOLINIT 189	0	TEMPINI 60	10	TEMPINI 131	10
SOLINIT 190	0	TEMPINI 61	10	TEMPINI 132	10
SOLINIT 191	0	TEMPINI 62	10	TEMPINI 133	10
SOLINIT 192	0	TEMPINI 63	10	TEMPINI 134	10
SOLINIT 193	0	TEMPINI 64	10	TEMPINI 135	10
SOLINIT 194	0	TEMPINI 65	10	TEMPINI 136	10
SOLINIT 195	0	TEMPINI 66	10	TEMPINI 137	10
SOLINIT 196	0	TEMPINI 67	10	TEMPINI 138	10
SOLINIT 197	0	TEMPINI 68	10	TEMPINI 139	10
SOLINIT 198	0	TEMPINI 69	10	TEMPINI 140	10
SOLINIT 199	0	TEMPINI 70	10	TEMPINI 141	10
SOLINIT 200	0	TEMPINI 71	10	TEMPINI 142	10
TEMPINI 1	10	TEMPINI 72	10	TEMPINI 143	10
TEMPINI 2	10	TEMPINI 73	10	TEMPINI 144	10
TEMPINI 3	10	TEMPINI 74	10	TEMPINI 145	10
TEMPINI 4	10	TEMPINI 75	10	TEMPINI 146	10
TEMPINI 5	10	TEMPINI 76	10	TEMPINI 147	10
TEMPINI 6	10	TEMPINI 77	10	TEMPINI 148	10
TEMPINI 7	10	TEMPINI 78	10	TEMPINI 149	10
TEMPINI 8	10	TEMPINI 79	10	TEMPINI 150	10
TEMPINI 9	10	TEMPINI 80	10	TEMPINI 151	10
TEMPINI 10	10	TEMPINI 81	10	TEMPINI 152	10
TEMPINI 11	10	TEMPINI 82	10	TEMPINI 153	10
TEMPINI 12	10	TEMPINI 83	10	TEMPINI 154	10
TEMPINI 13	10	TEMPINI 84	10	TEMPINI 155	10
TEMPINI 14	10	TEMPINI 85	10	TEMPINI 156	10
TEMPINI 15	10	TEMPINI 86	10	TEMPINI 157	10
TEMPINI 16	10	TEMPINI 87	10	TEMPINI 158	10
TEMPINI 17	10	TEMPINI 88	10	TEMPINI 159	10
TEMPINI 18	10	TEMPINI 89	10	TEMPINI 160	10
TEMPINI 19	10	TEMPINI 90	10	TEMPINI 161	10
TEMPINI 20	10	TEMPINI 91	10	TEMPINI 162	10
TEMPINI 21	10	TEMPINI 92	10	TEMPINI 163	10
TEMPINI 22	10	TEMPINI 93	10	TEMPINI 164	10
TEMPINI 23	10	TEMPINI 94	10	TEMPINI 165	10

TEMPINI 166	10		THETAINI	37	0	THETAINI	108	0
TEMPINI 167	10		THETAINI	38	0	THETAINI	109	0
TEMPINI 168	10		THETAINI	39	0	THETAINI	110	0
TEMPINI 169	10		THETAINI	40	0	THETAINI	111	0
TEMPINI 170	10		THETAINI	41	0	THETAINI	112	0
TEMPINI 171	10		THETAINI	42	0	THETAINI	113	0
TEMPINI 172	10		THETAINI	43	0	THETAINI	114	0
TEMPINI 173	10		THETAINI	44	0	THETAINI	115	0
TEMPINI 174	10		THETAINI	45	0	THETAINI	116	0
TEMPINI 175	10		THETAINI	46	0	THETAINI	117	0
TEMPINI 176	10		THETAINI	47	0	THETAINI	118	0
TEMPINI 177	10		THETAINI	48	0	THETAINI	119	0
TEMPINI 178	10		THETAINI	49	0	THETAINI	120	0
TEMPINI 179	10		THETAINI	50	0	THETAINI	121	0
TEMPINI 180	10		THETAINI	51	0	THETAINI	122	0
TEMPINI 181	10		THETAINI	52	0	THETAINI	123	0
TEMPINI 182	10		THETAINI	53	0	THETAINI	124	0
TEMPINI 183	10		THETAINI	54	0	THETAINI	125	0
TEMPINI 184	10		THETAINI	55	0	THETAINI	126	0
TEMPINI 185	10		THETAINI	56	0	THETAINI	127	0
TEMPINI 186	10		THETAINI	57	0	THETAINI	128	0
TEMPINI 187	10		THETAINI	58	0	THETAINI	129	0
TEMPINI 188	10		THETAINI	59	0	THETAINI	130	0
TEMPINI 189	10		THETAINI	60	0	THETAINI	131	0
TEMPINI 190	10		THETAINI	61	0	THETAINI	132	0
TEMPINI 191	10		THETAINI	62	0	THETAINI	133	0
TEMPINI 192	10		THETAINI	63	0	THETAINI	134	0
TEMPINI 193	10		THETAINI	64	0	THETAINI	135	0
TEMPINI 194	10		THETAINI	65	0	THETAINI	136	0
TEMPINI 195	10		THETAINI	66	0	THETAINI	137	0
TEMPINI 196	10		THETAINI	67	0	THETAINI	138	0
TEMPINI 197	10		THETAINI	68	0	THETAINI	139	0
TEMPINI 198	10		THETAINI	69	0	THETAINI	140	0
TEMPINI 199	10		THETAINI	70	0	THETAINI	141	0
TEMPINI 200	10		THETAINI	71	0	THETAINI	142	0
THETAINI	1	0	THETAINI	72	0	THETAINI	143	0
THETAINI	2	0	THETAINI	73	0	THETAINI	144	0
THETAINI	3	0	THETAINI	74	0	THETAINI	145	0
THETAINI	4	0	THETAINI	75	0	THETAINI	146	0
THETAINI	5	0	THETAINI	76	0	THETAINI	147	0
THETAINI	6	0	THETAINI	77	0	THETAINI	148	0
THETAINI	7	0	THETAINI	78	0	THETAINI	149	0
THETAINI	8	0	THETAINI	79	0	THETAINI	150	0
THETAINI	9	0	THETAINI	80	0	THETAINI	151	0
THETAINI	10	0	THETAINI	81	0	THETAINI	152	0
THETAINI	11	0	THETAINI	82	0	THETAINI	153	0
THETAINI	12	0	THETAINI	83	0	THETAINI	154	0
THETAINI	13	0	THETAINI	84	0	THETAINI	155	0
THETAINI	14	0	THETAINI	85	0	THETAINI	156	0
THETAINI	15	0	THETAINI	86	0	THETAINI	157	0
THETAINI	16	0	THETAINI	87	0	THETAINI	158	0
THETAINI	17	0	THETAINI	88	0	THETAINI	159	0
THETAINI	18	0	THETAINI	89	0	THETAINI	160	0
THETAINI	19	0	THETAINI	90	0	THETAINI	161	0
THETAINI	20	0	THETAINI	91	0	THETAINI	162	0
THETAINI	21	0	THETAINI	92	0	THETAINI	163	0
THETAINI	22	0	THETAINI	93	0	THETAINI	164	0
THETAINI	23	0	THETAINI	94	0	THETAINI	165	0
THETAINI	24	0	THETAINI	95	0	THETAINI	166	0
THETAINI	25	0	THETAINI	96	0	THETAINI	167	0
THETAINI	26	0	THETAINI	97	0	THETAINI	168	0
THETAINI	27	0	THETAINI	98	0	THETAINI	169	0
THETAINI	28	0	THETAINI	99	0	THETAINI	170	0
THETAINI	29	0	THETAINI	100	0	THETAINI	171	0
THETAINI	30	0	THETAINI	101	0	THETAINI	172	0
THETAINI	31	0	THETAINI	102	0	THETAINI	173	0
THETAINI	32	0	THETAINI	103	0	THETAINI	174	0
THETAINI	33	0	THETAINI	104	0	THETAINI	175	0
THETAINI	34	0	THETAINI	105	0	THETAINI	176	0
THETAINI	35	0	THETAINI	106	0	THETAINI	177	0
THETAINI	36	0	THETAINI	107	0	THETAINI	178	0

THETAINI	179	0	THETAINI	195	0	Groundwater
THETAINI	180	0	THETAINI	196	0	
THETAINI	181	0	THETAINI	197	0	Simulation from 19010101
THETAINI	182	0	THETAINI	198	0	to 19270101, application
THETAINI	183	0	THETAINI	199	0	every year
THETAINI	184	0	THETAINI	200	0	(6 year warm-up)
THETAINI	185	0	*****			
THETAINI	186	0	INFORMATION			Crop : Cereals, winter,
THETAINI	187	0	MACRO in FOCUS Version			irrigated
THETAINI	188	0	5.5.4			
THETAINI	189	0	Output File =			Number of applications : 1
THETAINI	190	0	C:\SWASH\macro\Multi_GW\M3			
THETAINI	191	0	B34_ID142\macro142.bin			Application 1 :
THETAINI	192	0	Type of compound = parent			14.5105693359375 g/ha of
THETAINI	193	0	Compound : M3B34			M3B34 on day 96
THETAINI	194	0	Scenario : Chateaudun			

**Listing 12: Tier 1b – Representative *.par file for M3 (metabolite) for MACRO 5.5.4
– 60 g/ha to Spring Cereals at BBCH 21 for Châteaudun scenario**

```

NUMERICAL LAYERS      200      TPORV   3      44
GENERAL PARAMETERS    TPORV   4      44
RUNID 135             TPORV   5      44
NUMERICAL LAYERS      200      TPORV   6      49
NHORIZON              6      TRAPAIR 1      0
NLAYER 200            TRAPAIR 2      0
*****              TRAPAIR 3      0
*****              TRAPAIR 4      0
*****              TRAPAIR 5      0
*****              TRAPAIR 6      0
PHYSICAL PARAMETERS  TRAPAIR 6      0
NHORIZONS              6      WILT    1      25.8
ALPHA 1      0.05      WILT    2      23.7
ALPHA 2      0.05      WILT    3      23.7
ALPHA 3      0.05      WILT    4      18.8
ALPHA 4      0.015     WILT    5      18.8
ALPHA 5      0.015     WILT    6      15
ALPHA 6      0.0107    WILT    6      15
ASCALE 1      10      XMPOR   1      41
ASCALE 2      75      XMPOR   2      43
ASCALE 3      75      XMPOR   3      43
ASCALE 4      1       XMPOR   4      43
ASCALE 5      1       XMPOR   5      43
ASCALE 6      4       XMPOR   6      47
CTEN 1      20      ZA      1      1
CTEN 2      20      ZA      2      1
CTEN 3      20      ZA      3      1
CTEN 4      40      ZA      4      1
CTEN 5      40      ZA      5      1
CTEN 6      30      ZA      6      1
GAMMA 1      1.3      ZM      1      -0.5
GAMMA 2      1.41     ZM      2      -0.5
GAMMA 3      1.41     ZM      3      1.5
GAMMA 4      1.37     ZM      4      -4
GAMMA 5      1.37     ZM      5      -4
GAMMA 6      1.41     ZM      6      -3.5
KSATMIN 1      72      ZN      1      3
KSATMIN 2      108     ZN      2      3
KSATMIN 3      180     ZN      3      3
KSATMIN 4      43      ZN      4      2
KSATMIN 5      43      ZN      5      2
KSATMIN 6      33      ZN      6      2
KSM 1      0.25      ZP      1      0
KSM 2      0.5       ZP      2      0
KSM 3      1         ZP      3      0
KSM 4      1         ZP      4      0
KSM 5      1         ZP      5      0
KSM 6      3.25      ZP      6      0
*****
N 1      1.07
N 2      1.09
N 3      1.09
N 4      1.14
N 5      1.14
N 6      1.19
RESID 1      0
RESID 2      0
RESID 3      0
RESID 4      0
RESID 5      0
RESID 6      0
STONE 1      0
STONE 2      0
STONE 3      0
STONE 4      0
STONE 5      0
STONE 6      0
TPORV 1      43
TPORV 2      44
*****
PROPERTIES
NHORIZONS              6
CLAY 1      30
CLAY 2      31
CLAY 3      25
CLAY 4      26
CLAY 5      24
CLAY 6      31
HTICK 1      25
HTICK 2      25
HTICK 3      10
HTICK 4      40
HTICK 5      20
HTICK 6      70
NLAYER 1      26
NLAYER 2      26
NLAYER 3      10
NLAYER 4      42
*****
NLAYER 5      21
NLAYER 6      75
ORGC 1      1.39
ORGC 2      0.93
ORGC 3      0.7
ORGC 4      0.3
ORGC 5      0.3
ORGC 6      0.27
THICKNESS 1      25
THICKNESS 2      25
THICKNESS 3      10
THICKNESS 4      40
THICKNESS 5      20
THICKNESS 6      70
*****
*****
OPTIONS
AVERAGET      1
AVERAGEX      2
BOUNDARY      4
CHAPAR 0
CROP 2
CRUST 0
DEGKIN 0
DRIVING 1
EVAPORATE      1
INITIAL 1
IRRIGATE      1
KINETIC 0
MASSUNITS      2
METABOLITE      0
RAINFALL      1
SOLUTE 2
TEMPINI 0
TILEDRAIN      2
VARTENSION      0
*****
*****
SOLUTE PARAMETERS
CANDEG 0
CONC 0
DIFF 4.976852E-10
DV 5
EXPB 0.49
FCONVERT      0.5778129
FEXT 0
FRACEQ 0
FRACK 0
FRACMAC 0.02
FSTAR 0.784
PF1 2
PF2 0
SORPRATE      0
TREF 20
TRESP 0.0948
KOC 32.0664
ZMIX 1
NHORIZONS      6
AEXC 1      0
AEXC 2      0
AEXC 3      0
AEXC 4      0
AEXC 5      0
AEXC 6      0
DEGMAL 1      0.01750372
DEGMAL 2      0.008751859

```

DEGMAL 3	0.008751859	ZHMIN 1	0	IRRIGNO 1	
DEGMAL 4	0.005251116	*****		IRRDAY 90	
DEGMAL 5	0	*****		IRRSTART	9
DEGMAL 6	0	SITE PARAMETERS		IRREND 9.2	
DEGMAS 1	0.01750372	ALBEDO 0.25		AMIR 0.1	
DEGMAS 2	0.008751859	ANNAMP 7.7		CONCI 0	
DEGMAS 3	0.008751859	ANNTAV 11.9		ZFINT 0	
DEGMAS 4	0.005251116	DRAINDEP 0		IRRYEAR 7	
DEGMAS 5	0	DWRL 0		NIRRIGATIONS 1	1
DEGMAS 6	0	LAYERD 0		IRRIGNO 1	
DEGMIL 1	0.01750372	PHI 48.1		IRRDAY 90	
DEGMIL 2	0.008751859	RAINCO 1		IRRSTART	9
DEGMIL 3	0.008751859	RGWFLOW 0		IRREND 9.2	
DEGMIL 4	0.005251116	RINTEN 2		AMIR 0.1	
DEGMIL 5	0	SNOWCO 1		CONCI 0	
DEGMIL 6	0	SNOWMF 4.5		ZFINT 0	
DEGMIS 1	0.01750372	SPACE 0		IRRYEAR 8	
DEGMIS 2	0.008751859	ZMET 10		NIRRIGATIONS 1	1
DEGMIS 3	0.008751859	*****		IRRIGNO 1	
DEGMIS 4	0.005251116	*****		IRRDAY 90	
DEGMIS 5	0	IRRIGATION PARAMETERS		IRRSTART	9
DEGMIS 6	0	IRRSAME True		IRREND 9.2	
FREUND 1	0.96	CRITDEF -1		AMIR 0.1	
FREUND 2	0.96	IRRYEARS 26		CONCI 0	
FREUND 3	0.96	IRRYEAR 1		ZFINT 0	
FREUND 4	0.96	NIRRIGATIONS 1		IRRYEAR 9	
FREUND 5	0.96	IRRIGNO 1		NIRRIGATIONS 1	1
FREUND 6	0.96	IRRDAY 90		IRRIGNO 1	
ZKD 1	0.4457229	IRRSTART 9		IRRDAY 90	
ZKD 2	0.2982175	IRREND 9.2		IRRSTART	9
ZKD 3	0.2244648	AMIR 0.1		IRREND 9.2	
ZKD 4	0.0961992	CONCI 0		AMIR 0.1	
ZKD 5	0.0961992	ZFINT 0		CONCI 0	
ZKD 6	0.08657928	IRRYEAR 2		ZFINT 0	
*****		NIRRIGATIONS 1		IRRYEAR 10	
*****		IRRIGNO 1		NIRRIGATIONS 1	1
CROP PARAMETERS		IRRDAY 90		IRRIGNO 1	
NCROPS 1		IRRSTART 9		IRRDAY 90	
ATTEN 1	0.6	IRREND 9.2		IRRSTART	9
BETA 1	0.2	AMIR 0.1		IRREND 9.2	
CANCAP 1	2	CONCI 0		AMIR 0.1	
CFORM 1	2	ZFINT 0		CONCI 0	
CRITAIR 1	5	IRRYEAR 3		ZFINT 0	
DFORM 1	0.3	NIRRIGATIONS 1		IRRYEAR 11	
FAWC 1	0.6536142	IRRIGNO 1		NIRRIGATIONS 1	1
HCROP 1	0	IRRDAY 90		IRRIGNO 1	
HMAX 1	0	IRRSTART 9		IRRDAY 90	
IDMAX 1	161	IRREND 9.2		IRRSTART	9
IDMAX2 1	0	AMIR 0.1		IRREND 9.2	
IDSTART 1	69	CONCI 0		AMIR 0.1	
IDSTART2 1	0	ZFINT 0		CONCI 0	
IHARV 1	201	IRRYEAR 4		ZFINT 0	
IHARV2 1	0	NIRRIGATIONS 1		IRRYEAR 12	
LAIC 1	0	IRRIGNO 1		NIRRIGATIONS 1	1
LAIHAR 1	2	IRRDAY 90		IRRIGNO 1	
LAIMAX 1	5	IRRSTART 9		IRRDAY 90	
LAIMIN 1	0.01	IRREND 9.2		IRRSTART	9
NCROP 1	1	AMIR 0.1		IRREND 9.2	
RI50 1	50	CONCI 0		AMIR 0.1	
ROOTDEP 1	0	ZFINT 0		CONCI 0	
ROOTINIT 1	0.01	IRRYEAR 5		ZFINT 0	
ROOTMAX 1	0.6	NIRRIGATIONS 1		IRRYEAR 13	
RPIN 1	60	IRRIGNO 1		NIRRIGATIONS 1	1
RSMIN 1	0	IRRDAY 90		IRRIGNO 1	
RSURF 1	0	IRRSTART 9		IRRDAY 90	
WATEN 1	20	IRREND 9.2		IRRSTART	9
VPD50 1	50	AMIR 0.1		IRREND 9.2	
ZALP 1	1	CONCI 0		AMIR 0.1	
ZDATEMIN 1	70	ZFINT 0		CONCI 0	
ZDATEMIN2 1	0	IRRYEAR 6		ZFINT 0	
		NIRRIGATIONS 1		IRRYEAR 14	

NIRRIGATIONS	1	IRRYEAR 22		ti_GW\M3_3b_ID135\bin\ckm6
IRRIGNO 1		NIRRIGATIONS	1	p.BIN
IRRDAY 90		IRRIGNO 1		TENSIONFILE (none)
IRRSTART	9	IRRDAY 90		TOTPHYSLAYER 200
IRREND 9.2		IRRSTART	9	*****
AMIR 0.1		IRREND 9.2		*****
CONCI 0		AMIR 0.1		TILLAGE PARAMETERS
ZFINT 0		CONCI 0		CRUSTSTA 0
IRRYEAR 15		ZFINT 0		DUMMY 0
NIRRIGATIONS	1	IRRYEAR 23		GAMMASEAL 0
IRRIGNO 1		NIRRIGATIONS	1	GAMMATILL 0
IRRDAY 90		IRRIGNO 1		HALFCRUS 0
IRRSTART	9	IRRDAY 90		HALFRAIN 0
IRREND 9.2		IRRSTART	9	KSMSEAL 0
AMIR 0.1		IRREND 9.2		KSMTILLE 0
CONCI 0		AMIR 0.1		MACDCH 0
ZFINT 0		CONCI 0		MACPCH 0
IRRYEAR 16		ZFINT 0		NTILL 0
NIRRIGATIONS	1	IRRYEAR 24		XMPOSEAL 0
IRRIGNO 1		NIRRIGATIONS	1	ZNSEAL 0
IRRDAY 90		IRRIGNO 1		*****
IRRSTART	9	IRRDAY 90		*****
IRREND 9.2		IRRSTART	9	OUTPUTS
AMIR 0.1		IRREND 9.2		NSINGLE 81
CONCI 0		AMIR 0.1		RRNRRAIN -1 0 X
ZFINT 0		CONCI 0		ACCMELT -1 0 X
IRRYEAR 17		ZFINT 0		PWT -1 0 X
NIRRIGATIONS	1	IRRYEAR 25		INFILMI -1 0 X
IRRIGNO 1		NIRRIGATIONS	1	INFILMA -1 0 X
IRRDAY 90		IRRIGNO 1		CINFIL -1 0 X
IRRSTART	9	IRRDAY 90		RAIN -1 0 X
IRREND 9.2		IRRSTART	9	CETA -1 0 T
AMIR 0.1		IRREND 9.2		EPOT -1 0 T
CONCI 0		AMIR 0.1		CCEPOT -1 0 T
ZFINT 0		CONCI 0		CCETA -1 0 T
IRRYEAR 18		ZFINT 0		TPRECIP -1 0 T
NIRRIGATIONS	1	IRRYEAR 26		TTPRECIP -1 0
IRRIGNO 1		NIRRIGATIONS	1	T
IRRDAY 90		IRRIGNO 1		SSEEP 0 0 T
IRRSTART	9	IRRDAY 90		TSEEP 0 0 T
IRREND 9.2		IRRSTART	9	CRES -1 0 T
AMIR 0.1		IRREND 9.2		SRUNOFF -1 0 T
CONCI 0		AMIR 0.1		WWW -1 0 T
ZFINT 0		CONCI 0		TRUNOFF -1 1 T
IRRYEAR 19		ZFINT 0		TFLOWOUT -1 1
NIRRIGATIONS	1	*****		T
IRRIGNO 1		*****		TFLOW -1 0 T
IRRDAY 90		SETUP		TSTOREMI -1 1
IRRSTART	9	DATEFILE		T
IRREND 9.2		DRIVINGFILE		TSTOREMA -1 1
AMIR 0.1		macro131.bin		T
CONCI 0		DRIVINGPERIOD 01/01/1901-		PRECIRR -1 0 T
ZFINT 0		01/01/1927		PRECIRA -1 1 T
IRRYEAR 20		ENDDATE 1927-01-01 00:00		SEEPMI 0 0 T
NIRRIGATIONS	1	OUTPUTFILE		SEEPMIAC 0 0
IRRIGNO 1		macro135.bin		T
IRRDAY 90		METFILE		PSOIL -1 0 T
IRRSTART	9	C:\SWASH\macro\Mul		UPT -1 0 T
IRREND 9.2		ti_GW\M3_3b_ID135\bin\ckm6		CPSOIL -1 0 T
AMIR 0.1		et.BIN		CUPT -1 0 T
CONCI 0		METPERIOD 1901-01-01		ESOIL -1 0 T
ZFINT 0		00:00-1927-01-01 00:00		ETA -1 0 T
IRRYEAR 21		NUMLAYERS 0		WETACT -1 0 T
NIRRIGATIONS	1	OUTINTD 1		CESOIL -1 0 T
IRRIGNO 1		OUTINTM 0		CETC -1 0 T
IRRDAY 90		PERIODFILE10 (none)		CCET -1 1 T
IRRSTART	9	STARTDATE 1901-01-01		GSRAT 0 0 T
IRREND 9.2		00:00		GSTOT 0 0 T
AMIR 0.1		RAINFALLFILE		WATEREQ -1 0 T
CONCI 0		C:\SWASH\macro\Mul		BOTFLOW -1 0 G
ZFINT 0				

DRAINCON	0	0	17	0	3323	88	0	3323
G			18	0	3323	89	0	3323
TMAX -1	0	G	19	0	3323	90	0	3323
TMIN -1	0	G	20	0	3323	91	0	3323
SMICIN -1	0	G	21	0	3323	92	0	3323
SMACIN -1	0	G	22	0	3323	93	0	3323
GRCON 0	0	G	23	0	3323	94	0	3323
TAV -1	0	G	24	0	3323	95	0	3323
GLOBAL -1	0	G	25	0	3323	96	0	3323
TSOUT -1	1	D	26	0	3323	97	0	3323
TSS -1	0	D	27	0	3323	98	0	3323
SSS -1	0	D	28	0	3323	99	0	3323
TSRUN -1	1	D	29	0	3323	100	0	3323
TPAM -1	1	D	30	0	3323	101	0	3323
TCAM -1	1	D	31	0	3323	102	0	3323
TADMI -1	1	D	32	0	3323	103	0	3323
TADMA -1	1	D	33	0	3323	104	1	3323
TDEG -1	1	D	34	0	3323	105	0	3323
TUPT -1	1	D	35	0	3323	106	0	3323
SAMS -1	0	D	36	0	3323	107	0	3323
CDEG -1	0	D	37	0	3323	108	0	3323
DRAINLOS	0	0	38	0	3323	109	0	3323
D			39	0	3323	110	0	3323
DSOLTOSS	0	0	40	0	3323	111	0	3323
D			41	0	3323	112	0	3323
DSOLTMIC	0	0	42	0	3323	113	0	3323
D			43	0	3323	114	0	3323
TSOLTMIC	0	0	44	0	3323	115	0	3323
D			45	0	3323	116	0	3323
ELOSS 0	0	D	46	0	3323	117	0	3323
SSRAT 0	0	D	47	0	3323	118	0	3323
SSTOT 0	0	D	48	0	3323	119	0	3323
CFOUT 0	0	D	49	0	3323	120	0	3323
ACFOUT 0	0	D	50	0	3323	121	0	3323
TCOLLMA 0	0	D	51	0	3323	122	0	3323
TCOLLM I 0	0	D	52	0	3323	123	0	3323
CFDRAIN 0	0	D	53	0	3323	124	0	3323
ACFDRAIN	0	0	54	0	3323	125	0	3323
D			55	0	3323	126	0	3323
TDEC 0	0	D	56	0	3323	127	0	3323
TIMMOB 0	0	D	57	0	3323	128	0	3323
GENERATE	0	0	58	0	3323	129	0	3323
D			59	0	3323	130	0	3323
GSINK -1	0	D	60	0	3323	131	0	3323
CFDRS 0	0	D	61	0	3323	132	0	3323
ACFDRS 0	0	D	62	0	3323	133	0	3323
PC 0	0	D	63	0	3323	134	0	3323
NLAYERED	49		64	0	3323	135	0	3323
THETA -1	0	X	65	0	3323	136	0	3323
THETI -1	0	X	66	0	3323	137	0	3323
THETT -1	0	X	67	0	3323	138	0	3323
TMPOR -1	0	X	68	0	3323	139	0	3323
CPSI -1	0	X	69	0	3323	140	0	3323
ZUPTAKE -1	0	X	70	0	3323	141	0	3323
WOUT -1	1	X	71	0	3323	142	0	3323
1	0	3323	72	0	3323	143	0	3323
2	0	3323	73	0	3323	144	0	3323
3	0	3323	74	0	3323	145	0	3323
4	0	3323	75	0	3323	146	0	3323
5	0	3323	76	0	3323	147	0	3323
6	0	3323	77	0	3323	148	0	3323
7	0	3323	78	0	3323	149	0	3323
8	0	3323	79	0	3323	150	0	3323
9	0	3323	80	0	3323	151	0	3323
10	0	3323	81	0	3323	152	0	3323
11	0	3323	82	0	3323	153	0	3323
12	0	3323	83	0	3323	154	0	3323
13	0	3323	84	0	3323	155	0	3323
14	0	3323	85	0	3323	156	0	3323
15	0	3323	86	0	3323	157	0	3323
16	0	3323	87	0	3323	158	0	3323

159	0	3323		25	0	3326	96	0	3326
160	0	3323		26	0	3326	97	0	3326
161	0	3323		27	0	3326	98	0	3326
162	0	3323		28	0	3326	99	0	3326
163	0	3323		29	0	3326	100	0	3326
164	0	3323		30	0	3326	101	0	3326
165	0	3323		31	0	3326	102	0	3326
166	0	3323		32	0	3326	103	0	3326
167	0	3323		33	0	3326	104	1	3326
168	0	3323		34	0	3326	105	0	3326
169	0	3323		35	0	3326	106	0	3326
170	0	3323		36	0	3326	107	0	3326
171	0	3323		37	0	3326	108	0	3326
172	0	3323		38	0	3326	109	0	3326
173	0	3323		39	0	3326	110	0	3326
174	0	3323		40	0	3326	111	0	3326
175	0	3323		41	0	3326	112	0	3326
176	0	3323		42	0	3326	113	0	3326
177	0	3323		43	0	3326	114	0	3326
178	0	3323		44	0	3326	115	0	3326
179	0	3323		45	0	3326	116	0	3326
180	0	3323		46	0	3326	117	0	3326
181	0	3323		47	0	3326	118	0	3326
182	0	3323		48	0	3326	119	0	3326
183	0	3323		49	0	3326	120	0	3326
184	0	3323		50	0	3326	121	0	3326
185	0	3323		51	0	3326	122	0	3326
186	0	3323		52	0	3326	123	0	3326
187	0	3323		53	0	3326	124	0	3326
188	0	3323		54	0	3326	125	0	3326
189	0	3323		55	0	3326	126	0	3326
190	0	3323		56	0	3326	127	0	3326
191	0	3323		57	0	3326	128	0	3326
192	0	3323		58	0	3326	129	0	3326
193	0	3323		59	0	3326	130	0	3326
194	0	3323		60	0	3326	131	0	3326
195	0	3323		61	0	3326	132	0	3326
196	0	3323		62	0	3326	133	0	3326
197	0	3323		63	0	3326	134	0	3326
198	0	3323		64	0	3326	135	0	3326
199	0	3323		65	0	3326	136	0	3326
200	0	3323		66	0	3326	137	0	3326
EXCHANGE	-1	0		67	0	3326	138	0	3326
X				68	0	3326	139	0	3326
THETAMA -1	0	X		69	0	3326	140	0	3326
WFLOWOUT	-1	1		70	0	3326	141	0	3326
X				71	0	3326	142	0	3326
1	0	3326		72	0	3326	143	0	3326
2	0	3326		73	0	3326	144	0	3326
3	0	3326		74	0	3326	145	0	3326
4	0	3326		75	0	3326	146	0	3326
5	0	3326		76	0	3326	147	0	3326
6	0	3326		77	0	3326	148	0	3326
7	0	3326		78	0	3326	149	0	3326
8	0	3326		79	0	3326	150	0	3326
9	0	3326		80	0	3326	151	0	3326
10	0	3326		81	0	3326	152	0	3326
11	0	3326		82	0	3326	153	0	3326
12	0	3326		83	0	3326	154	0	3326
13	0	3326		84	0	3326	155	0	3326
14	0	3326		85	0	3326	156	0	3326
15	0	3326		86	0	3326	157	0	3326
16	0	3326		87	0	3326	158	0	3326
17	0	3326		88	0	3326	159	0	3326
18	0	3326		89	0	3326	160	0	3326
19	0	3326		90	0	3326	161	0	3326
20	0	3326		91	0	3326	162	0	3326
21	0	3326		92	0	3326	163	0	3326
22	0	3326		93	0	3326	164	0	3326
23	0	3326		94	0	3326	165	0	3326
24	0	3326		95	0	3326	166	0	3326

167	0	3326		30	0	3333	101	0	3333
168	0	3326		31	0	3333	102	0	3333
169	0	3326		32	0	3333	103	0	3333
170	0	3326		33	0	3333	104	1	3333
171	0	3326		34	0	3333	105	0	3333
172	0	3326		35	0	3333	106	0	3333
173	0	3326		36	0	3333	107	0	3333
174	0	3326		37	0	3333	108	0	3333
175	0	3326		38	0	3333	109	0	3333
176	0	3326		39	0	3333	110	0	3333
177	0	3326		40	0	3333	111	0	3333
178	0	3326		41	0	3333	112	0	3333
179	0	3326		42	0	3333	113	0	3333
180	0	3326		43	0	3333	114	0	3333
181	0	3326		44	0	3333	115	0	3333
182	0	3326		45	0	3333	116	0	3333
183	0	3326		46	0	3333	117	0	3333
184	0	3326		47	0	3333	118	0	3333
185	0	3326		48	0	3333	119	0	3333
186	0	3326		49	0	3333	120	0	3333
187	0	3326		50	0	3333	121	0	3333
188	0	3326		51	0	3333	122	0	3333
189	0	3326		52	0	3333	123	0	3333
190	0	3326		53	0	3333	124	0	3333
191	0	3326		54	0	3333	125	0	3333
192	0	3326		55	0	3333	126	0	3333
193	0	3326		56	0	3333	127	0	3333
194	0	3326		57	0	3333	128	0	3333
195	0	3326		58	0	3333	129	0	3333
196	0	3326		59	0	3333	130	0	3333
197	0	3326		60	0	3333	131	0	3333
198	0	3326		61	0	3333	132	0	3333
199	0	3326		62	0	3333	133	0	3333
200	0	3326		63	0	3333	134	0	3333
DRAINFL0	-1	0		64	0	3333	135	0	3333
X				65	0	3333	136	0	3333
DRAINMI -1	0	X		66	0	3333	137	0	3333
THETAM -1	0	X		67	0	3333	138	0	3333
TEMP -1	0	G		68	0	3333	139	0	3333
SOLMIC -1	0	G		69	0	3333	140	0	3333
SOLMAC -1	0	G		70	0	3333	141	0	3333
SFLOW -1	1	G		71	0	3333	142	0	3333
1	0	3333		72	0	3333	143	0	3333
2	0	3333		73	0	3333	144	0	3333
3	0	3333		74	0	3333	145	0	3333
4	0	3333		75	0	3333	146	0	3333
5	0	3333		76	0	3333	147	0	3333
6	0	3333		77	0	3333	148	0	3333
7	0	3333		78	0	3333	149	0	3333
8	0	3333		79	0	3333	150	0	3333
9	0	3333		80	0	3333	151	0	3333
10	0	3333		81	0	3333	152	0	3333
11	0	3333		82	0	3333	153	0	3333
12	0	3333		83	0	3333	154	0	3333
13	0	3333		84	0	3333	155	0	3333
14	0	3333		85	0	3333	156	0	3333
15	0	3333		86	0	3333	157	0	3333
16	0	3333		87	0	3333	158	0	3333
17	0	3333		88	0	3333	159	0	3333
18	0	3333		89	0	3333	160	0	3333
19	0	3333		90	0	3333	161	0	3333
20	0	3333		91	0	3333	162	0	3333
21	0	3333		92	0	3333	163	0	3333
22	0	3333		93	0	3333	164	0	3333
23	0	3333		94	0	3333	165	0	3333
24	0	3333		95	0	3333	166	0	3333
25	0	3333		96	0	3333	167	0	3333
26	0	3333		97	0	3333	168	0	3333
27	0	3333		98	0	3333	169	0	3333
28	0	3333		99	0	3333	170	0	3333
29	0	3333		100	0	3333	171	0	3333

172	0	3333		41	0	3334		112	0	3334
173	0	3333		42	0	3334		113	0	3334
174	0	3333		43	0	3334		114	0	3334
175	0	3333		44	0	3334		115	0	3334
176	0	3333		45	0	3334		116	0	3334
177	0	3333		46	0	3334		117	0	3334
178	0	3333		47	0	3334		118	0	3334
179	0	3333		48	0	3334		119	0	3334
180	0	3333		49	0	3334		120	0	3334
181	0	3333		50	0	3334		121	0	3334
182	0	3333		51	0	3334		122	0	3334
183	0	3333		52	0	3334		123	0	3334
184	0	3333		53	0	3334		124	0	3334
185	0	3333		54	0	3334		125	0	3334
186	0	3333		55	0	3334		126	0	3334
187	0	3333		56	0	3334		127	0	3334
188	0	3333		57	0	3334		128	0	3334
189	0	3333		58	0	3334		129	0	3334
190	0	3333		59	0	3334		130	0	3334
191	0	3333		60	0	3334		131	0	3334
192	0	3333		61	0	3334		132	0	3334
193	0	3333		62	0	3334		133	0	3334
194	0	3333		63	0	3334		134	0	3334
195	0	3333		64	0	3334		135	0	3334
196	0	3333		65	0	3334		136	0	3334
197	0	3333		66	0	3334		137	0	3334
198	0	3333		67	0	3334		138	0	3334
199	0	3333		68	0	3334		139	0	3334
200	0	3333		69	0	3334		140	0	3334
SFLOWOUT		-1	1	70	0	3334		141	0	3334
G				71	0	3334		142	0	3334
1	0	3334		72	0	3334		143	0	3334
2	0	3334		73	0	3334		144	0	3334
3	0	3334		74	0	3334		145	0	3334
4	0	3334		75	0	3334		146	0	3334
5	0	3334		76	0	3334		147	0	3334
6	0	3334		77	0	3334		148	0	3334
7	0	3334		78	0	3334		149	0	3334
8	0	3334		79	0	3334		150	0	3334
9	0	3334		80	0	3334		151	0	3334
10	0	3334		81	0	3334		152	0	3334
11	0	3334		82	0	3334		153	0	3334
12	0	3334		83	0	3334		154	0	3334
13	0	3334		84	0	3334		155	0	3334
14	0	3334		85	0	3334		156	0	3334
15	0	3334		86	0	3334		157	0	3334
16	0	3334		87	0	3334		158	0	3334
17	0	3334		88	0	3334		159	0	3334
18	0	3334		89	0	3334		160	0	3334
19	0	3334		90	0	3334		161	0	3334
20	0	3334		91	0	3334		162	0	3334
21	0	3334		92	0	3334		163	0	3334
22	0	3334		93	0	3334		164	0	3334
23	0	3334		94	0	3334		165	0	3334
24	0	3334		95	0	3334		166	0	3334
25	0	3334		96	0	3334		167	0	3334
26	0	3334		97	0	3334		168	0	3334
27	0	3334		98	0	3334		169	0	3334
28	0	3334		99	0	3334		170	0	3334
29	0	3334		100	0	3334		171	0	3334
30	0	3334		101	0	3334		172	0	3334
31	0	3334		102	0	3334		173	0	3334
32	0	3334		103	0	3334		174	0	3334
33	0	3334		104	1	3334		175	0	3334
34	0	3334		105	0	3334		176	0	3334
35	0	3334		106	0	3334		177	0	3334
36	0	3334		107	0	3334		178	0	3334
37	0	3334		108	0	3334		179	0	3334
38	0	3334		109	0	3334		180	0	3334
39	0	3334		110	0	3334		181	0	3334
40	0	3334		111	0	3334		182	0	3334

183	0	3334		SOLINIT 11	0	SOLINIT 82	0
184	0	3334		SOLINIT 12	0	SOLINIT 83	0
185	0	3334		SOLINIT 13	0	SOLINIT 84	0
186	0	3334		SOLINIT 14	0	SOLINIT 85	0
187	0	3334		SOLINIT 15	0	SOLINIT 86	0
188	0	3334		SOLINIT 16	0	SOLINIT 87	0
189	0	3334		SOLINIT 17	0	SOLINIT 88	0
190	0	3334		SOLINIT 18	0	SOLINIT 89	0
191	0	3334		SOLINIT 19	0	SOLINIT 90	0
192	0	3334		SOLINIT 20	0	SOLINIT 91	0
193	0	3334		SOLINIT 21	0	SOLINIT 92	0
194	0	3334		SOLINIT 22	0	SOLINIT 93	0
195	0	3334		SOLINIT 23	0	SOLINIT 94	0
196	0	3334		SOLINIT 24	0	SOLINIT 95	0
197	0	3334		SOLINIT 25	0	SOLINIT 96	0
198	0	3334		SOLINIT 26	0	SOLINIT 97	0
199	0	3334		SOLINIT 27	0	SOLINIT 98	0
200	0	3334		SOLINIT 28	0	SOLINIT 99	0
CEXCH	-1	0	D	SOLINIT 29	0	SOLINIT 100	0
DEGMIC	1	0	G	SOLINIT 30	0	SOLINIT 101	0
DEGMAC	1	0	G	SOLINIT 31	0	SOLINIT 102	0
SOLIMOB	-1	0	G	SOLINIT 32	0	SOLINIT 103	0
PAM	-1	0	D	SOLINIT 33	0	SOLINIT 104	0
CAM	-1	0	D	SOLINIT 34	0	SOLINIT 105	0
ADMI	-1	0	D	SOLINIT 35	0	SOLINIT 106	0
ADMA	-1	0	D	SOLINIT 36	0	SOLINIT 107	0
PAMT	-1	0	D	SOLINIT 37	0	SOLINIT 108	0
CAMT	-1	0	D	SOLINIT 38	0	SOLINIT 109	0
PCAA	-1	0	D	SOLINIT 39	0	SOLINIT 110	0
COLCMI	-1	0	D	SOLINIT 40	0	SOLINIT 111	0
COLCMA	-1	0	D	SOLINIT 41	0	SOLINIT 112	0
SFDMI	-1	0	D	SOLINIT 42	0	SOLINIT 113	0
SFDMA	-1	0	D	SOLINIT 43	0	SOLINIT 114	0
ZAM	-1	0	D	SOLINIT 44	0	SOLINIT 115	0
SFSDMA	-1	0	D	SOLINIT 45	0	SOLINIT 116	0
SFSDMI	-1	0	D	SOLINIT 46	0	SOLINIT 117	0
GAMMA	-1	0	GP	SOLINIT 47	0	SOLINIT 118	0
Z	-1	0	GP	SOLINIT 48	0	SOLINIT 119	0
XMPOR	-1	0	GP	SOLINIT 49	0	SOLINIT 120	0
ALPHA	-1	0	GP	SOLINIT 50	0	SOLINIT 121	0
KSM	-1	0	GP	SOLINIT 51	0	SOLINIT 122	0
ZN	-1	0	GP	SOLINIT 52	0	SOLINIT 123	0
ASCALE	-1	0	GP	SOLINIT 53	0	SOLINIT 124	0
TRAP_AIR	-1	0		SOLINIT 54	0	SOLINIT 125	0
GP				SOLINIT 55	0	SOLINIT 126	0
TSEXT	-1	0	GP	SOLINIT 56	0	SOLINIT 127	0
KSATMIN	-1	0	GP	SOLINIT 57	0	SOLINIT 128	0
TPORV	-1	0	GP	SOLINIT 58	0	SOLINIT 129	0
ADMI_KIN	-1	0		SOLINIT 59	0	SOLINIT 130	0
D				SOLINIT 60	0	SOLINIT 131	0
*****				SOLINIT 61	0	SOLINIT 132	0
*****				SOLINIT 62	0	SOLINIT 133	0
BOUNDARY AND INITIAL				SOLINIT 63	0	SOLINIT 134	0
CONDITIONS				SOLINIT 64	0	SOLINIT 135	0
AREA	0			SOLINIT 65	0	SOLINIT 136	0
BGRAD	0			SOLINIT 66	0	SOLINIT 137	0
BOTEN	1010			SOLINIT 67	0	SOLINIT 138	0
CONCIN	0			SOLINIT 68	0	SOLINIT 139	0
CONSTSTA	0			SOLINIT 69	0	SOLINIT 140	0
GWFLUX	0			SOLINIT 70	0	SOLINIT 141	0
IASCALE	0			SOLINIT 71	0	SOLINIT 142	0
SOLINIT 1	0			SOLINIT 72	0	SOLINIT 143	0
SOLINIT 2	0			SOLINIT 73	0	SOLINIT 144	0
SOLINIT 3	0			SOLINIT 74	0	SOLINIT 145	0
SOLINIT 4	0			SOLINIT 75	0	SOLINIT 146	0
SOLINIT 5	0			SOLINIT 76	0	SOLINIT 147	0
SOLINIT 6	0			SOLINIT 77	0	SOLINIT 148	0
SOLINIT 7	0			SOLINIT 78	0	SOLINIT 149	0
SOLINIT 8	0			SOLINIT 79	0	SOLINIT 150	0
SOLINIT 9	0			SOLINIT 80	0	SOLINIT 151	0
SOLINIT 10	0			SOLINIT 81	0	SOLINIT 152	0

SOLINIT 153	0	TEMPINI 24	10	TEMPINI 95	10
SOLINIT 154	0	TEMPINI 25	10	TEMPINI 96	10
SOLINIT 155	0	TEMPINI 26	10	TEMPINI 97	10
SOLINIT 156	0	TEMPINI 27	10	TEMPINI 98	10
SOLINIT 157	0	TEMPINI 28	10	TEMPINI 99	10
SOLINIT 158	0	TEMPINI 29	10	TEMPINI 100	10
SOLINIT 159	0	TEMPINI 30	10	TEMPINI 101	10
SOLINIT 160	0	TEMPINI 31	10	TEMPINI 102	10
SOLINIT 161	0	TEMPINI 32	10	TEMPINI 103	10
SOLINIT 162	0	TEMPINI 33	10	TEMPINI 104	10
SOLINIT 163	0	TEMPINI 34	10	TEMPINI 105	10
SOLINIT 164	0	TEMPINI 35	10	TEMPINI 106	10
SOLINIT 165	0	TEMPINI 36	10	TEMPINI 107	10
SOLINIT 166	0	TEMPINI 37	10	TEMPINI 108	10
SOLINIT 167	0	TEMPINI 38	10	TEMPINI 109	10
SOLINIT 168	0	TEMPINI 39	10	TEMPINI 110	10
SOLINIT 169	0	TEMPINI 40	10	TEMPINI 111	10
SOLINIT 170	0	TEMPINI 41	10	TEMPINI 112	10
SOLINIT 171	0	TEMPINI 42	10	TEMPINI 113	10
SOLINIT 172	0	TEMPINI 43	10	TEMPINI 114	10
SOLINIT 173	0	TEMPINI 44	10	TEMPINI 115	10
SOLINIT 174	0	TEMPINI 45	10	TEMPINI 116	10
SOLINIT 175	0	TEMPINI 46	10	TEMPINI 117	10
SOLINIT 176	0	TEMPINI 47	10	TEMPINI 118	10
SOLINIT 177	0	TEMPINI 48	10	TEMPINI 119	10
SOLINIT 178	0	TEMPINI 49	10	TEMPINI 120	10
SOLINIT 179	0	TEMPINI 50	10	TEMPINI 121	10
SOLINIT 180	0	TEMPINI 51	10	TEMPINI 122	10
SOLINIT 181	0	TEMPINI 52	10	TEMPINI 123	10
SOLINIT 182	0	TEMPINI 53	10	TEMPINI 124	10
SOLINIT 183	0	TEMPINI 54	10	TEMPINI 125	10
SOLINIT 184	0	TEMPINI 55	10	TEMPINI 126	10
SOLINIT 185	0	TEMPINI 56	10	TEMPINI 127	10
SOLINIT 186	0	TEMPINI 57	10	TEMPINI 128	10
SOLINIT 187	0	TEMPINI 58	10	TEMPINI 129	10
SOLINIT 188	0	TEMPINI 59	10	TEMPINI 130	10
SOLINIT 189	0	TEMPINI 60	10	TEMPINI 131	10
SOLINIT 190	0	TEMPINI 61	10	TEMPINI 132	10
SOLINIT 191	0	TEMPINI 62	10	TEMPINI 133	10
SOLINIT 192	0	TEMPINI 63	10	TEMPINI 134	10
SOLINIT 193	0	TEMPINI 64	10	TEMPINI 135	10
SOLINIT 194	0	TEMPINI 65	10	TEMPINI 136	10
SOLINIT 195	0	TEMPINI 66	10	TEMPINI 137	10
SOLINIT 196	0	TEMPINI 67	10	TEMPINI 138	10
SOLINIT 197	0	TEMPINI 68	10	TEMPINI 139	10
SOLINIT 198	0	TEMPINI 69	10	TEMPINI 140	10
SOLINIT 199	0	TEMPINI 70	10	TEMPINI 141	10
SOLINIT 200	0	TEMPINI 71	10	TEMPINI 142	10
TEMPINI 1	10	TEMPINI 72	10	TEMPINI 143	10
TEMPINI 2	10	TEMPINI 73	10	TEMPINI 144	10
TEMPINI 3	10	TEMPINI 74	10	TEMPINI 145	10
TEMPINI 4	10	TEMPINI 75	10	TEMPINI 146	10
TEMPINI 5	10	TEMPINI 76	10	TEMPINI 147	10
TEMPINI 6	10	TEMPINI 77	10	TEMPINI 148	10
TEMPINI 7	10	TEMPINI 78	10	TEMPINI 149	10
TEMPINI 8	10	TEMPINI 79	10	TEMPINI 150	10
TEMPINI 9	10	TEMPINI 80	10	TEMPINI 151	10
TEMPINI 10	10	TEMPINI 81	10	TEMPINI 152	10
TEMPINI 11	10	TEMPINI 82	10	TEMPINI 153	10
TEMPINI 12	10	TEMPINI 83	10	TEMPINI 154	10
TEMPINI 13	10	TEMPINI 84	10	TEMPINI 155	10
TEMPINI 14	10	TEMPINI 85	10	TEMPINI 156	10
TEMPINI 15	10	TEMPINI 86	10	TEMPINI 157	10
TEMPINI 16	10	TEMPINI 87	10	TEMPINI 158	10
TEMPINI 17	10	TEMPINI 88	10	TEMPINI 159	10
TEMPINI 18	10	TEMPINI 89	10	TEMPINI 160	10
TEMPINI 19	10	TEMPINI 90	10	TEMPINI 161	10
TEMPINI 20	10	TEMPINI 91	10	TEMPINI 162	10
TEMPINI 21	10	TEMPINI 92	10	TEMPINI 163	10
TEMPINI 22	10	TEMPINI 93	10	TEMPINI 164	10
TEMPINI 23	10	TEMPINI 94	10	TEMPINI 165	10

TEMPINI 166	10		THETAINI	37	0	THETAINI	108	0
TEMPINI 167	10		THETAINI	38	0	THETAINI	109	0
TEMPINI 168	10		THETAINI	39	0	THETAINI	110	0
TEMPINI 169	10		THETAINI	40	0	THETAINI	111	0
TEMPINI 170	10		THETAINI	41	0	THETAINI	112	0
TEMPINI 171	10		THETAINI	42	0	THETAINI	113	0
TEMPINI 172	10		THETAINI	43	0	THETAINI	114	0
TEMPINI 173	10		THETAINI	44	0	THETAINI	115	0
TEMPINI 174	10		THETAINI	45	0	THETAINI	116	0
TEMPINI 175	10		THETAINI	46	0	THETAINI	117	0
TEMPINI 176	10		THETAINI	47	0	THETAINI	118	0
TEMPINI 177	10		THETAINI	48	0	THETAINI	119	0
TEMPINI 178	10		THETAINI	49	0	THETAINI	120	0
TEMPINI 179	10		THETAINI	50	0	THETAINI	121	0
TEMPINI 180	10		THETAINI	51	0	THETAINI	122	0
TEMPINI 181	10		THETAINI	52	0	THETAINI	123	0
TEMPINI 182	10		THETAINI	53	0	THETAINI	124	0
TEMPINI 183	10		THETAINI	54	0	THETAINI	125	0
TEMPINI 184	10		THETAINI	55	0	THETAINI	126	0
TEMPINI 185	10		THETAINI	56	0	THETAINI	127	0
TEMPINI 186	10		THETAINI	57	0	THETAINI	128	0
TEMPINI 187	10		THETAINI	58	0	THETAINI	129	0
TEMPINI 188	10		THETAINI	59	0	THETAINI	130	0
TEMPINI 189	10		THETAINI	60	0	THETAINI	131	0
TEMPINI 190	10		THETAINI	61	0	THETAINI	132	0
TEMPINI 191	10		THETAINI	62	0	THETAINI	133	0
TEMPINI 192	10		THETAINI	63	0	THETAINI	134	0
TEMPINI 193	10		THETAINI	64	0	THETAINI	135	0
TEMPINI 194	10		THETAINI	65	0	THETAINI	136	0
TEMPINI 195	10		THETAINI	66	0	THETAINI	137	0
TEMPINI 196	10		THETAINI	67	0	THETAINI	138	0
TEMPINI 197	10		THETAINI	68	0	THETAINI	139	0
TEMPINI 198	10		THETAINI	69	0	THETAINI	140	0
TEMPINI 199	10		THETAINI	70	0	THETAINI	141	0
TEMPINI 200	10		THETAINI	71	0	THETAINI	142	0
THETAINI	1	0	THETAINI	72	0	THETAINI	143	0
THETAINI	2	0	THETAINI	73	0	THETAINI	144	0
THETAINI	3	0	THETAINI	74	0	THETAINI	145	0
THETAINI	4	0	THETAINI	75	0	THETAINI	146	0
THETAINI	5	0	THETAINI	76	0	THETAINI	147	0
THETAINI	6	0	THETAINI	77	0	THETAINI	148	0
THETAINI	7	0	THETAINI	78	0	THETAINI	149	0
THETAINI	8	0	THETAINI	79	0	THETAINI	150	0
THETAINI	9	0	THETAINI	80	0	THETAINI	151	0
THETAINI	10	0	THETAINI	81	0	THETAINI	152	0
THETAINI	11	0	THETAINI	82	0	THETAINI	153	0
THETAINI	12	0	THETAINI	83	0	THETAINI	154	0
THETAINI	13	0	THETAINI	84	0	THETAINI	155	0
THETAINI	14	0	THETAINI	85	0	THETAINI	156	0
THETAINI	15	0	THETAINI	86	0	THETAINI	157	0
THETAINI	16	0	THETAINI	87	0	THETAINI	158	0
THETAINI	17	0	THETAINI	88	0	THETAINI	159	0
THETAINI	18	0	THETAINI	89	0	THETAINI	160	0
THETAINI	19	0	THETAINI	90	0	THETAINI	161	0
THETAINI	20	0	THETAINI	91	0	THETAINI	162	0
THETAINI	21	0	THETAINI	92	0	THETAINI	163	0
THETAINI	22	0	THETAINI	93	0	THETAINI	164	0
THETAINI	23	0	THETAINI	94	0	THETAINI	165	0
THETAINI	24	0	THETAINI	95	0	THETAINI	166	0
THETAINI	25	0	THETAINI	96	0	THETAINI	167	0
THETAINI	26	0	THETAINI	97	0	THETAINI	168	0
THETAINI	27	0	THETAINI	98	0	THETAINI	169	0
THETAINI	28	0	THETAINI	99	0	THETAINI	170	0
THETAINI	29	0	THETAINI	100	0	THETAINI	171	0
THETAINI	30	0	THETAINI	101	0	THETAINI	172	0
THETAINI	31	0	THETAINI	102	0	THETAINI	173	0
THETAINI	32	0	THETAINI	103	0	THETAINI	174	0
THETAINI	33	0	THETAINI	104	0	THETAINI	175	0
THETAINI	34	0	THETAINI	105	0	THETAINI	176	0
THETAINI	35	0	THETAINI	106	0	THETAINI	177	0
THETAINI	36	0	THETAINI	107	0	THETAINI	178	0

THETAINI	179	0	THETAINI	195	0	Scenario : Chateaudun Groundwater
THETAINI	180	0	THETAINI	196	0	
THETAINI	181	0	THETAINI	197	0	Simulation from 19010101 to 19270101, application every year (6 year warm-up)
THETAINI	182	0	THETAINI	198	0	
THETAINI	183	0	THETAINI	199	0	
THETAINI	184	0	THETAINI	200	0	
THETAINI	185	0	*****			
THETAINI	186	0	INFORMATION			
THETAINI	187	0	MACRO in FOCUS Version			Crop : Cereals, spring, irrigated
THETAINI	188	0	5.5.4			
THETAINI	189	0	Output File =			Number of applications : 1
THETAINI	190	0	C:\SWASH\macro\Multi_GW\M3			
THETAINI	191	0	_3b_ID135\macro135.bin			
THETAINI	192	0	Type of compound =			Application 1 : 33.48 g/ha
THETAINI	193	0	metabolite			of M3_3b on day 90
THETAINI	194	0	Compound : M3_3b			