

Implementation of kinetic sorption into PRZM

WINPRZM version 4.52 December 2010

FOCUS PRZM Shell v 5.3.2 (Dec. 2010)

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1. Summary

This report describes the implementation of kinetic sorption into PRZM, the **PESTICIDE ROOT ZONE MODEL**, which is used in European registration to calculate the leaching potential of pesticides (FOCUS 2000, 2009).

FOCUS (2009) describes three methods to simulate kinetic sorption in soil. One of these methods is the STRECK-approach which was recently added to the leaching model PRZM (WINPRZM.exe). The same method has been now also implemented in PELMO. The implemented STRECK-approach is mathematically identical to the PEARL-approach. The relevant kinetic sorption parameters can be directly transformed into each other as described by FOCUS (2009).

In contrast to the PEARL methodology of kinetic sorption, degradation processes at non-equilibrium sites were also considered in the new PRZM routines. These additional processes follow 1st order kinetics with a special rate constant, but same moisture, depth and temperature dependency as in the traditional equilibrium domain. As default for standard FOCUS calculations the degradation at non-equilibrium sites will be switched off.

All input and output routines in PRZM were adapted to process the new parameters. A couple of further subroutines modules in PRZM were extended with additional code to perform the new calculations.

The FOCUS PRZM shell (fgrat.exe) was also extended to cover the new parameters. In order to keep the standard FOCUS user input simple the FOCUS PRZM shell (fgrat.exe) requires the standard PEARL kinetic sorption parameter (fne and kdes) as model input. These PEARL values will be automatically transfer into Streck-parameter as needed as input for WINPRZM.exe.

Non-equilibrium sorption was implemented successfully in PRZM as demonstrated by several test runs (Reinken et al, 2008). Simulations with example pesticide FOCUS D and annual applications in winter cereals showed that the new kinetic sorption module usually leads to a reduction of annual concentrations in the percolate. However, in some cases also higher concentrations were simulated.

2. Introduction

FOCUS PRZM is one of four leaching computer models officially used within the EU pesticide registration (FOCUS, 2000, 2009). The previous version of PRZM assumes that sorption in soil can be totally described by equilibrium conditions using the Freundlich equation. However, long-term sorption experiments showed that these processes do quite often not follow this theory.

Therefore, in PEARL and MACRO, two other FOCUS-leaching models, additional routines have been implemented that are able to describe this non-equilibrium or kinetic sorption process. The realisation in these models is based on a two-region-model assuming that the equilibrium sorption of a substance can be separated from non-equilibrium type sorption by assuming two different types of sorption sites in soil.

Generally, additional parameters have to be defined to describe the sorption isotherm at the non-equilibrium sites, and parameters that describe the adsorption and desorption rates between the site and possibly and additional degradation rate at the non-equilibrium sites.

In the year 2004 a new FOCUS-groundwater scenario group was established. A major task of this group was the harmonisation of the current FOCUS-models. This group classified non-equilibrium sorption in soil as one possibility of improved modelling with refined parameterisation at higher tier level. Therefore, this process was also implemented in FOCUS PRZM. To achieve maximum harmonisation between the FOCUS models principally the same algorithm was also used to implement kinetic sorption in the new FOCUS PELMO.

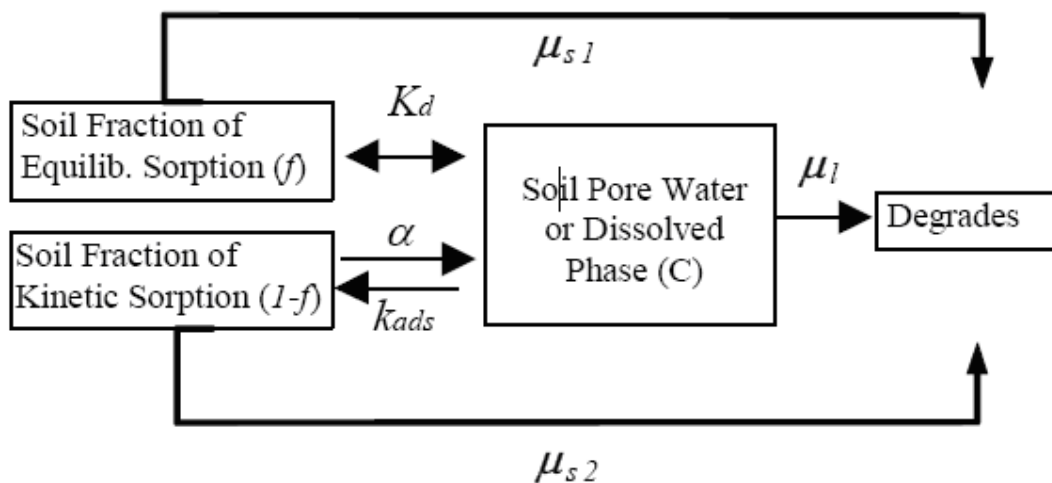
This implementation was done based on the version of PRZM that has been modified according to the suggestions of the FOCUS GW scenario group (e.g. dispersion length, no-runoff-option in first tier, depth-dependent compartment sizes) (see FOCUS, 2009). However, the change in the concentration below which the K_{oc} was represented by a linear isotherm (rather than the Freundlich isotherm) had not yet been implemented when the examples presented in this report had been run, so the results will deviate slightly from results using the model versions released with the FOCUS (2009) scenarios.

The implementation of kinetic sorption into the FOCUS PRZM model has been presented at the SETAC Warsaw conference (Reinken et al. 2008).

3. Methodology

3.1. Introduction

A popular model for dealing with sorption kinetics is the two-site/two-region model (Van Genuchten and Wagenet, 1989; Streck et al., 1995), which separates the soil sorption sites in equilibrium and non-equilibrium sites. The basis for this simplification is that sorption sites reacting at time scales ranging from minutes to a day or two are close enough to equilibrium when assessing pesticide leaching to ground water. The two-site sorption and degradation kinetics model assumes two soil fractions (sites) coexisting in a soil representative elementary volume, with one adsorbing chemicals instantaneously and the other time-dependently (FOCUS, 2009)



FOCUS (2009) describe three methods to simulate kinetic sorption in soil

- The PEARL-approach
- The Streck –approach (implemented in PRZM)
- The MACRO-approach

The models are different with respect to the definition of the total concentration sorbed. However, as shown by FOCUS (2009) the models are mathematically identical, because they describe the same process and the parameters derived using one of the models can be translated into parameters of the other. In this project the STRECK-model was implemented in the simulation model PRZM (WINPRZM.exe). In order to keep the standard FOCUS user input as simple as possible the FOCUS PRZM shell (fgrat.exe) was adapted to require the standard PEARL kinetic sorption parameter (fne and kdes) as model input. These PEARL

values will be automatically transfer into Streck-parameter as needed as input for WINPRZM.exe.

Degradation processes at non-equilibrium sites follow 1st order kinetics with a special rate constant, but same moisture, depth and temperature dependency as at the traditional equilibrium sites. It is, of course, possible to run simulations without this additional degradation process in the non-equilibrium domain.

The so far mentioned extensions mentioned so far refer to the key procedure SLPEST. Within this routine it is calculated, how the concentrations of parent and metabolites change within a time step (usually 1 day). Additional modifications were made in following subroutines:

READIN:	Input of the new parameters,
ECHO:	Output of the new parameters,
OUTPST:	Modification of tables writing the file chem.plm which contains the daily concentration at the non-equilibrium sites and the related fluxes
OUTTSR:	time dependent output of the movement of chemicals between equilibrium and non-equilibrium sites (written into plot.plm),
MASBAL:	checking the mass balance each day
PESTAP:	organising pesticide application to the crop or the soil surface,
INITL:	initialising of all variables
PRZM:	updating all storage variables at the end of the day

3.2. *New Variables in PRZM*

To consider the non-kinetic sorption new parameters were defined in PRZM. An overview about these new variables is given in

Table 1.

Table 1: New Variables defined in PRZM to simulate kinetic sorption

Variable	Unit	FORTTRAN Dimension	Occurrence	Meaning
prx1	-	-	SLPST3	parameter R_1 in eq. 15
prz	-	-	SLPST3	parameter R in eq. 16
pomegax	day ⁻¹	-	SLPST3	parameter ω in eq. 13
pgammax	day ⁻¹	-	SLPST3	parameter γ in eq. 14
pmux	day ⁻¹	-	SLPST3	parameter μ_e in eq. 12
pbx	day ⁻¹	-	SLPST3	parameter b in eq. 10
pcx	day ⁻²	-	SLPST3	parameter c in eq. 11
plambdax1	day ⁻¹	-	SLPST3	parameter λ_1 in eq. 8
plambdax2	day ⁻¹	-	SLPST3	parameter λ_2 in eq. 8
p1c	day ⁻¹	-	SLPST3	parameter p_{1c} in eq. 4a
p2c	µg/g	-	SLPST3	parameter p_{2c} in eq. 4b
p1s	-	-	SLPST3	parameter p_{1c} in eq. 6a
p2s	day ⁻¹	-	SLPST3	parameter p_{2c} in eq. 6b
s2	µg/g	(MET,COMP)	SLPST3, MAIN MASBAL, OUTPST OUTTSR	concentration in the non-equilibrium domain
kdes	day ⁻¹	(MET,COMP)	SLPST3	1 st order desorption rate in the non-equilibrium domain
dsrate*	day ⁻¹	(MET,COMP)	SLPST3	1 st order degradation rate for sorbed pesticide fraction in the equilibrium domain
dwrates*	day ⁻¹	(MET,COMP)	SLPST3	1 st order degradation rate for dissolved pesticide fraction in the equilibrium domain
dks2	day ⁻¹	(MET,COMP)	SLPST3	1 st order degradation rate in the non-equilibrium domain
pcncx	µg/g	(MET,COMP)	SLPST3, PRZM	Temporary storage variable
feq	-	(MET,COMP)	SLPST3, ECHO, EROSN, INITL	soil fraction of equilibrium domain (Streck-Model)
s2old	µg/g	(MET,COMP)	SLPST3, INITL, OUTPST	concentration in the non-equilibrium domain of the previous day

MET: number of metabolites, COMP: number of soil compartments, TRA: number of transformation routes

*: set to '0' because this process is simulated in the traditional code in PELMO

As already mentioned the new model for dealing with sorption kinetics was implemented in the subroutine SLPST. This subroutine sets up the coefficient matrix for the solution of the soil pesticide transport equation. It then calls an equation solver for the tridiagonal matrix and sets up pesticide flux terms using the new concentrations. The distribution between equilibrium and non-equilibrium sites and (possibly) the degradation in the non-equilibrium domain was implemented separately and before the traditional pesticide fate processes are handled in SLPST3. Consequently, the variables *dsrate* and *dwrates* (see

Table 1) in the new module were set to “0” because these processes are covered in the traditional part of the subroutine.

3.3. Fundamental algorithms of the Streck approach

The new code was programmed considering the following differential equation system (Chen and Wagenet, 1997):

1. Differential Equations

The differential equations and initial conditions are

$$\frac{d}{dt}[\theta C + \rho(S_1 + S_2)] = -\mu_1 \theta C - (\mu_{S_1} \rho S_1 + \mu_{S_2} \rho S_2) \quad \text{Equations 1}$$

$$\frac{dS_1}{dt} = f K_d \frac{dC}{dt} \quad \text{Equations 2}$$

$$\frac{dS_2}{dt} = \alpha [(1-f) K_d C - S_2] - \mu_{S_2} S_2 \quad \text{Equations 3}$$

With the initial conditions

$$C(0) = C_0$$

$$S_1(0) = f K_d C_0$$

$$S_2(0) = S_0$$

C: Concentration in the dissolved phase; $\mu\text{g/L}$.

S_1 Concentration in the instantaneous (equilibrium) adsorbed phase, $\mu\text{g/g}$.

S_2 : Concentration in the kinetic adsorbed phase, $\mu\text{g/g}$.

f Soil fraction of the instantaneous adsorbed phase, dimensionless.

K_d Partition coefficient when adsorption/desorption equilibrium achieved, mL/g .

α First-order desorption rate constant in the kinetic adsorbed phase, day^{-1} ;

μ_{S_1} : Degradation rate constant on the equilibrium adsorption site, day^{-1} .

μ_{S_2} : Degradation rate constant on the kinetics adsorption site, day^{-1}

μ_1 Degradation rate constant in the soil pore water or liquid phase, day^{-1}

θ : Soil moisture content, $\text{cm}^3\text{P}/\text{cm}^3$.

ρ : Soil bulk density, g/cm³.

t : Time, day.

The analytical solutions for these equations are as follows:

Equation 4 a

$$P_{1c} = (\alpha + \mu_{S_2} + \lambda_1) \exp(\lambda_1 t) - (\alpha + \mu_{S_2} + \lambda_2) \exp(\lambda_2 t)$$

Equation 4 b

$$P_{2c} = \frac{\omega S_0}{(\lambda_1 - \lambda_2)} [\exp(\lambda_1 t) - \exp(\lambda_2 t)]$$

Equation 4 c:

$$C = \frac{C_0}{(\lambda_1 - \lambda_2)} P_{1c} + P_{2c}$$

Equation 5

$$S_1 = fK_d C$$

Equation 6 a

$$P_{1s} = [\exp(\lambda_1 t) - \exp(\lambda_2 t)]$$

Equation 6 b

$$P_{2s} = (\alpha + \mu_{s_2} + \lambda_1) \exp(\lambda_2 t) - (\alpha + \mu_{s_2} + \lambda_2) \exp(\lambda_1 t)$$

Equation 6 c

$$s_2 = \frac{\alpha(1-f)K_d C_0}{(\lambda_1 - \lambda_2)} P_{1s} + \frac{S_0}{(\lambda_1 - \lambda_2)} P_{2s}$$

Equation 7

$$C_t = (\theta + \rho f K_d) C + \rho S_2$$

Equation 7 is for real concentration both in the adsorbed phase and in the soil pore water.
The dummy parameters in Equations 4 to 6 are defined below.

Equation 8

$$\lambda_1 = \frac{1}{2} \left(-b + \sqrt{b^2 - 4c} \right)$$

Equation 9

$$\lambda_2 = \frac{1}{2} \left(-b - \sqrt{b^2 - 4c} \right)$$

Equation 10

$$b = \gamma + \mu_{s_2} + \mu_e$$

Equation 11

$$C = \mu_e (\alpha + \mu_{s_2}) + \mu_{s_2} (\gamma - \alpha)$$

Equation 12

$$\mu_e = \frac{\mu_1 + (R_1 - 1)\mu_{s_1}}{R_1}$$

Equation 13

$$\omega = \frac{\alpha\rho}{R_1\theta}$$

Equation 14

$$\gamma = \frac{\alpha R}{R_1}$$

Equation 15

$$R_1 = 1 + \frac{f\rho K_d}{\theta}$$

Equation 16

$$R = 1 + \frac{\rho K_d}{\theta}$$

This analytical solution was implemented into PRZM in its subroutine SLPST. The respective source code is listed in Appendix A.

3.4. Relationship between Streck and PEARL parameters

As already mentioned other realisations of non-equilibrium sorption with slightly different parameter definitions but mathematically identical results have been developed.

PEARL describes non-equilibrium sorption using the following equation:

Equation 17

$$c^* = \theta \cdot c_L + \rho(S_{EQ,PEARL} + S_{NE,PEARL})$$

Equation 18

$$S_{EQ,PEARL} = K_{F,EQ} \cdot c_{L,R} \left(\frac{c_L}{c_{L,R}} \right)^N$$

Equation 19

$$\frac{dS_{NE,PEARL}}{dt} = k_{d,PEARL} \left(K_{F,NE} c_{L,R} \left(\frac{c_L}{c_{L,R}} \right)^N - S_{NE,PEARL} \right)$$

Equation 20

$$K_{F,NE} = f_{NE,PEARL} \cdot K_{F,EQ}$$

Equation 21

$$R_t = -k_t \left(\theta \cdot c_L + \rho S_{EQ,PEARL} \right)$$

c^*	total concentration (mg/L)
c_L	concentration in the liquid phase (mg/L)
$c_{L,R}$	reference concentration in the liquid phase (mg/L)
θ	volume fraction of water (-)
$S_{EQ,PEARL}$	content sorbed at equilibrium sites (mg/kg)
$S_{NE,PEARL}$	content sorbed at non-equilibrium sites (mg/kg)
$K_{F,EQ}$	equilibrium Freundlich sorption coefficient (L/kg)
$K_{F,NE}$	non-equilibrium Freundlich sorption coefficient (L/kg)
N	Freundlich exponent (-)
$k_{d,PEARL}$	desorption rate coefficient (d ⁻¹)
$f_{NE,PEARL}$	factor for describing the ratio between the equilibrium and non-equilibrium Freundlich coefficients in PEARL(-)
R_t	rate of degradation in soil (mgL ⁻¹ d ⁻¹)

The main difference compared to the Streck model is the definition of f_{NE} which is the ratio of non-equilibrium sites to equilibrium sites here, not to the sum of both. This is also influencing the sorption constant $K_{f,eq}$.

The total Freundlich sorption coefficient $K_{F,tot}$ is defined in PEARL as follows

Equation 21

$$K_{f,tot} = K_{F,eq} + K_{F,neq} = (1 + f_{neq,PEARL}) * K_{F,eq}$$

However, the parameter both models are using can be easily transferred based on the following equations:

Equation 21

$$k_{d,PEARL} = \frac{\alpha_{STRECK}}{1 - f_{EQ,STRECK}}$$

Equation 21

$$k_{NE,PEARL} = \frac{1 - f_{EQ,STRECK}}{f_{EQ,STRECK}}$$

In the new shell around PRZM these transformation factors have been implemented and it is possible to use either the PEARL or the Streck parameters in the model (more information on how this can be done is given in the next chapter).

4. Working with the new model

The FOCUS PRZM shell was modified to process the additional parameter necessary to consider kinetic sorption. In addition the old PRZM option using non-kinetic “aged” sorption factors is available to be consistent with previous versions of PRZM.

Enter PRZM Chemical Parameters

Chemical 1 | Chemical 2 | Chemical 3

Chemical Name: FOCUS dummy D

Molecular Weight: 300.000

Plant Uptake Factor: 0.500

Partition Coefficient Method: Koc

Partition Value: 60.00

☒ Use Non-linear Adsorption?

Freundlich Exponent (1/n): 0.90

☒ Simulate Aged Adsorption?

☒ Kinetic

f_{ne} (PEARL Factor, K_{f,ne}/K_{f,eq}): 0.3000

KDES (desorption rate): 0.0100

☐ Non-Kinetic

Enter Non-Kinetic Parameters

☒ Simulate Volatilization?

Vapor Pressure (mPa): 0.1000E+00

Solubility (mg/l): 0.9000E+02

Degradation (days) - Phase 1: 20.00 Phase 2: 0.00

☐ Use Bi-Phase Degradation?

Days After Initial Appl. Bi-Phase Half-life Begins: 0

☒ Use Temperature and Moisture Corrected Half-life?

Q10 Factor: 2.58

Q10 Temp. (C): 20.00

Moisture Exponent: 0.700

Moisture Content (%): 100.000

☐ Abs.

☒ Rel. (FC)

☐ Foliar Applications?

Foliar Half-life (days): 0.00

Foliar Washoff Coefficient: 0.00

☐ Modify Degradation Factors? Degradation Factors

Select Chemical from User Database

Maintain User Database

Save Chemical to User Database

OK, and Save to Database | OK, and Don't Save to Database | Cancel | Help

Figure 1: Extended Input sheet to consider kinetic sorption in PRZM

In the field “Partition Value - Koc” (see the yellow arrow in Figure 1) always the (normal) equilibrium sorption Koc value related to the whole soil has to be entered (consistent with previous versions of PRZM).

In the field “Degradation” (see the red arrow in Figure 1) the adjusted degradation DT50 of the equilibrium phase (which is always shorter then the degradation DT50 of the total bulk soil) has to be entered (consistent with the PEARL). This is applicable to both DT50 values in

the case bi-phasic degradation is simulated. The adjusted degradation DT50 of the equilibrium phase may be estimated based on the relation given in Equation 22.

Equation 22

$$DT50_{eq} = \frac{DT50_{tot}}{1 + f_{ne}}$$

Kinetic sorption parameter are saved in the PRZM Master Project File “master.fpj” (see the example in Table 2). Consistent with previous versions of PRZM the Master Project File summarised all relevant information to re-generate a simulation a run.

Project File Created: 2009- 9-16, 16:11:37									
FOCUS PRZM Groundwater Tool v3.5.2(Oct., 2008)									
Parent Compound: FOCUS dummy D					PRZM4.52				
					Crop: Cereals (Winter)				
CROP	:	7	1						
SCENARIO	:	010000000							
ROTATION	:	1							
RELATIONSHIP	:	1							
CHEMICAL	:	1	0010111						
Chemical Name: FOCUS dummy D									
Molecular Wgt:		300.000							
Plant Upt Fct:		0.500							
Part Cff Mth :		1							
Part Cff Fct :		60.000							
Freund Exp :		0.900							
Vapor Pres :		0.1000E+00							
Solubility :		0.9000E+02							
Degr. PH1 :		20.000							
Degr. PH2 :		0.000							
% Degr. PH1 :		0.000	0.000	0.000					
% Degr. PH2 :		0.000	0.000	0.000					
Bi-Phase :		0							
Q10 FAC :		2.580							
Q10 Temp :		20.000							
Moisture Exp :		0.700							
Moisture Cnt :		100.000							
Moisture Type:		2	2	2	1				
Foliar 1/2 :		0.000							
Foliar Wash. :		0.000							
APPLICATION	:	122							
Days Rel :		-1							
Day :		-1							
Month :		0							
CAM :		1							
Depi :		4.000							
Rate :		1.0000							
Drift :		0.000							
Eff :		100.000							
AGING FACTORS :									
Chemical 1 :		0	0	0	0	0	1.0000		
1.0000 1.0000	1.0000	1.0000	0.3000	0.0100					
Chemical 2 :		0	0	0	0	0	1.0000		
1.0000 1.0000	1.0000	1.0000	0.3000	0.0000					
Chemical 3 :		0	0	0	0	0	1.0000		
1.0000 1.0000	1.0000	1.0000	0.3000	0.0000					

Table 2: New version of „master.fpj“ (kinetic sorption parameter are marked in blue)

5. Results of example simulations

5.1. *Example simulations FOCUS Dummy D*

A simulation series has been conducted with three variations of (FOCUS) Pesticide D and an annual application in winter cereals (1 kg/ha one day before crop emergence, CAM = 1, Q10 = 2.58, no runoff). Following variations were considered with respect to kinetic sorption:

- A. Without kinetic sorption
- B. Default kinetic sorption (PEARL: $f_{ne} = 0.3$, $k_{des} = 0.01$ 1/d
- C. Extreme kinetic sorption (PEARL: $f_{ne} = 0.5$, $k_{des} = 0.5$ 1/d

The effective degradation DT50 of the equilibrium phase (which is always shorter than the DT50 of the total bulk soil) was calculated based on the standard soil DT50 (20 days for FOCUS Pesticide D) and the applicable kinetic sorption parameter. Following DT50 values were employed as model input values based on Equation 22:

- A. 20 days
- B. 15.4 days
- C. 13.3 days

The result of this comparison is shown in

Table 3 and Figure 2. Full details of the simulation runs for parameter Set A, B and C are given in the Appendix B of this report.

Table 3: Annual concentrations in the percolate (80th percentile) for FOCUS Substance D applied annually to winter cereals

Variation	No kinetic sorption			Default kinetic sorption			Extreme kinetic sorption		
Location	Pest flux (g/ha)	Percolate (L/m ²)	C (µg/L)	Pest flux (g/ha)	Percolate (L/m ²)	C (µg/L)	Pest flux (g/ha)	Percolate (L/m ²)	C (µg/L)
Châteaudun	0.092	142.3	0.065	0.023	142.3	0.016	0.003	142.3	0.002
Hamburg	9.016	266.6	3.382	3.916	266.6	1.469	1.261	266.6	0.473
Jokioinen	2.436	213.9	1.139	0.677	213.9	0.317	0.177	213.9	0.083
Kremsmünster	2.558	297.1	0.861	0.901	297.1	0.303	0.210	297.1	0.071
Okehampton	16.136	433.3	3.724	6.703	433.3	1.547	3.270	433.3	0.755
Piacenza	3.327	319.0	1.043	2.380	319.0	0.746	0.674	319.0	0.211
Porto	16.899	547.6	3.086	9.008	547.6	1.645	3.972	547.6	0.725
Sevilla	0.051	120.9	0.043	0.040	120.9	0.033	0.005	120.9	0.004
Thiva	0.019	97.9	0.020	0.011	97.9	0.012	0.001	97.9	0.001

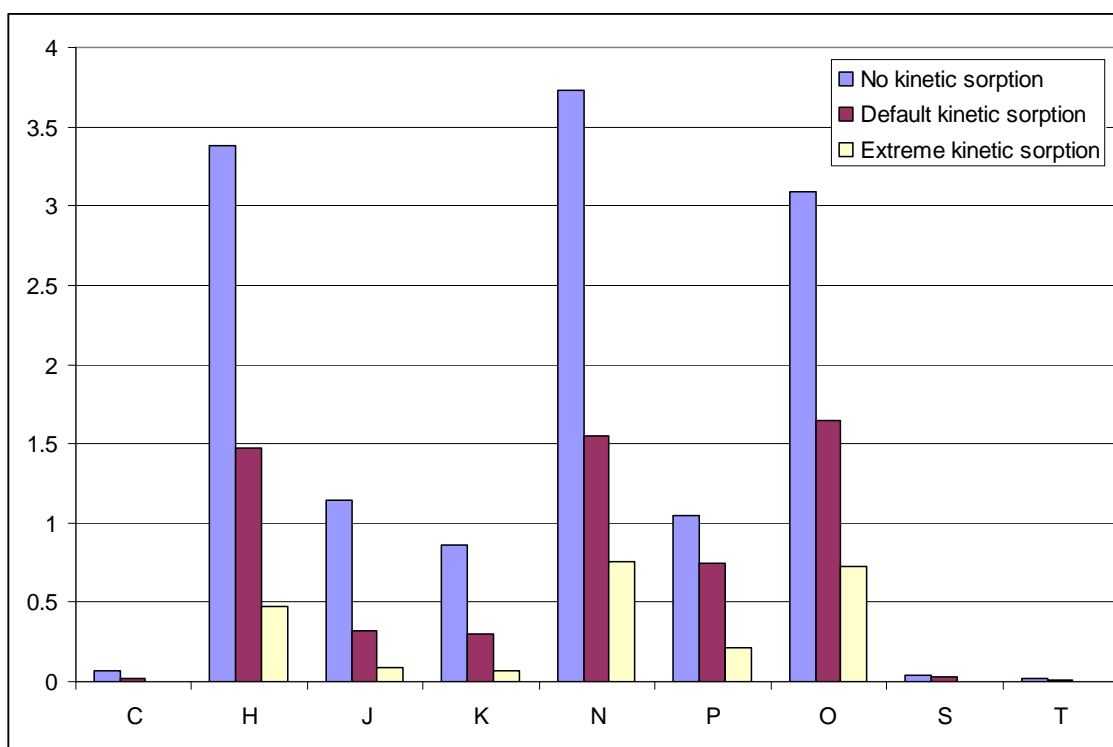


Figure 2: Effect of kinetic sorption at various FOCUS locations (80th percentile)

As shown in Figure 2 there is a clear dependency of kinetic sorption on the annual concentrations. Kinetic sorption reduces the mobility of a compound and can have a significant effect on observed and simulated leaching concentrations.

6. References

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7. Appendix A: New source code

7.1. Subroutine SLPST3

```

C
      SUBROUTINE SLPST3(
C
C     I  LPRZOT, MODID, K, DKBIO)
C
C     + + + PURPOSE + + +
C
C     Sets up the coefficient matrix for the solution
C     of the soil pesticide transport equation. It then calls an equa-
C     tion solver for the tridiagonal matrix and sets up pesticide
C     flux terms using the new concentrations.
C     Modification date: 2/18/92 JAM
C     Further modified at AQUA TERRA Consultants to hard code the
C     pesticide extraction depth to 1 cm. 9/93
C
C     + + + DUMMY ARGUMENTS + + +
C
C     INTEGER      K,LPRZOT
C     CHARACTER*3 MODID
C
C     + + + ARGUMENT DEFINITIONS + + +
C
C     LPRZOT - Fortran unit number for output file LPRZOT
C     MODID  - character string for output file identification
C     K      - chemical number being simulated (1-3)
C     DKBIO  - array containing rate of biodegradation
C     PRDPHT - runoff pesticide extraction depth
C     PFRAC  - pesticide to be distributed in the remaining depth
C              fraction
C     CMPT   - number of compartments which make up the pesticide
C              runoff extraction depth
C
C     + + + PARAMETERS + + +
C
C     INCLUDE 'PPARM.INC'
C
C     + + + COMMON BLOCKS + + +
C
C     INCLUDE 'CHYDR.INC'
C     INCLUDE 'CPEST.INC'
C     INCLUDE 'CCROP.INC'
C     INCLUDE 'CMISC.INC'
C     INCLUDE 'CACCUM.INC'
C
C     + + + LOCAL VARIABLES + + +
C

```

```

      INTEGER      I,J,KLIN,CMPT,ifeqok
      REAL         RTRWT,RTRST,dd2,chmtot(3,500)
      REAL         SRCWT,SRCST,ttmp
      real         p2ca,p2cb,p2cc,p2cd,p2,tmpdk
      REAL         THAIR(NCMPTS),DGAIR(NCMPTS)
      REAL         VTERM,DDLN
      real*8       pgammax,pmux,pomegax,plambdax1,plc,p2c,pls,p2s,
*                plambdax2,pdegads1,prx,prx1,pcx,pbx,PSTOT,PSTOT2
      REAL*4       DKBIO(3,NCMPTS)
      CHARACTER*80 MESSAGE
      real*8       dcwat,dcsed,dcs2,masself,p3

C
C   +   +   + EXTERNALS +   +   +
C
      EXTERNAL SUBIN,PSTLNK,TRDIAG,SUBOUT
C
C   +   +   + END SPECIFICATIONS +   +   +
C
      MESSAGE = 'SLPST3'
      CALL SUBIN(MESSAGE)
C
      DO 10 J=1,NCOM2
        SRCFLX(1,J)=0.0
        THAIR(J)=THETAS(J)-THETN(J)
        IF (THAIR(J) .LT. 0.0) THAIR(J) = 0.0
C        DGAIR now includes correction for air to bulk volume
        DGAIR(J)=(THAIR(J)**(10./3)/THETAS(J)**2)*DAIR(K) * THAIR(J)
10      CONTINUE
C

      do i=1,ncom2
        s2old(k,i)=s2(k,i)
      enddo
      do i=1,ncom2
        prx1=1.0+(feq(k,i)*(bd(i)*kd(k,i))/theto(i))
        prx=1.0+((bd(i)*kd(k,i))/theto(i))
        pomegax=(kdes(k,i)*bd(i))/(prx1*theto(i))
        pgammax=(kdes(k,i)*prx)/prx1
        pmux=(dwrate(k,i)+((prx1-1.0)*dsrate(k,i))/prx1
        pbx=pgammax+dks2(k,i)+pmux
        pcx=(pmux*(kdes(k,i)+dks2(k,i)))+
*          ((dks2(k,i))*(pgammax-kdes(k,i)))
        plambdax1=.5*(-pbx+SQRT((pbx**2-(4.0*pcx))))
        plambdax2=.5*(-pbx-SQRT((pbx**2-(4.0*pcx))))
        plc=((kdes(k,i)+dks2(k,i)+plambdax1)*
*          exp(plambdax1*float(delt))-
*          (kdes(k,i)+dks2(k,i)+plambdax2)*
*          exp(plambdax2*float(delt)))
        p2c=((pomegax*s2old(k,i))/(plambdax1-plambdax2))*
*          (exp(plambdax1*float(delt))-
*          exp(plambdax2*float(delt)))
        pcncx(k,i)=(spestr(k,i))/

```

```

*          (plambdax1-plambdax2))*plc+p2c
pls=(exp(plambdax1*float(delt))-
*      exp(plambdax2*float(delt)))
p2s=((kdes(k,i)+dks2(k,i)+plambdax1)*
*      exp(plambdax2*float(delt))-
*      (kdes(k,i)+dks2(k,i)+plambdax2)*
*      exp(plambdax1*float(delt)))
s2(k,i)=((kdes(k,i)*(1.0-feq(k,i))*kd(k,i)*spestr(k,i))/
*          (plambdax1-plambdax2))*pls+
*          (s2old(k,i)/(plambdax1-plambdax2))*p2s

C      Set up coefficients for surface layer
C
      J=1
      A(1)= 0.0
      B(1)=((DISP(K,1)*THETN(1)+KH(K,1)*DGAIR(1))/(DELX(1)*DELX(1))
1          +VEL(1)*THETN(1)/DELX(1))
3          +(DKBIO(K,1))*(THETN(1)+feq(k,1)*KD(K,1)*BD(1))
4          +(DGRATE(K,1))*THAIR(1)*KH(K,1)
5          +ELTERM(K)) *FLOAT(DELT)
6          +THETN(1) + feq(k,1)*KD(K,1)*BD(1)+ THAIR(1)*KH(K,1)
7          +CONDOC(K)*KH(K,1)*FLOAT(DELT)/DELX(1)

C
C      Add runoff term based on the number of compartments which
C      make up 1 cm depth.
C
      IF (RNCMPT .EQ. 1) THEN
          B(1) = B(1) + ((RUNOF*DRI(1))/DELX(1))
      ELSE
          B(1) = B(1) + ((RUNOF*DRI(1))/PRDPATH)
      ENDIF

C
      C(1)= -(DISP(K,2)*THETN(2)+KH(K,1)*DGAIR(2))*DELT/(DELX(1)*
1          0.5*(DELX(1)+DELX(2)))
      F(1)= (THETO(1)+feq(k,1)*KD(K,1)*BD(1)
*          +(THETAS(1)-THETO(1))*OKH(K,1))*pencx(K,1)
*          +(WTERM(K,1)*DELT/DELX(1))
*          +SRCFLX(K,1)/DELX(1)*DELT

C
C
C      Calculate coefficient of non-boundary soil layers
C
      DO 20 I=2,NCOM2M
          A(I)= -(DISP(K,I-1)*THETN(I-1)+KH(K,I-1)*DGAIR(I-1))
1              /(DELX(I)*0.5*(DELX(I-1)+DELX(I)))
2              -VEL(I-1)*THETN(I-1)/DELX(I)) *DELT
          B(I)= ((DISP(K,I)*THETN(I)+KH(K,I)*DGAIR(I))
1              /(DELX(I)*0.5*(DELX(I-1)+DELX(I)))
2              + (DISP(K,I)*THETN(I)+KH(K,I)*DGAIR(I))
3              /(DELX(I)*0.5*(DELX(I)+DELX(I+1)))
4              +VEL(I)*THETN(I)/DELX(I))

```

```

6          + ((DKBIO(K,I))*(THETN(I)+feq(k,i)*KD(K,I)*BD(I)))
+          + ((DGRATE(K,I))*THAIR(I)*KH(K,I))
7          + GAMMA(K,I)*ET(I)*THETN(I)/SW(I)) *DELT
8          + THEtn(I)+feq(k,i)*KD(K,I)*BD(I)+THAIR(I)*KH(K,I)

C
C      Add runoff term if current compartment number is less than or
C      equal to the number of compartments which make up 1 cm depth.
C
      IF (I .LT. RNCMPT) THEN
        B(I) = B(I) + ((RUNOF*DRI(I))/PRDPTH)
      ELSE
        IF (I .EQ. RNCMPT) THEN
          B(I) = B(I) + ((RUNOF*DRI(I))/DELX(I))*(PFRAC/PRDPTH)
        ENDIF
      ENDIF

C
      C(I) = -(DISP(K,I+1)*THETN(I+1)+KH(K,I+1)*DGAIR(I+1))
1      *DELT/(DELX(I)*0.5*(DELX(I)+DELX(I+1)))
      F(I) = (THETO(I)+feq(k,I)*KD(K,I)*BD(I)
*          + (THETAS(I)-THETO(I))*OKH(K,I))*pcncx(K,I)
*          + (WTERM(K,I)*DELT/DELX(I))
*          + SRCFLX(K,I)/DELX(I)*DELT

C
20      CONTINUE
C
C      Calculate coefficients of bottom layer
C
C
      VTERM = VEL(NCOM2) * THETN(NCOM2) / DELX(NCOM2)

C
      A(NCOM2) = -(DISP(K,NCOM2M)*THETN(NCOM2M)
1          + KH(K,NCOM2M)*DGAIR(NCOM2M))
2          / (DELX(NCOM2)*0.5*(DELX(NCOM2M)+DELX(NCOM2)))
3          - VEL(NCOM2M)*THETN(NCOM2M)/DELX(NCOM2))*DELT
      B(NCOM2) = ((DISP(K,NCOM2)*THETN(NCOM2)
1          + KH(K,NCOM2)*DGAIR(NCOM2))/(DELX(NCOM2)*DELX(NCOM2))
2          + VTERM
4          + ((DKBIO(K,NCOM2))*
4          (THETN(NCOM2)+feq(k,ncom2)*KD(K,NCOM2)*BD(NCOM2)))
6          + ((DGRATE(K,NCOM2))*THAIR(NCOM2)*KH(K,NCOM2)))*DELT
7          + THEtn(NCOM2)+feq(k,ncom2)*KD(K,NCOM2)*BD(NCOM2)
8          + THAIR(NCOM2)*KH(K,NCOM2)

C
      C(NCOM2) = 0.0
      F(NCOM2) = (THETO(NCOM2)+feq(k,ncom2)*KD(K,NCOM2)*BD(NCOM2)+
*          (THETAS(NCOM2)-THETO(NCOM2))*OKH(K,NCOM2))*pcncx(K,NCOM2)
*          + (WTERM(K,NCOM2)*DELT/DELX(NCOM2))
*          + SRCFLX(K,NCOM2)/DELX(NCOM2)*DELT

C
C      Call equation solver
C
C

```



```

CALL TRDIAG (A,B,C,X,F,NCOM2,LPRZOT,MODID)

C
PSTOT=0.0
PSTOT2=0.0

C Calculate pesticide fluxes
c
PVFLUX(K,1)=-CONDOC(K)*X(1)*KH(K,1)
IF(ABS(PVFLUX(K,1)).LT.1.E-34)PVFLUX(K,1)=0.0
DFFLUX(K,1)=DISP(K,1)/(0.5*(DELX(1)+DELX(2)))*X(1)*THETN(1)
1      -DISP(K,2)/(0.5*(DELX(1)+DELX(2)))*X(2)*THETN(2)
ADFLUX(K,1)=VEL(1)*X(1)*THETN(1)
LTFLUX(K,1)=0.0
p2=sngl(pcncx(k,1))*theto(1)+
*   sngl(pcncx(k,1))*feq(k,1)*BD(1)*KD(K,1)+
*   sngl(s2(k,1))*bd(1)
p3=(pcncx(k,1))*theto(1)+
*   (pcncx(k,1))*feq(k,1)*BD(1)*KD(K,1)
tmpdk=((pestr(k,1)*theto(1))-p2)*delx(1)
dkflux(k,1)=tmpdk
dkflux(k,1)=((pestr(k,1)*theto(1))-p2)*delx(1)
c      if(dkflux(k,1).lt.1.0e-12)dkflux(k,1)=0.0
if(k.eq.1)then
trflux(1,1)=(dkrw12(1)+dkrw13(1))*dkflux(1,1)
srcflx(1,1)=0.0
srcflx(2,1)=dkrw12(1)*dkflux(1,1)
srcflx(3,1)=dkrw13(1)*dkflux(1,1)
dkflux(1,1)=dkflux(1,1)-trflux(1,1)
elseif(k.eq.2)then
trflux(2,1)=dkrw23(1)*dkflux(2,1)
srcflx(3,1)=srcflx(3,1)+trflux(2,1)
dkflux(2,1)=dkflux(2,1)-trflux(2,1)
endif

C
IF (RNCMPT .EQ. 1) THEN
RFFLUX(K,1) =RUNOF*DRI(1)*X(1)
ELSE
RFFLUX(K,1) =RUNOF*X(1)*DRI(1)*(DELX(1)/PRDPATH)
ENDIF
ERFLUX(K)   =ELTERM(K)*DELX(1)*X(1)

C
DO 30 I=2,NCOM2M
RFFLUX(K,I) = 0.0
IF (I .LT. RNCMPT) THEN
RFFLUX(K,I)=RUNOF*DRI(I)*X(I)*(DELX(I)/PRDPATH)
ELSE
IF (I.EQ.RNCMPT) RFFLUX(K,I)=RUNOF*DRI(I)*X(I)*(PFRAC/PRDPATH)
ENDIF
PVFLUX(K,I)=DGAIR(I)*KH(K,I)/(0.5*(DELX(I)+DELX(I+1)))*X(I)-
1      DGAIR(I+1)*KH(K,I+1)/(0.5*(DELX(I)+DELX(I+1)))*X(I+1)
IF(ABS(PVFLUX(K,I)).LT.1.E-34)PVFLUX(K,I)=0.0
DFFLUX(K,I)=DISP(K,I)/(0.5*(DELX(I)+DELX(I+1)))*THETN(I)*X(I)-
1      DISP(K,I+1)/(0.5*(DELX(I)+DELX(I+1)))*THETN(I+1)*X(I+1)

```

```

      ADFLUX(K,I)=VEL(I)*X(I)*THETN(I)
      LTFLUX(K,I)=OUTFLO(I)*X(I)
      p2=sngl(pcncx(k,i))*theto(i)+
*       sngl(pcncx(k,i))*feq(k,i)*BD(i)*KD(K,i)+
*       sngl(s2(k,i))*bd(i)
      tmpdk=((pestr(k,i)*theto(i))-p2)*delx(i)
      dkflux(k,i)=tmpdk
c       if(i.eq.2)then
c         call idebuginteger('i',i)
c         call idebuginteger('k',k)
c         call idebugreal('pestr',pestr(k,i)*theto(i),'(e20.15)')
c         call idebugreal('p2',sngl(pcncx(k,i))*theto(i)+
c *           sngl(pcncx(k,i))*feq(k,i)*BD(1)*KD(K,i)+
c *           sngl(s2(k,i))*bd(i),'(e20.15)')
c         call idebugreal('dkflx1',sngl(dkflux(k,i)),'(e20.15)')
c       endif
      UPFLUX(K,I)=GAMMA(K,I)*ET(I)*X(I)
      if(k.eq.1)then
        trflux(1,i)=(dkrw12(i)+dkrw13(i))*dkflux(1,i)
        srcflx(1,i)=0.0
        srcflx(2,i)=dkrw12(i)*dkflux(1,i)
        srcflx(3,i)=dkrw13(i)*dkflux(1,i)
        dkflux(1,i)=dkflux(1,i)-trflux(1,i)
      elseif(k.eq.2)then
        trflux(2,i)=dkrw23(i)*dkflux(2,i)
        srcflx(3,i)=srcflx(3,i)+trflux(2,i)
        dkflux(2,i)=dkflux(2,i)-trflux(2,i)
      endif
30    CONTINUE
C
      RZFLUX(K)= DISP(K,NCOMRZ)/(0.5*(DELX(NCOMRZ)+DELX(NCOMRZ+1)))
1    *THETN(NCOMRZ)*X(NCOMRZ)-DISP(K,NCOMRZ+1)/(0.5*(DELX(NCOMRZ+1)
2    +DELX(NCOMRZ)))*THETN(NCOMRZ+1)*X(NCOMRZ+1)
3    +(VEL(NCOMRZ)*X(NCOMRZ)*THETN(NCOMRZ))
      RFFLUX(K,NCOM2)=0.
      DFFLUX(K,NCOM2)=0.
      PVFLUX(K,NCOM2)=0.
      UPFLUX(K,NCOM2)=0.
      ADFLUX(K,NCOM2)= VTERM * DELX(NCOM2) * X(NCOM2)
      LTFLUX(K,NCOM2)=OUTFLO(NCOM2)*X(NCOM2)
      p2=sngl(pcncx(k,ncom2))*theto(ncom2)+
*       sngl(pcncx(k,ncom2))*feq(k,ncom2)*BD(ncom2)*KD(K,ncom2)+
*       sngl(s2(k,ncom2))*bd(ncom2)
      tmpdk=((pestr(k,ncom2)*theto(ncom2))-p2)*delx(ncom2)
      dkflux(k,ncom2)=tmpdk
c       dkflux(k,ncom2)=((pestr(k,ncom2)*theto(ncom2))-
c *       (sngl(pcncx(k,ncom2))*theto(ncom2)+
c *       sngl(pcncx(k,ncom2))*FEQ(K,ncom2)*BD(ncom2)*KD(K,ncom2)+
c *       sngl(s2(k,ncom2))*bd(ncom2)))*delx(ncom2)
c       if(dkflux(k,ncom2).lt.1.0e-12)dkflux(k,ncom2)=0.0
c
      if(k.eq.1)then

```

```

      trflux(1,ncom2)=(dkrw12(ncom2)+dkrw13(ncom2))*dkflux(1,ncom2)
      srcflx(1,ncom2)=0.0
      srcflx(2,ncom2)=dkrw12(ncom2)*dkflux(1,ncom2)
      srcflx(3,ncom2)=dkrw13(ncom2)*dkflux(1,ncom2)
      dkflux(1,ncom2)=dkflux(1,ncom2)-trflux(1,ncom2)
elseif(k.eq.2)then
      trflux(2,ncom2)=dkrw23(ncom2)*dkflux(2,ncom2)
      srcflx(3,ncom2)=srcflx(3,ncom2)+trflux(2,ncom2)
      dkflux(2,ncom2)=dkflux(2,ncom2)-trflux(2,ncom2)
endif
C
C      Calculate core flux values.
C      Multiply internal units of GR/CM**2 by 10**5 so output
C      is expressed in units of KG/HA (as in the input).
C
      DCOFLX(K) = DISP(K,NCOM2)/DELX(NCOM2)*THETN(NCOM2)*X(NCOM2)
1      - DISP(K,NCOM2)/DELX(NCOM2)*THETN(NCOM2)*X(NCOM2)
2      + (VEL(NCOM2)*X(NCOM2)*THETN(NCOM2))
      DCOFLX(K) = DCOFLX(K) * 1.0E5
      MCOFLX(K) = MCOFLX(K) + DCOFLX(K)
      YCOFLX(K) = YCOFLX(K) + DCOFLX(K)
C
C      Accumulate fluxes from soil layers for output
C
      WOFLUX(K)= 0.0
      ROFLUX(K)= 0.0
      SUPFLX(K)= 0.0
      SDKFLX(K)= 0.0
      TTRFLX(K)= 0.0
      TSRCFX(K)= 0.0
      LATFLX(K)=0.0
      DO 40 I=1,NCOM2
          WOFLUX(K)= WOFLUX(K)+WTERM(K,I)
          ROFLUX(K)= ROFLUX(K)+RFFLUX(K,I)
          SDKFLX(K)= SDKFLX(K)+DKFLUX(K,I)
          SUPFLX(K)= SUPFLX(K)+UPFLUX(K,I)
          TTRFLX(K)= TTRFLX(K)+TRFLUX(K,I)
          TSRCFX(K)= TSRCFX(K)+SRCFLX(K,I)
          LATFLX(K)= LATFLX(K)+LTFLUX(K,I)
40      CONTINUE
      do i=1,1
      enddo
C
      CALL SUBOUT
C
      RETURN
      END

```

8. Appendix B: Test simulation output

8.1. Example simulations Set A

8.1.1. PRZM MASTER.FPJ File

Project File Created: 2009- 9-17, 12: 2:35
 FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)
 Parent Compound: FOCUS dummy D

PRZM3.21 beta
 Crop: Cereals (Winter)

```

CROP           : 7 1
SCENARIO       : 111111111
ROTATION       : 1
RELATIONSHIP    : 1
CHEMICAL       : 1 0010101
  Chemical Name: FOCUS dummy D
  Molecular Wgt: 300.000
  Plant Upt Fct: 0.500
  Part Cff Mth : 1
  Part Cff Fct : 60.000
  Freund Exp   : 0.900
  Vapor Pres   : 0.1000E+00
  Solubility    : 0.9000E+02
  Degr. PH1    : 20.000
  Degr. PH2    : 0.000
  % Degr. PH1  : 0.000      0.000      0.000
  % Degr. PH2  : 0.000      0.000      0.000
  Bi-Phase     : 0
  Q10 FAC      : 2.580
  Q10 Temp     : 20.000
  Moisture Exp  : 0.700
  Moisture Cnt : 100.000
  Moisture Type: 2          2          2          -999
  Foliar 1/2   : 0.000
  Foliar Wash. : 0.000
APPLICATION    : 122
  Days Rel     : -1
  Day          : -1
  Month        : 0
  CAM          : 1
  Depi         : 4.000
  Rate         : 1.0000
  Drift        : 0.000
  Eff          : 100.000
  
```

8.1.2. PRZM CNC-80.ANN Result Summary File

PRZM: Pesticide concentration (80th percentile)

Pesticide	FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)	9
Precipitation (mm)		
Irrigation (mm)		
Runoff (mm)		
ET (mm)		
Percolate 1m (mm)		
Percolate (bottom of core) (mm)		
Concentration at 1m (up to 3) (ug/L)		
FOCUS dummy D C	0.6484E+03 0.0000E+00 0.0000E+00 0.5061E+03 0.1423E+03 0.1423E+03 0.6459E-01	
FOCUS dummy D H	0.7865E+03 0.0000E+00 0.0000E+00 0.5209E+03 0.2666E+03 0.2666E+03 0.3382E+01	
FOCUS dummy D J	0.6502E+03 0.0000E+00 0.0000E+00 0.4363E+03 0.2139E+03 0.2139E+03 0.1139E+01	
FOCUS dummy D K	0.8991E+03 0.0000E+00 0.0000E+00 0.6032E+03 0.2971E+03 0.2959E+03 0.8611E+00	
FOCUS dummy D N	0.1038E+04 0.0000E+00 0.0000E+00 0.6046E+03 0.4333E+03 0.4333E+03 0.3724E+01	
FOCUS dummy D P	0.8573E+03 0.0000E+00 0.0000E+00 0.5390E+03 0.3190E+03 0.3182E+03 0.1043E+01	
FOCUS dummy D O	0.1150E+04 0.0000E+00 0.0000E+00 0.6034E+03 0.5476E+03 0.5465E+03 0.3086E+01	
FOCUS dummy D S	0.4928E+03 0.0000E+00 0.0000E+00 0.3719E+03 0.1209E+03 0.1209E+03 0.4251E-01	
FOCUS dummy D T	0.5000E+03 0.0000E+00 0.0000E+00 0.4022E+03 0.9786E+02 0.9786E+02 0.1968E-01	

8.1.3. PRZM C-CW-Z1.TAB File – Output for Châteaudun

C:\fgrat\Projects\runmanual1 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)
 Concentration Summary
 (1) Period
 (2) Years
 (3) Conc. (ug/l)

(4) Mass (g/ha)

(5) Leachate (l/ha)

Bottom of Soil Core

1	7	0.2826E-11	0.4982E-11	0.1763E+07
2	8	0.1011E-09	0.7799E-10	0.7717E+06
3	9	0.8087E-08	0.1471E-07	0.1819E+07
4	10	0.6493E-06	0.1459E-05	0.2247E+07
5	11	0.1564E-04	0.4010E-04	0.2564E+07
6	12	0.1045E-03	0.2152E-03	0.2060E+07
7	13	0.6206E-03	0.1446E-02	0.2330E+07
8	14	0.4705E-02	0.1061E-01	0.2255E+07
9	15	0.1838E-01	0.2270E-01	0.1235E+07
10	16	0.5259E-01	0.1238	0.2354E+07
11	17	0.9000E-01	0.7905E-01	0.8783E+06
12	18	0.1103	0.1187	0.1076E+07
13	19	0.1281	0.2207	0.1723E+07
14	20	0.1299	0.2324	0.1789E+07
15	21	0.1215	0.6839E-01	0.5630E+06
16	22	0.1175	0.2332E-01	0.1985E+06
17	23	0.1135	0.5633E-01	0.4965E+06
18	24	0.1055	0.7723E-01	0.7318E+06
19	25	0.9694E-01	0.7008E-01	0.7229E+06
20	26	0.8718E-01	0.7705E-01	0.8838E+06

At 1 Meter

1	7	0.1465E-02	0.2582E-02	0.1763E+07
2	8	0.1561E-02	0.1205E-02	0.7717E+06
3	9	0.3034E-02	0.5519E-02	0.1819E+07
4	10	0.4860E-01	0.1092	0.2247E+07
5	11	0.1483	0.3802	0.2564E+07
6	12	0.2280	0.4696	0.2060E+07
7	13	0.1468	0.3421	0.2330E+07
8	14	0.4936E-01	0.1113	0.2255E+07
9	15	0.6569E-01	0.8113E-01	0.1235E+07
10	16	0.2396E-01	0.5641E-01	0.2354E+07
11	17	0.6349E-01	0.5576E-01	0.8783E+06
12	18	0.1562E-01	0.1681E-01	0.1076E+07
13	19	0.5862E-02	0.1010E-01	0.1723E+07
14	20	0.2400E-01	0.4293E-01	0.1789E+07
15	21	0.1623E-01	0.9137E-02	0.5630E+06
16	22	0.000	-.6556E-03	0.1985E+06
17	23	0.000	-.2653E-03	0.4965E+06
18	24	0.000	-.5822E-03	0.7318E+06
19	25	0.000	-.1018E-03	0.7229E+06
20	26	0.1095E-02	0.9680E-03	0.8838E+06

Mass Balance Summary (g/ha)

(1) Period

(2) Years

(3) Applied/Formed

(4) Runoff

(5) Volatilized

(6) Decayed

(7) Uptake

(8) Leached

(9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.3790	733.0	115.0	0.4980E-11	581.0
2	8	1000.	0.000	0.2240	903.0	119.0	0.7800E-10	559.0
3	9	1000.	0.000	0.3650	941.0	154.0	0.1470E-07	464.0
4	10	1000.	0.000	0.4720	813.0	126.0	0.1460E-05	523.0
5	11	1000.	0.000	0.1860	899.0	131.0	0.4010E-04	493.0
6	12	1000.	0.000	0.3610	806.0	162.0	0.2150E-03	525.0
7	13	1000.	0.000	0.1600	867.0	143.0	0.1450E-02	514.0
8	14	1000.	0.000	0.3420	895.0	136.0	0.1060E-01	483.0
9	15	1000.	0.000	0.2880	808.0	101.0	0.2270E-01	574.0
10	16	1000.	0.000	0.2920	954.0	154.0	0.1240	465.0
11	17	1000.	0.000	0.3610	758.0	144.0	0.7910E-01	562.0
12	18	1000.	0.000	0.2460	928.0	167.0	0.1190	467.0
13	19	1000.	0.000	0.2480	817.0	125.0	0.2210	525.0
14	20	1000.	0.000	0.3580	888.0	121.0	0.2320	515.0
15	21	1000.	0.000	0.4400	913.0	125.0	0.6840E-01	477.0
16	22	1000.	0.000	0.1360	826.0	104.0	0.2330E-01	548.0
17	23	1000.	0.000	0.2210	842.0	137.0	0.5630E-01	568.0
18	24	1000.	0.000	0.1960	918.0	145.0	0.7720E-01	505.0
19	25	1000.	0.000	0.5200	783.0	156.0	0.7010E-01	566.0
20	26	1000.	0.000	0.3170	976.0	159.0	0.7700E-01	430.0

At 1 Meter

1	7	1000.	0.000	0.3790	733.0	115.0	0.2580E-02	581.0
2	8	1000.	0.000	0.2240	903.0	119.0	0.1210E-02	559.0
3	9	1000.	0.000	0.3650	941.0	154.0	0.5520E-02	464.0
4	10	1000.	0.000	0.4720	813.0	126.0	0.1090	523.0
5	11	1000.	0.000	0.1860	899.0	131.0	0.3800	493.0
6	12	1000.	0.000	0.3610	806.0	162.0	0.4700	524.0
7	13	1000.	0.000	0.1600	867.0	143.0	0.3420	513.0
8	14	1000.	0.000	0.3420	895.0	136.0	0.1110	482.0
9	15	1000.	0.000	0.2880	808.0	101.0	0.8110E-01	572.0
10	16	1000.	0.000	0.2920	954.0	154.0	0.5640E-01	463.0
11	17	1000.	0.000	0.3610	758.0	144.0	0.5580E-01	561.0
12	18	1000.	0.000	0.2460	928.0	167.0	0.1680E-01	466.0
13	19	1000.	0.000	0.2480	817.0	125.0	0.1010E-01	524.0
14	20	1000.	0.000	0.3580	888.0	121.0	0.4290E-01	515.0
15	21	1000.	0.000	0.4400	913.0	125.0	0.9140E-02	477.0
16	22	1000.	0.000	0.1360	826.0	104.0	-.6560E-03	547.0
17	23	1000.	0.000	0.2210	842.0	137.0	-.2650E-03	568.0
18	24	1000.	0.000	0.1960	918.0	145.0	-.5820E-03	505.0
19	25	1000.	0.000	0.5200	783.0	156.0	-.1020E-03	566.0
20	26	1000.	0.000	0.3170	976.0	159.0	0.9680E-03	430.0

Hydrology Summary (cm)

(1) Period

(2) Years

(3) Precipitation

(4) Runoff

(5) ET

(6) Leach - At 1 Meter

(7) Leach - Bottom of Soil Core

(8) Irrigation (cm)

1	7	73.25	0.000	55.79	17.63	17.63	0.000
2	8	47.33	0.000	39.32	7.717	7.717	0.000
3	9	75.86	0.000	57.71	18.19	18.19	0.000
4	10	70.63	0.000	48.11	22.47	22.47	0.000
5	11	78.66	0.000	53.06	25.64	25.64	0.000
6	12	69.03	0.000	48.39	20.60	20.60	0.000
7	13	80.47	0.000	57.17	23.30	23.30	0.000
8	14	72.77	0.000	50.51	22.55	22.55	0.000
9	15	66.83	0.000	56.97	12.35	12.35	0.000
10	16	84.61	0.000	58.38	23.54	23.54	0.000
11	17	59.36	0.000	53.84	8.783	8.783	0.000
12	18	63.40	0.000	49.30	10.76	10.76	0.000
13	19	65.77	0.000	48.74	17.23	17.23	0.000
14	20	69.51	0.000	51.61	17.89	17.89	0.000
15	21	52.27	0.000	47.27	5.630	5.630	0.000
16	22	41.33	0.000	38.52	1.985	1.985	0.000
17	23	50.70	0.000	48.25	4.965	4.965	0.000
18	24	59.26	0.000	50.26	7.318	7.318	0.000
19	25	55.41	0.000	47.34	7.229	7.229	0.000
20	26	60.45	0.000	51.73	8.838	8.838	0.000

8.1.4. PRZM H-CW-Z1.TAB File – Output for Hamburg

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Concentration Summary

(1) Period

(2) Years

(3) Conc. (ug/l)

(4) Mass (g/ha)

(5) Leachate (l/ha)

Bottom of Soil Core

1	7	6.344	7.435	0.1172E+07
2	8	5.516	7.584	0.1375E+07
3	9	2.250	5.469	0.2431E+07
4	10	1.491	4.179	0.2803E+07
5	11	2.052	4.770	0.2324E+07
6	12	2.238	10.27	0.4588E+07
7	13	3.604	14.67	0.4071E+07
8	14	3.935	6.792	0.1726E+07
9	15	2.337	8.450	0.3615E+07
10	16	3.670	10.77	0.2935E+07
11	17	3.298	5.840	0.1771E+07
12	18	1.750	3.939	0.2251E+07
13	19	1.656	4.279	0.2584E+07
14	20	1.998	6.026	0.3016E+07
15	21	2.464	3.832	0.1555E+07

16	22	2.627	2.006	0.7636E+06
17	23	1.242	3.302	0.2658E+07
18	24	0.7283	1.836	0.2521E+07
19	25	2.291	9.950	0.4343E+07
20	26	4.086	18.83	0.4608E+07

At 1 Meter

1	7	5.327	6.323	0.1187E+07
2	8	2.160	2.970	0.1375E+07
3	9	1.099	2.705	0.2461E+07
4	10	1.961	5.514	0.2812E+07
5	11	1.698	3.961	0.2333E+07
6	12	3.069	14.10	0.4595E+07
7	13	3.628	14.79	0.4077E+07
8	14	3.135	5.443	0.1736E+07
9	15	2.314	8.393	0.3627E+07
10	16	3.832	11.27	0.2941E+07
11	17	2.053	3.654	0.1780E+07
12	18	1.184	2.678	0.2262E+07
13	19	2.066	5.352	0.2591E+07
14	20	2.275	6.879	0.3024E+07
15	21	2.446	3.831	0.1566E+07
16	22	1.188	0.9069	0.7636E+06
17	23	0.4957	1.327	0.2677E+07
18	24	1.286	3.263	0.2537E+07
19	25	3.032	13.19	0.4350E+07
20	26	5.120	23.67	0.4623E+07

Mass Balance Summary (g/ha)

- (1) Period
- (2) Years
- (3) Applied/Formed
- (4) Runoff
- (5) Volatilized
- (6) Decayed
- (7) Uptake
- (8) Leached
- (9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.1910	843.0	75.10	7.430	715.0
2	8	1000.	0.000	0.1430	874.0	78.60	7.580	755.0
3	9	1000.	0.000	0.1780	1000.	85.80	5.470	661.0
4	10	1000.	0.000	0.2850	854.0	76.80	4.180	727.0
5	11	1000.	0.000	0.1230	946.0	78.40	4.770	698.0
6	12	1000.	0.000	0.1860	889.0	72.60	10.30	726.0
7	13	1000.	0.000	0.1270	871.0	68.50	14.70	772.0
8	14	1000.	0.000	0.2230	1000.	82.40	6.790	680.0
9	15	1000.	0.000	0.2280	850.0	49.30	8.450	772.0
10	16	1000.	0.000	0.3520	957.0	75.00	10.80	729.0
11	17	1000.	0.000	0.1070	932.0	85.00	5.840	706.0
12	18	1000.	0.000	0.1480	988.0	93.60	3.940	621.0
13	19	1000.	0.000	0.1690	885.0	76.20	4.280	656.0
14	20	1000.	0.000	0.1430	902.0	69.30	6.030	679.0
15	21	1000.	0.000	0.2870	879.0	57.90	3.830	737.0
16	22	1000.	0.000	0.1740	970.0	87.40	2.010	677.0
17	23	1000.	0.000	0.9980E-01	934.0	74.60	3.300	665.0
18	24	1000.	0.000	0.1230	918.0	62.00	1.840	683.0
19	25	1000.	0.000	0.1720	851.0	75.60	9.950	747.0
20	26	1000.	0.000	0.1860	1000.	83.40	18.80	640.0

At 1 Meter

1	7	1000.	0.000	0.1910	843.0	75.10	6.320	706.0
2	8	1000.	0.000	0.1430	874.0	78.60	2.970	750.0
3	9	1000.	0.000	0.1780	1000.	85.80	2.710	659.0
4	10	1000.	0.000	0.2850	854.0	76.80	5.510	723.0
5	11	1000.	0.000	0.1230	946.0	78.40	3.960	695.0
6	12	1000.	0.000	0.1860	889.0	72.60	14.10	720.0
7	13	1000.	0.000	0.1270	871.0	68.50	14.80	766.0
8	14	1000.	0.000	0.2230	1000.	82.40	5.440	675.0
9	15	1000.	0.000	0.2280	850.0	49.30	8.390	767.0
10	16	1000.	0.000	0.3520	957.0	75.00	11.30	724.0
11	17	1000.	0.000	0.1070	932.0	85.00	3.650	703.0
12	18	1000.	0.000	0.1480	988.0	93.60	2.680	619.0
13	19	1000.	0.000	0.1690	885.0	76.20	5.350	653.0
14	20	1000.	0.000	0.1430	902.0	69.30	6.880	675.0
15	21	1000.	0.000	0.2870	879.0	57.90	3.830	733.0
16	22	1000.	0.000	0.1740	970.0	87.40	0.9070	675.0
17	23	1000.	0.000	0.9980E-01	934.0	74.60	1.330	664.0
18	24	1000.	0.000	0.1230	918.0	62.00	3.260	681.0

19	25	1000.	0.000	0.1720	851.0	75.60	13.20	741.0
20	26	1000.	0.000	0.1860	1000.	83.40	23.70	630.0

Hydrology Summary (cm)

- (1) Period
- (2) Years
- (3) Precipitation
- (4) Runoff
- (5) ET
- (6) Leach - At 1 Meter
- (7) Leach - Bottom of Soil Core
- (8) Irrigation (cm)

1	7	60.24	0.000	48.52	11.87	11.72	0.000
2	8	54.02	0.000	41.68	13.75	13.75	0.000
3	9	78.65	0.000	52.93	24.61	24.31	0.000
4	10	77.75	0.000	48.99	28.12	28.03	0.000
5	11	73.15	0.000	50.64	23.33	23.24	0.000
6	12	98.84	0.000	52.96	45.95	45.88	0.000
7	13	94.08	0.000	53.37	40.77	40.71	0.000
8	14	70.08	0.000	52.82	17.36	17.26	0.000
9	15	80.97	0.000	44.82	36.27	36.15	0.000
10	16	78.08	0.000	48.40	29.41	29.35	0.000
11	17	75.04	0.000	57.44	17.80	17.71	0.000
12	18	78.01	0.000	55.71	22.62	22.51	0.000
13	19	83.12	0.000	57.33	25.91	25.84	0.000
14	20	84.07	0.000	53.86	30.24	30.16	0.000
15	21	66.80	0.000	51.40	15.66	15.55	0.000
16	22	60.84	0.000	53.37	7.636	7.636	0.000
17	23	82.15	0.000	55.35	26.77	26.58	0.000
18	24	77.40	0.000	52.10	25.37	25.21	0.000
19	25	99.93	0.000	56.50	43.50	43.43	0.000
20	26	99.73	0.000	53.65	46.23	46.08	0.000

8.1.5. PRZM J-CW-Z1.TAB File – Output for Jokioinen

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Concentration Summary

- (1) Period
- (2) Years
- (3) Conc. (ug/l)
- (4) Mass (g/ha)
- (5) Leachate (l/ha)

Bottom of Soil Core

1	7	0.8634	1.448	0.1677E+07
2	8	0.6290	0.7580	0.1205E+07
3	9	0.3709	0.9855	0.2657E+07
4	10	0.2679	1.003	0.3744E+07
5	11	0.5285	0.9798	0.1854E+07
6	12	0.8195	1.348	0.1645E+07
7	13	0.6324	2.913	0.4606E+07
8	14	0.6021	1.047	0.1739E+07
9	15	1.056	3.847	0.3643E+07
10	16	1.027	3.695	0.3598E+07
11	17	1.381	3.134	0.2269E+07
12	18	1.987	3.176	0.1598E+07
13	19	2.071	0.3652	0.1763E+06
14	20	2.067	0.1645	0.7960E+05
15	21	2.055	0.3537	0.1721E+06
16	22	1.989	1.014	0.5097E+06
17	23	0.8479	3.562	0.4201E+07
18	24	0.3395	1.542	0.4542E+07
19	25	0.7872	1.195	0.1518E+07
20	26	0.9696	1.307	0.1348E+07

At 1 Meter

1	7	0.3541	0.5939	0.1677E+07
2	8	0.2515	0.3031	0.1205E+07
3	9	0.1991	0.5291	0.2657E+07
4	10	0.5470	2.048	0.3744E+07
5	11	0.9660	1.791	0.1854E+07
6	12	0.6340	1.043	0.1645E+07
7	13	0.5673	2.613	0.4606E+07
8	14	1.314	2.285	0.1739E+07
9	15	1.020	3.716	0.3643E+07
10	16	1.258	4.525	0.3598E+07
11	17	2.260	5.128	0.2269E+07
12	18	1.642	2.624	0.1598E+07

13	19	0.8327	0.1468	0.1763E+06
14	20	0.1132	0.9013E-02	0.7960E+05
15	21	0.000	- .1790E-02	0.1721E+06
16	22	0.5338E-01	0.2721E-01	0.5097E+06
17	23	0.1095	0.4602	0.4201E+07
18	24	0.7948	3.610	0.4542E+07
19	25	0.9908	1.504	0.1518E+07
20	26	0.6726	0.9067	0.1348E+07

Mass Balance Summary (g/ha)

- (1) Period
- (2) Years
- (3) Applied/Formed
- (4) Runoff
- (5) Volatilized
- (6) Decayed
- (7) Uptake
- (8) Leached
- (9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.2270	953.0	122.0	1.450	670.0
2	8	1000.	0.000	0.2340	694.0	100.0	0.7580	875.0
3	9	1000.	0.000	0.1880	1020.	121.0	0.9860	729.0
4	10	1000.	0.000	0.1160	889.0	88.90	1.000	750.0
5	11	1000.	0.000	0.1870	892.0	115.0	0.9800	742.0
6	12	1000.	0.000	0.1680	889.0	104.0	1.350	747.0
7	13	1000.	0.000	0.1600	930.0	89.20	2.910	725.0
8	14	1000.	0.000	0.2120	879.0	85.70	1.050	759.0
9	15	1000.	0.000	0.1240	963.0	92.60	3.850	700.0
10	16	1000.	0.000	0.1120	893.0	71.00	3.700	732.0
11	17	1000.	0.000	0.1510	882.0	113.0	3.130	734.0
12	18	1000.	0.000	0.1360	892.0	85.00	3.180	754.0
13	19	1000.	0.000	0.1660	861.0	115.0	0.3650	778.0
14	20	1000.	0.000	0.2400	876.0	118.0	0.1640	784.0
15	21	1000.	0.000	0.2490	974.0	127.0	0.3540	682.0
16	22	1000.	0.000	0.1510	830.0	108.0	1.010	743.0
17	23	1000.	0.000	0.1420	1030.	100.0	3.560	606.0
18	24	1000.	0.000	0.1260	914.0	83.80	1.540	606.0
19	25	1000.	0.000	0.1570	779.0	92.30	1.200	734.0
20	26	1000.	0.000	0.2300	888.0	97.10	1.310	747.0

At 1 Meter

1	7	1000.	0.000	0.2270	953.0	122.0	0.5940	669.0
2	8	1000.	0.000	0.2340	694.0	100.0	0.3030	873.0
3	9	1000.	0.000	0.1880	1020.	121.0	0.5290	729.0
4	10	1000.	0.000	0.1160	889.0	88.90	2.050	748.0
5	11	1000.	0.000	0.1870	892.0	115.0	1.790	739.0
6	12	1000.	0.000	0.1680	889.0	104.0	1.040	745.0
7	13	1000.	0.000	0.1600	930.0	89.20	2.610	723.0
8	14	1000.	0.000	0.2120	879.0	85.70	2.290	756.0
9	15	1000.	0.000	0.1240	963.0	92.60	3.720	697.0
10	16	1000.	0.000	0.1120	893.0	71.00	4.520	728.0
11	17	1000.	0.000	0.1510	882.0	113.0	5.130	728.0
12	18	1000.	0.000	0.1360	892.0	85.00	2.620	749.0
13	19	1000.	0.000	0.1660	861.0	115.0	0.1470	773.0
14	20	1000.	0.000	0.2400	876.0	118.0	0.9010E-02	779.0
15	21	1000.	0.000	0.2490	974.0	127.0	- .1790E-02	677.0
16	22	1000.	0.000	0.1510	830.0	108.0	0.2720E-01	739.0
17	23	1000.	0.000	0.1420	1030.	100.0	0.4600	605.0
18	24	1000.	0.000	0.1260	914.0	83.80	3.610	604.0
19	25	1000.	0.000	0.1570	779.0	92.30	1.500	731.0
20	26	1000.	0.000	0.2300	888.0	97.10	0.9070	745.0

Hydrology Summary (cm)

- (1) Period
- (2) Years
- (3) Precipitation
- (4) Runoff
- (5) ET
- (6) Leach - At 1 Meter
- (7) Leach - Bottom of Soil Core
- (8) Irrigation (cm)

1	7	65.88	0.000	48.21	16.77	16.77	0.000
2	8	51.17	0.000	38.67	12.05	12.05	0.000
3	9	72.96	0.000	44.53	26.57	26.57	0.000
4	10	84.76	0.000	46.83	37.44	37.44	0.000
5	11	62.97	0.000	45.88	18.54	18.54	0.000

6	12	71.74	0.000	47.35	16.45	16.45	0.000
7	13	95.09	0.000	53.05	46.06	46.06	0.000
8	14	55.80	0.000	44.57	17.39	17.39	0.000
9	15	86.57	0.000	43.48	36.43	36.43	0.000
10	16	73.57	0.000	42.61	35.98	35.98	0.000
11	17	74.52	0.000	44.64	22.69	22.69	0.000
12	18	41.22	0.000	34.22	15.98	15.98	0.000
13	19	32.57	0.000	34.34	1.763	1.763	0.000
14	20	43.09	0.000	39.18	0.7960	0.7960	0.000
15	21	37.50	0.000	37.37	1.721	1.721	0.000
16	22	39.35	0.000	36.24	5.097	5.097	0.000
17	23	96.40	0.000	50.88	42.01	42.01	0.000
18	24	96.40	0.000	50.98	45.42	45.42	0.000
19	25	62.97	0.000	44.91	15.18	15.18	0.000
20	26	55.80	0.000	44.57	13.48	13.48	0.000

8.1.6. PRZM K-CW-Z1.TAB File – Output for Kremsmünster

C:\fgrat\Projects\runmanuall of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

- (1) Period
- (2) Years
- (3) Conc. (ug/l)
- (4) Mass (g/ha)
- (5) Leachate (l/ha)

Bottom of Soil Core

1	7	0.2761	1.003	0.3633E+07
2	8	0.4631	1.099	0.2373E+07
3	9	0.5185	2.693	0.5194E+07
4	10	0.6401	3.119	0.4873E+07
5	11	1.512	6.844	0.4526E+07
6	12	2.712	7.611	0.2806E+07
7	13	2.464	11.31	0.4591E+07
8	14	1.364	4.823	0.3535E+07
9	15	0.8505	1.496	0.1759E+07
10	16	0.6734	1.495	0.2220E+07
11	17	0.6358	1.905	0.2996E+07
12	18	0.5673	1.479	0.2607E+07
13	19	0.4548	1.841	0.4048E+07
14	20	0.5483	1.328	0.2422E+07
15	21	0.6661	1.867	0.2803E+07
16	22	0.7323	0.2074	0.2832E+06
17	23	0.000	0.000	0.000
18	24	0.7119	2.750	0.3863E+07
19	25	0.5252	1.270	0.2418E+07
20	26	0.3942	0.8791	0.2230E+07

At 1 Meter

1	7	0.5151	1.877	0.3644E+07
2	8	0.5307	1.269	0.2391E+07
3	9	0.9572	4.984	0.5207E+07
4	10	2.526	12.33	0.4882E+07
5	11	2.663	12.08	0.4537E+07
6	12	1.299	3.657	0.2815E+07
7	13	0.5597	2.577	0.4604E+07
8	14	0.6069	2.155	0.3551E+07
9	15	0.7573	1.342	0.1772E+07
10	16	0.2417	0.5393	0.2231E+07
11	17	0.3645	1.096	0.3007E+07
12	18	0.7308	1.914	0.2619E+07
13	19	0.7650	3.103	0.4056E+07
14	20	0.7564	1.841	0.2434E+07
15	21	0.3763	1.059	0.2814E+07
16	22	0.4947	0.1401	0.2832E+06
17	23	0.000	0.000	0.000
18	24	0.3316	1.295	0.3905E+07
19	25	0.5051	1.227	0.2429E+07
20	26	0.5590	1.255	0.2245E+07

Mass Balance Summary (g/ha)

- (1) Period
- (2) Years
- (3) Applied/Formatted
- (4) Runoff
- (5) Volatilized
- (6) Decayed
- (7) Uptake

(8) Leached

(9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.1150	723.0	74.60	1.000	905.0
2	8	1000.	0.000	0.1290	935.0	108.0	1.100	862.0
3	9	1000.	0.000	0.1540	956.0	106.0	2.690	797.0
4	10	1000.	0.000	0.1970	837.0	106.0	3.120	851.0
5	11	1000.	0.000	0.8260E-01	931.0	108.0	6.840	805.0
6	12	1000.	0.000	0.1460	811.0	102.0	7.610	885.0
7	13	1000.	0.000	0.1680	879.0	132.0	11.30	863.0
8	14	1000.	0.000	0.1460	1000.	96.80	4.820	760.0
9	15	1000.	0.000	0.2260	798.0	87.10	1.500	874.0
10	16	1000.	0.000	0.2210	865.0	132.0	1.490	875.0
11	17	1000.	0.000	0.9790E-01	952.0	105.0	1.900	817.0
12	18	1000.	0.000	0.1760	909.0	106.0	1.480	801.0
13	19	1000.	0.000	0.1460	876.0	108.0	1.840	816.0
14	20	1000.	0.000	0.1490	816.0	93.80	1.330	904.0
15	21	1000.	0.000	0.8890E-01	990.0	94.70	1.870	817.0
16	22	1000.	0.000	0.1480	830.0	96.80	0.2070	890.0
17	23	1000.	0.000	0.1950	878.0	150.0	0.000	861.0
18	24	1000.	0.000	0.1010	951.0	91.80	2.750	816.0
19	25	1000.	0.000	0.9500E-01	889.0	109.0	1.270	817.0
20	26	1000.	0.000	0.1500	1000.	111.0	0.8790	705.0

At 1 Meter

1	7	1000.	0.000	0.1150	723.0	74.60	1.880	901.0
2	8	1000.	0.000	0.1290	935.0	108.0	1.270	857.0
3	9	1000.	0.000	0.1540	956.0	106.0	4.980	790.0
4	10	1000.	0.000	0.1970	837.0	106.0	12.30	835.0
5	11	1000.	0.000	0.8260E-01	931.0	108.0	12.10	784.0
6	12	1000.	0.000	0.1460	811.0	102.0	3.660	868.0
7	13	1000.	0.000	0.1680	879.0	132.0	2.580	854.0
8	14	1000.	0.000	0.1460	1000.	96.80	2.160	754.0
9	15	1000.	0.000	0.2260	798.0	87.10	1.340	868.0
10	16	1000.	0.000	0.2210	865.0	132.0	0.5390	870.0
11	17	1000.	0.000	0.9790E-01	952.0	105.0	1.100	813.0
12	18	1000.	0.000	0.1760	909.0	106.0	1.910	796.0
13	19	1000.	0.000	0.1460	876.0	108.0	3.100	810.0
14	20	1000.	0.000	0.1490	816.0	93.80	1.840	898.0
15	21	1000.	0.000	0.8890E-01	990.0	94.70	1.060	812.0
16	22	1000.	0.000	0.1480	830.0	96.80	0.1400	884.0
17	23	1000.	0.000	0.1950	878.0	150.0	0.000	856.0
18	24	1000.	0.000	0.1010	951.0	91.80	1.300	812.0
19	25	1000.	0.000	0.9500E-01	889.0	109.0	1.230	813.0
20	26	1000.	0.000	0.1500	1000.	111.0	1.260	700.0

Hydrology Summary (cm)

(1) Period

(2) Years

(3) Precipitation

(4) Runoff

(5) ET

(6) Leach - At 1 Meter

(7) Leach - Bottom of Soil Core

(8) Irrigation (cm)

1	7	99.32	0.000	61.90	36.44	36.33	0.000
2	8	88.06	0.000	64.06	23.91	23.73	0.000
3	9	117.0	0.000	66.39	52.07	51.94	0.000
4	10	110.5	0.000	61.70	48.82	48.73	0.000
5	11	109.9	0.000	64.66	45.37	45.26	0.000
6	12	90.37	0.000	62.15	28.15	28.06	0.000
7	13	109.5	0.000	63.76	46.04	45.91	0.000
8	14	93.30	0.000	58.01	35.51	35.35	0.000
9	15	83.59	0.000	66.01	17.72	17.59	0.000
10	16	82.02	0.000	59.67	22.31	22.20	0.000
11	17	92.82	0.000	62.98	30.07	29.96	0.000
12	18	89.33	0.000	63.41	26.19	26.07	0.000
13	19	100.4	0.000	59.93	40.56	40.48	0.000
14	20	83.24	0.000	58.89	24.34	24.22	0.000
15	21	91.97	0.000	63.93	28.14	28.03	0.000
16	22	31.22	0.000	40.46	2.832	2.832	0.000
17	23	31.45	0.000	26.82	0.000	0.000	0.000
18	24	110.9	0.000	64.94	39.05	38.63	0.000
19	25	88.69	0.000	64.35	24.29	24.18	0.000
20	26	94.67	0.000	72.42	22.45	22.30	0.000

8.1.7. PRZM N-CW-Z1.TAB File – Output for Okehampton

C:\fgrat\Projects\runmanual1 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

- (1) Period
- (2) Years
- (3) Conc. (ug/l)
- (4) Mass (g/ha)
- (5) Leachate (l/ha)

Bottom of Soil Core

1	7	4.555	22.25	0.4885E+07
2	8	3.031	4.841	0.1597E+07
3	9	1.441	6.395	0.4438E+07
4	10	2.358	7.276	0.3086E+07
5	11	2.228	10.51	0.4717E+07
6	12	3.175	15.19	0.4784E+07
7	13	3.063	18.99	0.6199E+07
8	14	1.987	6.092	0.3066E+07
9	15	1.584	3.948	0.2493E+07
10	16	1.934	10.51	0.5433E+07
11	17	2.474	6.410	0.2591E+07
12	18	1.812	9.105	0.5025E+07
13	19	4.913	26.84	0.5463E+07
14	20	4.735	20.14	0.4253E+07
15	21	1.851	6.630	0.3581E+07
16	22	1.207	5.205	0.4313E+07
17	23	4.584	28.30	0.6173E+07
18	24	3.510	16.86	0.4803E+07
19	25	2.211	10.13	0.4582E+07
20	26	4.119	21.31	0.5174E+07

At 1 Meter

1	7	3.523	17.21	0.4885E+07
2	8	1.325	2.116	0.1597E+07
3	9	1.594	7.072	0.4438E+07
4	10	2.390	7.374	0.3086E+07
5	11	2.294	10.82	0.4717E+07
6	12	3.926	18.78	0.4784E+07
7	13	2.497	15.48	0.6199E+07
8	14	1.407	4.313	0.3066E+07
9	15	2.014	5.021	0.2493E+07
10	16	2.082	11.31	0.5433E+07
11	17	2.107	5.460	0.2591E+07
12	18	1.903	9.563	0.5025E+07
13	19	6.462	35.30	0.5463E+07
14	20	2.591	11.02	0.4253E+07
15	21	1.529	5.477	0.3581E+07
16	22	1.416	6.108	0.4313E+07
17	23	5.637	34.80	0.6173E+07
18	24	2.578	12.38	0.4803E+07
19	25	2.061	9.443	0.4582E+07
20	26	5.388	27.88	0.5174E+07

Mass Balance Summary (g/ha)

- (1) Period
- (2) Years
- (3) Applied/Forced
- (4) Runoff
- (5) Volatilized
- (6) Decayed
- (7) Uptake
- (8) Leached
- (9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.2330	791.0	86.40	22.30	545.0
2	8	1000.	0.000	0.2170	937.0	102.0	4.840	500.0
3	9	1000.	0.000	0.4520	950.0	102.0	6.400	442.0
4	10	1000.	0.000	0.1940	793.0	123.0	7.280	518.0
5	11	1000.	0.000	0.2470	918.0	137.0	10.50	452.0
6	12	1000.	0.000	0.1390	809.0	125.0	15.20	503.0
7	13	1000.	0.000	0.1060	888.0	73.40	19.00	523.0
8	14	1000.	0.000	0.2140	937.0	126.0	6.090	453.0
9	15	1000.	0.000	0.2540	804.0	120.0	3.950	525.0
10	16	1000.	0.000	0.1750	966.0	100.0	10.50	448.0
11	17	1000.	0.000	0.4420	792.0	133.0	6.410	516.0
12	18	1000.	0.000	0.1680	955.0	86.00	9.110	466.0
13	19	1000.	0.000	0.3600	840.0	106.0	26.80	493.0

14	20	1000.	0.000	0.3250	883.0	122.0	20.10	468.0
15	21	1000.	0.000	0.3140	907.0	102.0	6.630	451.0
16	22	1000.	0.000	0.2460	869.0	78.90	5.200	498.0
17	23	1000.	0.000	0.9710E-01	855.0	71.60	28.30	543.0
18	24	1000.	0.000	0.1440	933.0	82.40	16.90	511.0
19	25	1000.	0.000	0.1820	834.0	93.60	10.10	573.0
20	26	1000.	0.000	0.2240	1010.	101.0	21.30	445.0
At 1 Meter								
1	7	1000.	0.000	0.2330	791.0	86.40	17.20	538.0
2	8	1000.	0.000	0.2170	937.0	102.0	2.120	497.0
3	9	1000.	0.000	0.4520	950.0	102.0	7.070	438.0
4	10	1000.	0.000	0.1940	793.0	123.0	7.370	514.0
5	11	1000.	0.000	0.2470	918.0	137.0	10.80	448.0
6	12	1000.	0.000	0.1390	809.0	125.0	18.80	495.0
7	13	1000.	0.000	0.1060	888.0	73.40	15.50	518.0
8	14	1000.	0.000	0.2140	937.0	126.0	4.310	450.0
9	15	1000.	0.000	0.2540	804.0	120.0	5.020	521.0
10	16	1000.	0.000	0.1750	966.0	100.0	11.30	443.0
11	17	1000.	0.000	0.4420	792.0	133.0	5.460	513.0
12	18	1000.	0.000	0.1680	955.0	86.00	9.560	462.0
13	19	1000.	0.000	0.3600	840.0	106.0	35.30	481.0
14	20	1000.	0.000	0.3250	883.0	122.0	11.00	464.0
15	21	1000.	0.000	0.3140	907.0	102.0	5.480	449.0
16	22	1000.	0.000	0.2460	869.0	78.90	6.110	495.0
17	23	1000.	0.000	0.9710E-01	855.0	71.60	34.80	533.0
18	24	1000.	0.000	0.1440	933.0	82.40	12.40	506.0
19	25	1000.	0.000	0.1820	834.0	93.60	9.440	569.0
20	26	1000.	0.000	0.2240	1010.	101.0	27.90	433.0

Hydrology Summary (cm)

- (1) Period
- (2) Years
- (3) Precipitation
- (4) Runoff
- (5) ET
- (6) Leach - At 1 Meter
- (7) Leach - Bottom of Soil Core
- (8) Irrigation (cm)

1	7	108.3	0.000	59.79	48.85	48.85	0.000
2	8	67.33	0.000	51.02	15.97	15.97	0.000
3	9	105.6	0.000	61.29	44.38	44.38	0.000
4	10	89.91	0.000	58.74	30.86	30.86	0.000
5	11	109.7	0.000	62.85	47.17	47.17	0.000
6	12	110.4	0.000	62.81	47.84	47.84	0.000
7	13	123.8	0.000	61.49	61.99	61.99	0.000
8	14	103.0	0.000	72.70	30.66	30.66	0.000
9	15	90.61	0.000	65.58	24.93	24.93	0.000
10	16	116.1	0.000	61.60	54.33	54.33	0.000
11	17	90.17	0.000	63.83	25.91	25.91	0.000
12	18	109.2	0.000	59.28	50.25	50.25	0.000
13	19	115.7	0.000	61.38	54.63	54.63	0.000
14	20	103.0	0.000	61.03	42.53	42.53	0.000
15	21	93.78	0.000	57.31	35.81	35.81	0.000
16	22	101.6	0.000	58.26	43.13	43.13	0.000
17	23	111.3	0.000	49.76	61.73	61.73	0.000
18	24	113.2	0.000	65.18	48.03	48.03	0.000
19	25	97.17	0.000	51.14	45.82	45.82	0.000
20	26	115.8	0.000	64.10	51.74	51.74	0.000

8.1.8. PRZM O-CW-Z1.TAB File – Output for Piacenza

C:\fgrat\Projects\runmanual1 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

- (1) Period
 - (2) Years
 - (3) Conc. (ug/l)
 - (4) Mass (g/ha)
 - (5) Leachate (l/ha)
- Bottom of Soil Core

1	7	0.8315E-01	0.3608	0.4339E+07
2	8	0.1539	1.045	0.6790E+07
3	9	7.103	66.84	0.9410E+07
4	10	5.771	51.18	0.8868E+07
5	11	14.53	121.3	0.8347E+07
6	12	7.599	24.21	0.3186E+07
7	13	1.690	8.769	0.5190E+07

8	14	0.7307	3.742	0.5121E+07
9	15	1.814	8.130	0.4483E+07
10	16	1.580	13.38	0.8466E+07
11	17	2.468	16.10	0.6523E+07
12	18	3.392	21.13	0.6230E+07
13	19	2.120	19.54	0.9215E+07
14	20	1.394	4.718	0.3384E+07
15	21	0.8849	3.684	0.4163E+07
16	22	0.3320	1.413	0.4256E+07
17	23	1.031	5.259	0.5103E+07
18	24	1.518	1.403	0.9241E+06
19	25	1.034	2.120	0.2050E+07
20	26	0.3456	1.125	0.3255E+07

At 1 Meter

1	7	0.8871E-01	0.3859	0.4350E+07
2	8	0.2199	1.497	0.6809E+07
3	9	9.663	91.01	0.9418E+07
4	10	4.229	37.54	0.8876E+07
5	11	16.29	136.2	0.8360E+07
6	12	2.150	6.868	0.3195E+07
7	13	0.2162	1.124	0.5199E+07
8	14	1.726	8.863	0.5135E+07
9	15	1.038	4.660	0.4491E+07
10	16	2.167	18.36	0.8474E+07
11	17	2.458	16.06	0.6535E+07
12	18	3.715	23.19	0.6242E+07
13	19	1.542	14.23	0.9226E+07
14	20	1.277	4.331	0.3391E+07
15	21	0.1397	0.5831	0.4174E+07
16	22	0.4995	2.134	0.4272E+07
17	23	1.589	8.136	0.5121E+07
18	24	0.2772	0.2591	0.9348E+06
19	25	0.000	-.2557E-01	0.2057E+07
20	26	0.1205E-01	0.3933E-01	0.3264E+07

Mass Balance Summary (g/ha)

- (1) Period
- (2) Years
- (3) Applied/Formed
- (4) Runoff
- (5) Volatilized
- (6) Decayed
- (7) Uptake
- (8) Leached
- (9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.1200	820.0	85.00	0.3610	680.0
2	8	1000.	0.000	0.1350	955.0	83.40	1.040	641.0
3	9	1000.	0.000	0.1360	886.0	49.90	66.80	638.0
4	10	1000.	0.000	0.1580	900.0	47.30	51.20	640.0
5	11	1000.	0.000	0.7740	763.0	69.70	121.0	685.0
6	12	1000.	0.000	0.4420	851.0	146.0	24.20	663.0
7	13	1000.	0.000	0.7800	896.0	96.30	8.770	662.0
8	14	1000.	0.000	0.2200	912.0	69.30	3.740	677.0
9	15	1000.	0.000	0.7490	949.0	120.0	8.130	598.0
10	16	1000.	0.000	0.9030E-01	876.0	62.10	13.40	647.0
11	17	1000.	0.000	0.9910E-01	886.0	92.30	16.10	653.0
12	18	1000.	0.000	0.2270	853.0	122.0	21.10	656.0
13	19	1000.	0.000	0.2410	928.0	98.90	19.50	609.0
14	20	1000.	0.000	0.1290	780.0	139.0	4.720	685.0
15	21	1000.	0.000	0.3760	904.0	244.0	3.680	533.0
16	22	1000.	0.000	0.4880	716.0	173.0	1.410	643.0
17	23	1000.	0.000	0.3420	862.0	138.0	5.260	637.0
18	24	1000.	0.000	0.2610	881.0	160.0	1.400	594.0
19	25	1000.	0.000	0.1770	829.0	127.0	2.120	636.0
20	26	1000.	0.000	0.2790	923.0	126.0	1.120	586.0

At 1 Meter

1	7	1000.	0.000	0.1200	820.0	85.00	0.3860	680.0
2	8	1000.	0.000	0.1350	955.0	83.40	1.500	640.0
3	9	1000.	0.000	0.1360	886.0	49.90	91.00	613.0
4	10	1000.	0.000	0.1580	900.0	47.30	37.50	628.0
5	11	1000.	0.000	0.7740	763.0	69.70	136.0	658.0
6	12	1000.	0.000	0.4420	851.0	146.0	6.870	654.0
7	13	1000.	0.000	0.7800	896.0	96.30	1.120	661.0
8	14	1000.	0.000	0.2200	912.0	69.30	8.860	670.0
9	15	1000.	0.000	0.7490	949.0	120.0	4.660	596.0
10	16	1000.	0.000	0.9030E-01	876.0	62.10	18.40	639.0

11	17	1000.	0.000	0.9910E-01	886.0	92.30	16.10	645.0
12	18	1000.	0.000	0.2270	853.0	122.0	23.20	646.0
13	19	1000.	0.000	0.2410	928.0	98.90	14.20	605.0
14	20	1000.	0.000	0.1290	780.0	139.0	4.330	681.0
15	21	1000.	0.000	0.3760	904.0	244.0	0.5830	532.0
16	22	1000.	0.000	0.4880	716.0	173.0	2.130	641.0
17	23	1000.	0.000	0.3420	862.0	138.0	8.140	632.0
18	24	1000.	0.000	0.2610	881.0	160.0	0.2590	590.0
19	25	1000.	0.000	0.1770	829.0	127.0	-.2560E-01	634.0
20	26	1000.	0.000	0.2790	923.0	126.0	0.3930E-01	585.0

Hydrology Summary (cm)

- (1) Period
- (2) Years
- (3) Precipitation
- (4) Runoff
- (5) ET
- (6) Leach - At 1 Meter
- (7) Leach - Bottom of Soil Core
- (8) Irrigation (cm)

1	7	92.42	0.000	50.52	43.50	43.39	0.000
2	8	117.6	0.000	48.23	68.09	67.90	0.000
3	9	156.3	0.000	62.58	94.18	94.10	0.000
4	10	140.0	0.000	50.89	88.76	88.68	0.000
5	11	140.4	0.000	56.97	83.60	83.47	0.000
6	12	101.8	0.000	70.47	31.95	31.86	0.000
7	13	111.0	0.000	58.56	51.99	51.90	0.000
8	14	106.8	0.000	56.10	51.35	51.21	0.000
9	15	113.1	0.000	69.08	44.91	44.83	0.000
10	16	150.8	0.000	65.03	84.74	84.66	0.000
11	17	123.5	0.000	58.04	65.35	65.23	0.000
12	18	130.1	0.000	67.85	62.42	62.30	0.000
13	19	153.2	0.000	61.02	92.26	92.15	0.000
14	20	103.1	0.000	73.51	33.91	33.84	0.000
15	21	112.3	0.000	67.00	41.74	41.63	0.000
16	22	95.19	0.000	52.02	42.72	42.56	0.000
17	23	107.3	0.000	57.71	51.21	51.03	0.000
18	24	66.14	0.000	56.71	9.348	9.241	0.000
19	25	86.41	0.000	64.68	20.57	20.50	0.000
20	26	92.32	0.000	59.77	32.64	32.55	0.000

8.1.9. PRZM P-CW-Z1.TAB File – Output for Porto

C:\fgrat\Projects\runmanuall of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

- (1) Period
- (2) Years
- (3) Conc. (ug/l)
- (4) Mass (g/ha)
- (5) Leachate (l/ha)

Bottom of Soil Core

1	7	0.2765	1.443	0.5219E+07
2	8	0.5258	2.269	0.4315E+07
3	9	0.7334	2.498	0.3406E+07
4	10	2.979	17.35	0.5825E+07
5	11	1.982	8.836	0.4458E+07
6	12	0.5784	1.963	0.3394E+07
7	13	0.3077	0.1250E-01	0.4062E+05
8	14	3.481	24.86	0.7142E+07
9	15	1.425	1.891	0.1327E+07
10	16	0.7099	3.035	0.4275E+07
11	17	0.7535	1.904	0.2527E+07
12	18	1.176	2.526	0.2148E+07
13	19	1.067	1.828	0.1714E+07
14	20	0.2845	0.5099	0.1792E+07
15	21	0.1028	0.4185E-01	0.4070E+06
16	22	0.4910E-01	0.7282E-01	0.1483E+07
17	23	0.2201E-01	0.2061E-01	0.9364E+06
18	24	0.5389E-01	0.2524	0.4684E+07
19	25	0.2438	0.8666	0.3554E+07
20	26	0.2624	1.312	0.5000E+07

At 1 Meter

1	7	0.3840	2.006	0.5224E+07
2	8	0.6077	2.629	0.4326E+07
3	9	0.6767	2.309	0.3412E+07
4	10	3.575	20.84	0.5829E+07

5	11	1.241	5.544	0.4468E+07
6	12	0.3894	1.324	0.3400E+07
7	13	0.000	-.2442E-03	0.4788E+05
8	14	3.702	26.47	0.7151E+07
9	15	0.5975	0.7929	0.1327E+07
10	16	0.7440	3.191	0.4289E+07
11	17	0.8460	2.143	0.2533E+07
12	18	1.377	2.957	0.2148E+07
13	19	0.3459	0.5984	0.1730E+07
14	20	0.9300E-01	0.1673	0.1799E+07
15	21	0.4538E-01	0.1847E-01	0.4070E+06
16	22	0.1384E-01	0.2075E-01	0.1499E+07
17	23	0.2229E-01	0.2103E-01	0.9436E+06
18	24	0.6707E-01	0.3147	0.4692E+07
19	25	0.4455	1.587	0.3562E+07
20	26	0.1111	0.5564	0.5006E+07

Mass Balance Summary (g/ha)

- (1) Period
 (2) Years
 (3) Applied/Formed
 (4) Runoff
 (5) Volatilized
 (6) Decayed
 (7) Uptake
 (8) Leached
 (9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.8700E-01	887.0	121.0	1.440	907.0
2	8	1000.	0.000	0.9350E-01	899.0	108.0	2.270	897.0
3	9	1000.	0.000	0.1250	875.0	89.00	2.500	930.0
4	10	1000.	0.000	0.1570	908.0	102.0	17.30	903.0
5	11	1000.	0.000	0.2010	968.0	118.0	8.840	808.0
6	12	1000.	0.000	0.1030	829.0	116.0	1.960	860.0
7	13	1000.	0.000	0.2710	770.0	173.0	0.1250E-01	918.0
8	14	1000.	0.000	0.8000E-01	915.0	102.0	24.90	875.0
9	15	1000.	0.000	0.2550	874.0	140.0	1.890	858.0
10	16	1000.	0.000	0.4960E-01	840.0	90.30	3.030	925.0
11	17	1000.	0.000	0.1920	857.0	112.0	1.900	954.0
12	18	1000.	0.000	0.1990	919.0	123.0	2.530	908.0
13	19	1000.	0.000	0.7660E-01	947.0	127.0	1.830	832.0
14	20	1000.	0.000	0.6430E-01	834.0	106.0	0.5100	891.0
15	21	1000.	0.000	0.2880	845.0	164.0	0.4180E-01	882.0
16	22	1000.	0.000	0.4700	789.0	235.0	0.7280E-01	858.0
17	23	1000.	0.000	0.3070	854.0	184.0	0.2060E-01	819.0
18	24	1000.	0.000	0.3060	810.0	215.0	0.2520	793.0
19	25	1000.	0.000	0.1410	864.0	129.0	0.8670	799.0
20	26	1000.	0.000	0.2270	726.0	155.0	1.310	916.0

At 1 Meter

1	7	1000.	0.000	0.8700E-01	887.0	121.0	2.010	906.0
2	8	1000.	0.000	0.9350E-01	899.0	108.0	2.630	896.0
3	9	1000.	0.000	0.1250	875.0	89.00	2.310	930.0
4	10	1000.	0.000	0.1570	908.0	102.0	20.80	898.0
5	11	1000.	0.000	0.2010	968.0	118.0	5.540	807.0
6	12	1000.	0.000	0.1030	829.0	116.0	1.320	860.0
7	13	1000.	0.000	0.2710	770.0	173.0	-.2440E-03	917.0
8	14	1000.	0.000	0.8000E-01	915.0	102.0	26.50	873.0
9	15	1000.	0.000	0.2550	874.0	140.0	0.7930	858.0
10	16	1000.	0.000	0.4960E-01	840.0	90.30	3.190	924.0
11	17	1000.	0.000	0.1920	857.0	112.0	2.140	953.0
12	18	1000.	0.000	0.1990	919.0	123.0	2.960	907.0
13	19	1000.	0.000	0.7660E-01	947.0	127.0	0.5980	832.0
14	20	1000.	0.000	0.6430E-01	834.0	106.0	0.1670	891.0
15	21	1000.	0.000	0.2880	845.0	164.0	0.1850E-01	882.0
16	22	1000.	0.000	0.4700	789.0	235.0	0.2070E-01	858.0
17	23	1000.	0.000	0.3070	854.0	184.0	0.2100E-01	819.0
18	24	1000.	0.000	0.3060	810.0	215.0	0.3150	793.0
19	25	1000.	0.000	0.1410	864.0	129.0	1.590	798.0
20	26	1000.	0.000	0.2270	726.0	155.0	0.5560	916.0

Hydrology Summary (cm)

- (1) Period
 (2) Years
 (3) Precipitation
 (4) Runoff
 (5) ET

(6) Leach - At 1 Meter							
(7) Leach - Bottom of Soil Core							
(8) Irrigation (cm)							
1	7	111.9	0.000	59.84	52.24	52.19	0.000
2	8	100.3	0.000	56.79	43.26	43.15	0.000
3	9	88.93	0.000	55.38	34.12	34.06	0.000
4	10	110.1	0.000	51.45	58.29	58.25	0.000
5	11	94.80	0.000	50.24	44.68	44.58	0.000
6	12	91.05	0.000	57.52	34.00	33.94	0.000
7	13	60.58	0.000	59.66	0.4788	0.4062	0.000
8	14	128.9	0.000	57.69	71.51	71.42	0.000
9	15	57.44	0.000	46.70	13.27	13.27	0.000
10	16	99.38	0.000	53.94	42.89	42.75	0.000
11	17	70.10	0.000	44.77	25.33	25.27	0.000
12	18	68.62	0.000	48.80	21.48	21.48	0.000
13	19	69.28	0.000	50.84	17.30	17.14	0.000
14	20	68.40	0.000	51.32	17.99	17.92	0.000
15	21	58.72	0.000	56.97	4.070	4.070	0.000
16	22	67.85	0.000	50.14	14.99	14.83	0.000
17	23	57.34	0.000	48.66	9.436	9.364	0.000
18	24	102.6	0.000	55.22	46.92	46.84	0.000
19	25	97.53	0.000	61.24	35.62	35.54	0.000
20	26	110.7	0.000	60.77	50.06	50.00	0.000

8.1.10. PRZM S-CW-Z1.TAB File – Output for Sevilla

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Concentration Summary

(1) Period

(2) Years

(3) Conc. (ug/l)

(4) Mass (g/ha)

(5) Leachate (l/ha)

Bottom of Soil Core

1	7	0.1649E-04	0.1262E-04	0.7651E+06
2	8	0.6616E-03	0.1711E-02	0.2586E+07
3	9	0.5705E-02	0.1367E-01	0.2396E+07
4	10	0.1220E-01	0.1292E-01	0.1059E+07
5	11	0.1855E-01	0.5942E-01	0.3204E+07
6	12	0.2282E-01	0.5953E-02	0.2609E+06
7	13	0.2371E-01	0.1126E-01	0.4749E+06
8	14	0.2544E-01	0.1675E-01	0.6584E+06
9	15	0.3423E-01	0.9406E-01	0.2748E+07
10	16	0.4660E-01	0.6426E-01	0.1379E+07
11	17	0.5227E-01	0.8671E-01	0.1659E+07
12	18	0.5234E-01	0.2949E-01	0.5634E+06
13	19	0.4549E-01	0.9904E-01	0.2177E+07
14	20	0.000	0.000	0.000
15	21	0.3137E-01	0.1054	0.3360E+07
16	22	0.2045E-01	0.1837E-01	0.8984E+06
17	23	0.000	0.000	0.000
18	24	0.000	0.000	0.000
19	25	0.000	0.000	0.000
20	26	0.000	0.000	0.000

At 1 Meter

1	7	0.000	-.8036E-02	0.7651E+06
2	8	0.000	-.4196E-03	0.2586E+07
3	9	0.6014E-01	0.1441	0.2396E+07
4	10	0.5013E-01	0.5309E-01	0.1059E+07
5	11	0.1076	0.3446	0.3204E+07
6	12	0.000	-.6828E-02	0.2609E+06
7	13	0.000	-.7882E-02	0.4749E+06
8	14	0.000	-.2643E-02	0.6584E+06
9	15	0.000	-.2830E-02	0.2748E+07
10	16	0.000	-.6217E-03	0.1379E+07
11	17	0.4996E-03	0.8288E-03	0.1659E+07
12	18	0.2318E-03	0.1306E-03	0.5634E+06
13	19	0.000	-.5099E-04	0.2177E+07
14	20	0.000	0.000	0.000
15	21	0.3488E-01	0.1172	0.3360E+07
16	22	0.6385E-01	0.5736E-01	0.8984E+06
17	23	0.000	0.000	0.000
18	24	0.000	0.000	0.000
19	25	0.000	0.000	0.000
20	26	0.000	0.000	0.000

Mass Balance Summary (g/ha)

- (1) Period
- (2) Years
- (3) Applied/Formed
- (4) Runoff
- (5) Volatilized
- (6) Decayed
- (7) Uptake
- (8) Leached
- (9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.4130	783.0	192.0	0.1260E-04	580.0
2	8	1000.	0.000	0.7950	833.0	200.0	0.1710E-02	546.0
3	9	1000.	0.000	0.1690	912.0	106.0	0.1370E-01	528.0
4	10	1000.	0.000	0.6100	885.0	145.0	0.1290E-01	497.0
5	11	1000.	0.000	1.950	704.0	81.90	0.5940E-01	710.0
6	12	1000.	0.000	3.170	681.0	202.0	0.5950E-02	824.0
7	13	1000.	0.000	4.780	1030.	231.0	0.1130E-01	561.0
8	14	1000.	0.000	0.8790	729.0	296.0	0.1680E-01	535.0
9	15	1000.	0.000	2.160	739.0	205.0	0.9410E-01	589.0
10	16	1000.	0.000	0.2860	816.0	244.0	0.6430E-01	528.0
11	17	1000.	0.000	0.8950	770.0	246.0	0.8670E-01	511.0
12	18	1000.	0.000	1.400	663.0	99.70	0.2950E-01	747.0
13	19	1000.	0.000	0.4060	996.0	240.0	0.9900E-01	510.0
14	20	1000.	0.000	0.9410	667.0	201.0	0.000	641.0
15	21	1000.	0.000	0.2770	948.0	162.0	0.1050	530.0
16	22	1000.	0.000	0.5300	856.0	122.0	0.1840E-01	552.0
17	23	1000.	0.000	0.2380	885.0	166.0	0.000	501.0
18	24	1000.	0.000	0.9860	726.0	194.0	0.000	580.0
19	25	1000.	0.000	0.8240	646.0	190.0	0.000	743.0
20	26	1000.	0.000	1.500	861.0	326.0	0.000	555.0

At 1 Meter

1	7	1000.	0.000	0.4130	783.0	192.0	-.8040E-02	580.0
2	8	1000.	0.000	0.7950	833.0	200.0	-.4200E-03	546.0
3	9	1000.	0.000	0.1690	912.0	106.0	0.1440	528.0
4	10	1000.	0.000	0.6100	885.0	145.0	0.5310E-01	497.0
5	11	1000.	0.000	1.950	704.0	81.90	0.3450	709.0
6	12	1000.	0.000	3.170	681.0	202.0	-.6830E-02	823.0
7	13	1000.	0.000	4.780	1030.	231.0	-.7880E-02	560.0
8	14	1000.	0.000	0.8790	729.0	296.0	-.2640E-02	535.0
9	15	1000.	0.000	2.160	739.0	205.0	-.2830E-02	588.0
10	16	1000.	0.000	0.2860	816.0	244.0	-.6220E-03	528.0
11	17	1000.	0.000	0.8950	770.0	246.0	0.8290E-03	511.0
12	18	1000.	0.000	1.400	663.0	99.70	0.1310E-03	747.0
13	19	1000.	0.000	0.4060	996.0	240.0	-.5100E-04	509.0
14	20	1000.	0.000	0.9410	667.0	201.0	0.000	640.0
15	21	1000.	0.000	0.2770	948.0	162.0	0.1170	530.0
16	22	1000.	0.000	0.5300	856.0	122.0	0.5740E-01	552.0
17	23	1000.	0.000	0.2380	885.0	166.0	0.000	501.0
18	24	1000.	0.000	0.9860	726.0	194.0	0.000	580.0
19	25	1000.	0.000	0.8240	646.0	190.0	0.000	742.0
20	26	1000.	0.000	1.500	861.0	326.0	0.000	554.0

Hydrology Summary (cm)

- (1) Period
- (2) Years
- (3) Precipitation
- (4) Runoff
- (5) ET
- (6) Leach - At 1 Meter
- (7) Leach - Bottom of Soil Core
- (8) Irrigation (cm)

1	7	47.23	0.000	36.51	7.651	7.651	0.000
2	8	84.89	0.000	57.18	25.86	25.86	0.000
3	9	59.45	0.000	35.80	23.96	23.96	0.000
4	10	57.28	0.000	46.38	10.59	10.59	0.000
5	11	68.07	0.000	39.05	32.04	32.04	0.000
6	12	37.87	0.000	36.06	2.609	2.609	0.000
7	13	34.89	0.000	26.33	4.749	4.749	0.000
8	14	38.69	0.000	34.42	6.584	6.584	0.000
9	15	57.80	0.000	29.98	27.48	27.48	0.000
10	16	58.96	0.000	45.99	13.79	13.79	0.000
11	17	58.31	0.000	39.13	16.59	16.59	0.000
12	18	29.55	0.000	32.91	5.634	5.634	0.000
13	19	67.53	0.000	38.48	21.77	21.77	0.000
14	20	26.70	0.000	34.11	0.000	0.000	0.000
15	21	80.84	0.000	37.92	33.60	33.60	0.000

16	22	43.43	0.000	35.57	8.984	8.984	0.000
17	23	36.99	0.000	39.12	0.000	0.000	0.000
18	24	37.78	0.000	39.78	0.000	0.000	0.000
19	25	31.63	0.000	32.92	0.000	0.000	0.000
20	26	27.72	0.000	26.10	0.000	0.000	0.000

8.1.11. PRZM T-CW-Z1.TAB File – Output for Thiva

C:\fgrat\Projects\runmanuall of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

(1) Period

(2) Years

(3) Conc. (ug/l)

(4) Mass (g/ha)

(5) Leachate (l/ha)

Bottom of Soil Core

1	7	0.6417E-06	0.1012E-05	0.1577E+07
2	8	0.3690E-04	0.6635E-04	0.1798E+07
3	9	0.1299E-03	0.1148E-04	0.8836E+05
4	10	0.4771E-03	0.6441E-03	0.1350E+07
5	11	0.3549E-02	0.6555E-02	0.1847E+07
6	12	0.9991E-02	0.1166E-01	0.1167E+07
7	13	0.1547E-01	0.2497E-01	0.1614E+07
8	14	0.1639E-01	0.1157E-01	0.7060E+06
9	15	0.1358E-01	0.3138E-01	0.2310E+07
10	16	0.1025E-01	0.1042E-01	0.1017E+07
11	17	0.8623E-02	0.9261E-02	0.1074E+07
12	18	0.7424E-02	0.8552E-02	0.1152E+07
13	19	0.7110E-02	0.4741E-02	0.6668E+06
14	20	0.1144E-01	0.2570E-01	0.2247E+07
15	21	0.000	0.000	0.000
16	22	0.000	0.000	0.000
17	23	0.2087E-01	0.1837E-01	0.8801E+06
18	24	0.000	0.000	0.000
19	25	0.000	0.000	0.000
20	26	0.2347E-01	0.1837E-02	0.7827E+05

At 1 Meter

1	7	0.1353E-01	0.2134E-01	0.1577E+07
2	8	0.4753E-01	0.8546E-01	0.1798E+07
3	9	0.8278E-02	0.7314E-03	0.8836E+05
4	10	0.2206E-03	0.2978E-03	0.1350E+07
5	11	0.2772E-02	0.5120E-02	0.1847E+07
6	12	0.7479E-02	0.8728E-02	0.1167E+07
7	13	0.2803E-02	0.4524E-02	0.1614E+07
8	14	0.1354E-01	0.9560E-02	0.7060E+06
9	15	0.3073E-02	0.7099E-02	0.2310E+07
10	16	0.7841E-01	0.7974E-01	0.1017E+07
11	17	0.5426E-01	0.5827E-01	0.1074E+07
12	18	0.2582E-01	0.2974E-01	0.1152E+07
13	19	0.000	-.6846E-03	0.6668E+06
14	20	0.6569E-02	0.1476E-01	0.2247E+07
15	21	0.000	0.000	0.000
16	22	0.000	0.000	0.000
17	23	0.3112E-02	0.2739E-02	0.8801E+06
18	24	0.000	0.000	0.000
19	25	0.000	0.000	0.000
20	26	0.000	-.1621E-03	0.7827E+05

Mass Balance Summary (g/ha)

(1) Period

(2) Years

(3) Applied/Formed

(4) Runoff

(5) Volatilized

(6) Decayed

(7) Uptake

(8) Leached

(9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.4050	855.0	203.0	0.1010E-05	589.0
2	8	1000.	0.000	0.1150	843.0	168.0	0.6640E-04	577.0
3	9	1000.	0.000	0.2560	785.0	196.0	0.1150E-04	596.0
4	10	1000.	0.000	0.1130	855.0	163.0	0.6440E-03	577.0
5	11	1000.	0.000	0.5850	780.0	267.0	0.6550E-02	531.0
6	12	1000.	0.000	0.1730	772.0	190.0	0.1170E-01	568.0
7	13	1000.	0.000	0.1400	843.0	141.0	0.2500E-01	584.0

8	14	1000.	0.000	0.1930	837.0	193.0	0.1160E-01	554.0
9	15	1000.	0.000	0.1170	785.0	123.0	0.3140E-01	646.0
10	16	1000.	0.000	0.5990	826.0	212.0	0.1040E-01	607.0
11	17	1000.	0.000	0.7500	788.0	258.0	0.9260E-02	560.0
12	18	1000.	0.000	0.9720	708.0	161.0	0.8550E-02	690.0
13	19	1000.	0.000	0.2600	898.0	209.0	0.4740E-02	583.0
14	20	1000.	0.000	0.4080	790.0	204.0	0.2570E-01	588.0
15	21	1000.	0.000	0.2390	752.0	182.0	0.000	654.0
16	22	1000.	0.000	0.2500	867.0	157.0	0.000	630.0
17	23	1000.	0.000	0.1970	794.0	154.0	0.1840E-01	682.0
18	24	1000.	0.000	0.3020	807.0	179.0	0.000	695.0
19	25	1000.	0.000	0.6750	838.0	235.0	0.000	621.0
20	26	1000.	0.000	0.4330	773.0	200.0	0.1840E-02	647.0
At 1 Meter								
1	7	1000.	0.000	0.4050	855.0	203.0	0.2130E-01	589.0
2	8	1000.	0.000	0.1150	843.0	168.0	0.8550E-01	577.0
3	9	1000.	0.000	0.2560	785.0	196.0	0.7310E-03	596.0
4	10	1000.	0.000	0.1130	855.0	163.0	0.2980E-03	577.0
5	11	1000.	0.000	0.5850	780.0	267.0	0.5120E-02	531.0
6	12	1000.	0.000	0.1730	772.0	190.0	0.8730E-02	568.0
7	13	1000.	0.000	0.1400	843.0	141.0	0.4520E-02	584.0
8	14	1000.	0.000	0.1930	837.0	193.0	0.9560E-02	554.0
9	15	1000.	0.000	0.1170	785.0	123.0	0.7100E-02	646.0
10	16	1000.	0.000	0.5990	826.0	212.0	0.7970E-01	607.0
11	17	1000.	0.000	0.7500	788.0	258.0	0.5830E-01	560.0
12	18	1000.	0.000	0.9720	708.0	161.0	0.2970E-01	690.0
13	19	1000.	0.000	0.2600	898.0	209.0	-.6850E-03	583.0
14	20	1000.	0.000	0.4080	790.0	204.0	0.1480E-01	588.0
15	21	1000.	0.000	0.2390	752.0	182.0	0.000	654.0
16	22	1000.	0.000	0.2500	867.0	157.0	0.000	630.0
17	23	1000.	0.000	0.1970	794.0	154.0	0.2740E-02	682.0
18	24	1000.	0.000	0.3020	807.0	179.0	0.000	695.0
19	25	1000.	0.000	0.6750	838.0	235.0	0.000	621.0
20	26	1000.	0.000	0.4330	773.0	200.0	-.1620E-03	647.0

Hydrology Summary (cm)

(1) Period

(2) Years

(3) Precipitation

(4) Runoff

(5) ET

(6) Leach - At 1 Meter

(7) Leach - Bottom of Soil Core

(8) Irrigation (cm)

1	7	65.71	0.000	43.10	15.77	15.77	0.000
2	8	65.05	0.000	46.57	17.98	17.98	0.000
3	9	32.13	0.000	36.20	0.8836	0.8836	0.000
4	10	65.05	0.000	46.60	13.50	13.50	0.000
5	11	69.68	0.000	50.58	18.47	18.47	0.000
6	12	60.14	0.000	51.37	11.67	11.67	0.000
7	13	62.25	0.000	43.56	16.14	16.14	0.000
8	14	55.60	0.000	48.48	7.060	7.060	0.000
9	15	64.73	0.000	42.18	23.10	23.10	0.000
10	16	44.90	0.000	41.09	10.17	10.17	0.000
11	17	56.67	0.000	41.89	10.74	10.74	0.000
12	18	57.10	0.000	42.91	11.52	11.52	0.000
13	19	52.38	0.000	46.50	6.668	6.668	0.000
14	20	65.91	0.000	43.28	22.47	22.47	0.000
15	21	22.81	0.000	31.72	0.000	0.000	0.000
16	22	32.18	0.000	23.02	0.000	0.000	0.000
17	23	54.21	0.000	46.61	8.801	8.801	0.000
18	24	17.88	0.000	27.84	0.000	0.000	0.000
19	25	24.21	0.000	16.57	0.000	0.000	0.000
20	26	31.47	0.000	34.25	0.7827	0.7827	0.000

8.2. Example simulations Set B**8.2.1. PRZM MASTER.FPJ File**

Project File Created: 2009- 9-17, 15:14: 7
 FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)
 Parent Compound: FOCUS dummy D

PRZM3.21 beta
 Crop: Cereals (Winter)

CROP : 7 1

```

SCENARIO      : 111111111
ROTATION      : 1
RELATIONSHIP  : 1
CHEMICAL      : 1 0010111
  Chemical Name: FOCUS dummy D
  Molecular Wgt: 300.000
  Plant Upt Fct: 0.500
  Part Cff Mth : 1
  Part Cff Fct : 60.000
  Freund Exp   : 0.900
  Vapor Pres   : 0.1000E+00
  Solubility   : 0.9000E+02
  Degr. PH1    : 15.400
  Degr. PH2    : 0.000
  % Degr. PH1  : 0.000      0.000      0.000
  % Degr. PH2  : 0.000      0.000      0.000
  Bi-Phase     : 0
  Q10 FAC      : 2.580
  Q10 Temp     : 20.000
  Moisture Exp  : 0.700
  Moisture Cnt : 100.000
  Moisture Type: 2          2          2          1
  Foliar 1/2   : 0.000
  Foliar Wash. : 0.000
APPLICATION    : 122
  Days Rel     : -1
  Day          : -1
  Month        : 0
  CAM          : 1
  Depi         : 4.000
  Rate         : 1.0000
  Drift        : 0.000
  Eff          : 100.000
AGING FACTORS :
  Chemical 1   : 0          0          0          0          0          0          1.0000      1.0000
1.0000 1.0000 1.0000 0.3000 0.0100
  Chemical 2   : 0          0          0          0          0          0          1.0000      1.0000
1.0000 1.0000 1.0000 0.0000 0.0000
  Chemical 3   : 0          0          0          0          0          0          1.0000      1.0000
1.0000 1.0000 1.0000 0.0000 0.0000

```

8.2.2. PRZM CNC-80.ANN Result Summary File

```

PRZM: Pesticide concentration (80th percentile)
Pesticide      FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)      9
Precipitation (mm)
Irrigation     (mm)
Runoff         (mm)
ET             (mm)
Percolate 1m   (mm)
Percolate (bottom of core) (mm)
Concentration at 1m (up to 3) (ug/L)
FOCUS dummy D  C  0.6484E+03  0.0000E+00  0.0000E+00  0.5061E+03  0.1423E+03  0.1423E+03  0.1604E-01
FOCUS dummy D  H  0.7865E+03  0.0000E+00  0.0000E+00  0.5209E+03  0.2666E+03  0.2656E+03  0.1469E+01
FOCUS dummy D  J  0.6502E+03  0.0000E+00  0.0000E+00  0.4363E+03  0.2139E+03  0.2139E+03  0.3165E+00
FOCUS dummy D  K  0.8991E+03  0.0000E+00  0.0000E+00  0.6032E+03  0.2971E+03  0.2959E+03  0.3032E+00
FOCUS dummy D  N  0.1038E+04  0.0000E+00  0.0000E+00  0.6046E+03  0.4333E+03  0.4333E+03  0.1547E+01
FOCUS dummy D  P  0.8573E+03  0.0000E+00  0.0000E+00  0.5390E+03  0.3190E+03  0.3182E+03  0.7462E+00
FOCUS dummy D  O  0.1150E+04  0.0000E+00  0.0000E+00  0.6034E+03  0.5476E+03  0.5465E+03  0.1645E+01
FOCUS dummy D  S  0.4928E+03  0.0000E+00  0.0000E+00  0.3719E+03  0.1209E+03  0.1209E+03  0.3323E-01
FOCUS dummy D  T  0.5000E+03  0.0000E+00  0.0000E+00  0.4022E+03  0.9786E+02  0.9786E+02  0.1157E-01

```

8.2.3. PRZM C-CW-Z1.TAB File – Output for Châteaudun

```

C:\fgrat\Projects\runmanual2 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)
Concentration Summary
(1) Period
(2) Years
(3) Conc. (ug/l)
(4) Mass (g/ha)
(5) Leachate (l/ha)
Bottom of Soil Core
1 7 0.6756E-12 0.1191E-11 0.1763E+07
2 8 0.1987E-10 0.1533E-10 0.7717E+06
3 9 0.1275E-08 0.2319E-08 0.1819E+07

```

4	10	0.8514E-07	0.1913E-06	0.2247E+07
5	11	0.1801E-05	0.4619E-05	0.2564E+07
6	12	0.1116E-04	0.2299E-04	0.2060E+07
7	13	0.5648E-04	0.1316E-03	0.2330E+07
8	14	0.3200E-03	0.7216E-03	0.2255E+07
9	15	0.1053E-02	0.1300E-02	0.1235E+07
10	16	0.3186E-02	0.7500E-02	0.2354E+07
11	17	0.6568E-02	0.5769E-02	0.8783E+06
12	18	0.9526E-02	0.1025E-01	0.1076E+07
13	19	0.1507E-01	0.2597E-01	0.1723E+07
14	20	0.2152E-01	0.3850E-01	0.1789E+07
15	21	0.2393E-01	0.1347E-01	0.5630E+06
16	22	0.2449E-01	0.4862E-02	0.1985E+06
17	23	0.2506E-01	0.1244E-01	0.4965E+06
18	24	0.2566E-01	0.1878E-01	0.7318E+06
19	25	0.2588E-01	0.1871E-01	0.7229E+06
20	26	0.2566E-01	0.2268E-01	0.8838E+06

At 1 Meter

1	7	0.3088E-03	0.5445E-03	0.1763E+07
2	8	0.2999E-03	0.2314E-03	0.7717E+06
3	9	0.6223E-03	0.1132E-02	0.1819E+07
4	10	0.9978E-02	0.2242E-01	0.2247E+07
5	11	0.3626E-01	0.9298E-01	0.2564E+07
6	12	0.5723E-01	0.1179	0.2060E+07
7	13	0.3653E-01	0.8512E-01	0.2330E+07
8	14	0.1238E-01	0.2791E-01	0.2255E+07
9	15	0.1966E-01	0.2428E-01	0.1235E+07
10	16	0.5438E-02	0.1280E-01	0.2354E+07
11	17	0.1242E-01	0.1091E-01	0.8783E+06
12	18	0.2586E-02	0.2783E-02	0.1076E+07
13	19	0.9675E-03	0.1667E-02	0.1723E+07
14	20	0.4629E-02	0.8282E-02	0.1789E+07
15	21	0.3179E-02	0.1790E-02	0.5630E+06
16	22	0.000	-0.1500E-03	0.1985E+06
17	23	0.000	-0.5718E-04	0.4965E+06
18	24	0.000	-0.1457E-03	0.7318E+06
19	25	0.000	-0.3441E-04	0.7229E+06
20	26	0.3552E-03	0.3139E-03	0.8838E+06

Mass Balance Summary (g/ha)

- (1) Period
- (2) Years
- (3) Applied/Formed
- (4) Runoff
- (5) Volatilized
- (6) Decayed
- (7) Uptake
- (8) Leached
- (9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.3740	751.0	99.10	0.1190E-11	572.0
2	8	1000.	0.000	0.2230	916.0	103.0	0.1530E-10	547.0
3	9	1000.	0.000	0.3510	965.0	133.0	0.2320E-08	435.0
4	10	1000.	0.000	0.4510	831.0	108.0	0.1910E-06	501.0
5	11	1000.	0.000	0.1800	919.0	112.0	0.4620E-05	464.0
6	12	1000.	0.000	0.3500	816.0	145.0	0.2300E-04	510.0
7	13	1000.	0.000	0.1420	891.0	119.0	0.1320E-03	497.0
8	14	1000.	0.000	0.3120	921.0	117.0	0.7220E-03	458.0
9	15	1000.	0.000	0.2800	824.0	82.40	0.1300E-02	556.0
10	16	1000.	0.000	0.2640	983.0	128.0	0.7500E-02	436.0
11	17	1000.	0.000	0.3590	773.0	121.0	0.5770E-02	550.0
12	18	1000.	0.000	0.2380	954.0	145.0	0.1030E-01	440.0
13	19	1000.	0.000	0.2360	839.0	106.0	0.2600E-01	504.0
14	20	1000.	0.000	0.3520	905.0	106.0	0.3850E-01	490.0
15	21	1000.	0.000	0.4500	937.0	102.0	0.1350E-01	448.0
16	22	1000.	0.000	0.1330	841.0	87.60	0.4860E-02	530.0
17	23	1000.	0.000	0.2160	850.0	120.0	0.1240E-01	562.0
18	24	1000.	0.000	0.1820	948.0	121.0	0.1880E-01	484.0
19	25	1000.	0.000	0.4980	790.0	136.0	0.1870E-01	561.0
20	26	1000.	0.000	0.3070	1010.	140.0	0.2270E-01	399.0

At 1 Meter

1	7	1000.	0.000	0.3740	751.0	99.10	0.5440E-03	572.0
2	8	1000.	0.000	0.2230	916.0	103.0	0.2310E-03	547.0
3	9	1000.	0.000	0.3510	965.0	133.0	0.1130E-02	435.0
4	10	1000.	0.000	0.4510	831.0	108.0	0.2240E-01	501.0
5	11	1000.	0.000	0.1800	919.0	112.0	0.9300E-01	464.0
6	12	1000.	0.000	0.3500	816.0	145.0	0.1180	510.0

7	13	1000.	0.000	0.1420	891.0	119.0	0.8510E-01	497.0
8	14	1000.	0.000	0.3120	921.0	117.0	0.2790E-01	457.0
9	15	1000.	0.000	0.2800	824.0	82.40	0.2430E-01	556.0
10	16	1000.	0.000	0.2640	983.0	128.0	0.1280E-01	436.0
11	17	1000.	0.000	0.3590	773.0	121.0	0.1090E-01	550.0
12	18	1000.	0.000	0.2380	954.0	145.0	0.2780E-02	439.0
13	19	1000.	0.000	0.2360	839.0	106.0	0.1670E-02	503.0
14	20	1000.	0.000	0.3520	905.0	106.0	0.8280E-02	489.0
15	21	1000.	0.000	0.4500	937.0	102.0	0.1790E-02	448.0
16	22	1000.	0.000	0.1330	841.0	87.60	-.1500E-03	530.0
17	23	1000.	0.000	0.2160	850.0	120.0	-.5720E-04	562.0
18	24	1000.	0.000	0.1820	948.0	121.0	-.1460E-03	484.0
19	25	1000.	0.000	0.4980	790.0	136.0	-.3440E-04	560.0
20	26	1000.	0.000	0.3070	1010.	140.0	0.3140E-03	399.0

Hydrology Summary (cm)

- (1) Period
- (2) Years
- (3) Precipitation
- (4) Runoff
- (5) ET
- (6) Leach - At 1 Meter
- (7) Leach - Bottom of Soil Core
- (8) Irrigation (cm)

1	7	73.25	0.000	55.79	17.63	17.63	0.000
2	8	47.33	0.000	39.32	7.717	7.717	0.000
3	9	75.86	0.000	57.71	18.19	18.19	0.000
4	10	70.63	0.000	48.11	22.47	22.47	0.000
5	11	78.66	0.000	53.06	25.64	25.64	0.000
6	12	69.03	0.000	48.39	20.60	20.60	0.000
7	13	80.47	0.000	57.17	23.30	23.30	0.000
8	14	72.77	0.000	50.51	22.55	22.55	0.000
9	15	66.83	0.000	56.97	12.35	12.35	0.000
10	16	84.61	0.000	58.38	23.54	23.54	0.000
11	17	59.36	0.000	53.84	8.783	8.783	0.000
12	18	63.40	0.000	49.30	10.76	10.76	0.000
13	19	65.77	0.000	48.74	17.23	17.23	0.000
14	20	69.51	0.000	51.61	17.89	17.89	0.000
15	21	52.27	0.000	47.27	5.630	5.630	0.000
16	22	41.33	0.000	38.52	1.985	1.985	0.000
17	23	50.70	0.000	48.25	4.965	4.965	0.000
18	24	59.26	0.000	50.26	7.318	7.318	0.000
19	25	55.41	0.000	47.34	7.229	7.229	0.000
20	26	60.45	0.000	51.73	8.838	8.838	0.000

8.2.4. PRZM H-CW-Z1.TAB File – Output for Hamburg

C:\fgrat\Projects\runmanual2 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

- (1) Period
- (2) Years
- (3) Conc. (ug/l)
- (4) Mass (g/ha)
- (5) Leachate (l/ha)

Bottom of Soil Core

1	7	2.782	3.261	0.1172E+07
2	8	2.428	3.338	0.1375E+07
3	9	1.079	2.624	0.2431E+07
4	10	0.5862	1.643	0.2803E+07
5	11	0.7242	1.683	0.2324E+07
6	12	0.8463	3.883	0.4588E+07
7	13	1.538	6.263	0.4071E+07
8	14	1.763	3.043	0.1726E+07
9	15	1.105	3.994	0.3615E+07
10	16	1.583	4.647	0.2935E+07
11	17	1.366	2.419	0.1771E+07
12	18	0.7663	1.725	0.2251E+07
13	19	0.7125	1.841	0.2584E+07
14	20	0.7772	2.344	0.3016E+07
15	21	1.091	1.697	0.1555E+07
16	22	1.040	0.7944	0.7636E+06
17	23	0.4691	1.247	0.2658E+07
18	24	0.2448	0.6172	0.2521E+07
19	25	0.8430	3.661	0.4343E+07
20	26	1.957	9.018	0.4608E+07

At 1 Meter

1	7	2.400	2.849	0.1187E+07
2	8	1.068	1.469	0.1375E+07
3	9	0.4937	1.215	0.2461E+07
4	10	0.6913	1.944	0.2812E+07
5	11	0.6262	1.461	0.2333E+07
6	12	1.131	5.199	0.4595E+07
7	13	1.693	6.903	0.4077E+07
8	14	1.365	2.369	0.1736E+07
9	15	1.127	4.086	0.3627E+07
10	16	1.573	4.626	0.2941E+07
11	17	0.8713	1.551	0.1780E+07
12	18	0.5566	1.259	0.2262E+07
13	19	0.7939	2.057	0.2591E+07
14	20	0.9858	2.981	0.3024E+07
15	21	0.9183	1.438	0.1566E+07
16	22	0.4525	0.3455	0.7636E+06
17	23	0.1801	0.4821	0.2677E+07
18	24	0.4371	1.109	0.2537E+07
19	25	1.160	5.048	0.4350E+07
20	26	2.455	11.35	0.4623E+07

Mass Balance Summary (g/ha)

- (1) Period
- (2) Years
- (3) Applied/Formed
- (4) Runoff
- (5) Volatilized
- (6) Decayed
- (7) Uptake
- (8) Leached
- (9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.1900	848.0	64.10	3.260	732.0
2	8	1000.	0.000	0.1500	880.0	68.80	3.340	787.0
3	9	1000.	0.000	0.1810	1030.	74.80	2.620	665.0
4	10	1000.	0.000	0.2750	862.0	64.90	1.640	751.0
5	11	1000.	0.000	0.1220	955.0	65.80	1.680	716.0
6	12	1000.	0.000	0.1860	906.0	61.20	3.880	750.0
7	13	1000.	0.000	0.1250	893.0	58.30	6.260	807.0
8	14	1000.	0.000	0.2180	1020.	69.60	3.040	694.0
9	15	1000.	0.000	0.2200	872.0	41.20	3.990	791.0
10	16	1000.	0.000	0.3500	966.0	64.00	4.650	751.0
11	17	1000.	0.000	0.1090	941.0	71.80	2.420	729.0
12	18	1000.	0.000	0.1450	1020.	80.80	1.730	610.0
13	19	1000.	0.000	0.1630	893.0	65.20	1.840	660.0
14	20	1000.	0.000	0.1400	922.0	59.10	2.340	675.0
15	21	1000.	0.000	0.2810	880.0	48.10	1.700	764.0
16	22	1000.	0.000	0.1740	986.0	76.30	0.7940	687.0
17	23	1000.	0.000	0.1010	945.0	64.00	1.250	674.0
18	24	1000.	0.000	0.1230	939.0	51.50	0.6170	687.0
19	25	1000.	0.000	0.1690	850.0	63.80	3.660	777.0
20	26	1000.	0.000	0.1760	1040.	72.50	9.020	628.0

At 1 Meter

1	7	1000.	0.000	0.1900	848.0	64.10	2.850	728.0
2	8	1000.	0.000	0.1500	880.0	68.80	1.470	785.0
3	9	1000.	0.000	0.1810	1030.	74.80	1.210	664.0
4	10	1000.	0.000	0.2750	862.0	64.90	1.940	750.0
5	11	1000.	0.000	0.1220	955.0	65.80	1.460	715.0
6	12	1000.	0.000	0.1860	906.0	61.20	5.200	748.0
7	13	1000.	0.000	0.1250	893.0	58.30	6.900	804.0
8	14	1000.	0.000	0.2180	1020.	69.60	2.370	692.0
9	15	1000.	0.000	0.2200	872.0	41.20	4.090	788.0
10	16	1000.	0.000	0.3500	966.0	64.00	4.630	748.0
11	17	1000.	0.000	0.1090	941.0	71.80	1.550	728.0
12	18	1000.	0.000	0.1450	1020.	80.80	1.260	609.0
13	19	1000.	0.000	0.1630	893.0	65.20	2.060	658.0
14	20	1000.	0.000	0.1400	922.0	59.10	2.980	674.0
15	21	1000.	0.000	0.2810	880.0	48.10	1.440	762.0
16	22	1000.	0.000	0.1740	986.0	76.30	0.3450	686.0
17	23	1000.	0.000	0.1010	945.0	64.00	0.4820	674.0
18	24	1000.	0.000	0.1230	939.0	51.50	1.110	687.0
19	25	1000.	0.000	0.1690	850.0	63.80	5.050	775.0
20	26	1000.	0.000	0.1760	1040.	72.50	11.40	624.0

Hydrology Summary (cm)

(1)	Period						
(2)	Years						
(3)	Precipitation						
(4)	Runoff						
(5)	ET						
(6)	Leach - At 1 Meter						
(7)	Leach - Bottom of Soil Core						
(8)	Irrigation (cm)						
1	7	60.24	0.000	48.52	11.87	11.72	0.000
2	8	54.02	0.000	41.68	13.75	13.75	0.000
3	9	78.65	0.000	52.93	24.61	24.31	0.000
4	10	77.75	0.000	48.99	28.12	28.03	0.000
5	11	73.15	0.000	50.64	23.33	23.24	0.000
6	12	98.84	0.000	52.96	45.95	45.88	0.000
7	13	94.08	0.000	53.37	40.77	40.71	0.000
8	14	70.08	0.000	52.82	17.36	17.26	0.000
9	15	80.97	0.000	44.82	36.27	36.15	0.000
10	16	78.08	0.000	48.40	29.41	29.35	0.000
11	17	75.04	0.000	57.44	17.80	17.71	0.000
12	18	78.01	0.000	55.71	22.62	22.51	0.000
13	19	83.12	0.000	57.33	25.91	25.84	0.000
14	20	84.07	0.000	53.86	30.24	30.16	0.000
15	21	66.80	0.000	51.40	15.66	15.55	0.000
16	22	60.84	0.000	53.37	7.636	7.636	0.000
17	23	82.15	0.000	55.35	26.77	26.58	0.000
18	24	77.40	0.000	52.10	25.37	25.21	0.000
19	25	99.93	0.000	56.50	43.50	43.43	0.000
20	26	99.73	0.000	53.65	46.23	46.08	0.000

8.2.5. PRZM J-CW-Z1.TAB File – Output for Jokioinen

C:\fgrat\Projects\runmanual2 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

(1)	Period			
(2)	Years			
(3)	Conc. (ug/l)			
(4)	Mass (g/ha)			
(5)	Leachate (l/ha)			
Bottom of Soil Core				
1	7	0.1747	0.2930	0.1677E+07
2	8	0.1641	0.1978	0.1205E+07
3	9	0.1244	0.3305	0.2657E+07
4	10	0.7890E-01	0.2954	0.3744E+07
5	11	0.9930E-01	0.1841	0.1854E+07
6	12	0.1454	0.2392	0.1645E+07
7	13	0.1552	0.7149	0.4606E+07
8	14	0.1658	0.2884	0.1739E+07
9	15	0.2501	0.9110	0.3643E+07
10	16	0.3063	1.102	0.3598E+07
11	17	0.4181	0.9486	0.2269E+07
12	18	0.5494	0.8779	0.1598E+07
13	19	0.5865	0.1034	0.1763E+06
14	20	0.5889	0.4688E-01	0.7960E+05
15	21	0.5933	0.1021	0.1721E+06
16	22	0.6004	0.3060	0.5097E+06
17	23	0.3613	1.518	0.4201E+07
18	24	0.1070	0.4860	0.4542E+07
19	25	0.1364	0.2070	0.1518E+07
20	26	0.1786	0.2408	0.1348E+07
At 1 Meter				
1	7	0.1030	0.1727	0.1677E+07
2	8	0.7817E-01	0.9420E-01	0.1205E+07
3	9	0.5081E-01	0.1350	0.2657E+07
4	10	0.1218	0.4561	0.3744E+07
5	11	0.2062	0.3823	0.1854E+07
6	12	0.1466	0.2411	0.1645E+07
7	13	0.1701	0.7833	0.4606E+07
8	14	0.3325	0.5783	0.1739E+07
9	15	0.2951	1.075	0.3643E+07
10	16	0.4422	1.591	0.3598E+07
11	17	0.6739	1.529	0.2269E+07
12	18	0.5669	0.9059	0.1598E+07
13	19	0.3005	0.5298E-01	0.1763E+06
14	20	0.2721E-01	0.2166E-02	0.7960E+05
15	21	0.000	-.3369E-02	0.1721E+06
16	22	0.1136E-01	0.5791E-02	0.5097E+06
17	23	0.3247E-01	0.1364	0.4201E+07

18	24	0.1628	0.7393	0.4542E+07
19	25	0.2246	0.3409	0.1518E+07
20	26	0.1725	0.2325	0.1348E+07

Mass Balance Summary (g/ha)

- (1) Period
- (2) Years
- (3) Applied/Formed
- (4) Runoff
- (5) Volatilized
- (6) Decayed
- (7) Uptake
- (8) Leached
- (9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.2180	975.0	106.0	0.2930	678.0
2	8	1000.	0.000	0.2200	689.0	86.70	0.1980	923.0
3	9	1000.	0.000	0.1840	1050.	106.0	0.3300	748.0
4	10	1000.	0.000	0.1110	907.0	76.60	0.2950	776.0
5	11	1000.	0.000	0.1750	910.0	98.30	0.1840	766.0
6	12	1000.	0.000	0.1600	904.0	88.90	0.2390	775.0
7	13	1000.	0.000	0.1520	953.0	77.10	0.7150	744.0
8	14	1000.	0.000	0.2010	894.0	71.80	0.2880	767.0
9	15	1000.	0.000	0.1220	979.0	80.00	0.9110	712.0
10	16	1000.	0.000	0.1060	918.0	60.10	1.100	735.0
11	17	1000.	0.000	0.1400	890.0	96.30	0.9490	747.0
12	18	1000.	0.000	0.1280	909.0	73.40	0.8780	760.0
13	19	1000.	0.000	0.1520	874.0	96.70	0.1030	794.0
14	20	1000.	0.000	0.2210	878.0	99.80	0.4690E-01	825.0
15	21	1000.	0.000	0.2320	1010.	109.0	0.1020	692.0
16	22	1000.	0.000	0.1410	844.0	93.10	0.3060	764.0
17	23	1000.	0.000	0.1350	1050.	86.80	1.520	604.0
18	24	1000.	0.000	0.1190	939.0	72.80	0.4860	595.0
19	25	1000.	0.000	0.1480	783.0	80.00	0.2070	749.0
20	26	1000.	0.000	0.2160	894.0	80.80	0.2410	761.0

At 1 Meter

1	7	1000.	0.000	0.2180	975.0	106.0	0.1730	678.0
2	8	1000.	0.000	0.2200	689.0	86.70	0.9420E-01	923.0
3	9	1000.	0.000	0.1840	1050.	106.0	0.1350	748.0
4	10	1000.	0.000	0.1110	907.0	76.60	0.4560	775.0
5	11	1000.	0.000	0.1750	910.0	98.30	0.3820	766.0
6	12	1000.	0.000	0.1600	904.0	88.90	0.2410	775.0
7	13	1000.	0.000	0.1520	953.0	77.10	0.7830	743.0
8	14	1000.	0.000	0.2010	894.0	71.80	0.5780	766.0
9	15	1000.	0.000	0.1220	979.0	80.00	1.070	711.0
10	16	1000.	0.000	0.1060	918.0	60.10	1.590	733.0
11	17	1000.	0.000	0.1400	890.0	96.30	1.530	745.0
12	18	1000.	0.000	0.1280	909.0	73.40	0.9060	757.0
13	19	1000.	0.000	0.1520	874.0	96.70	0.5300E-01	792.0
14	20	1000.	0.000	0.2210	878.0	99.80	0.2170E-02	823.0
15	21	1000.	0.000	0.2320	1010.	109.0	-.3370E-02	690.0
16	22	1000.	0.000	0.1410	844.0	93.10	0.5790E-02	762.0
17	23	1000.	0.000	0.1350	1050.	86.80	0.1360	603.0
18	24	1000.	0.000	0.1190	939.0	72.80	0.7390	594.0
19	25	1000.	0.000	0.1480	783.0	80.00	0.3410	748.0
20	26	1000.	0.000	0.2160	894.0	80.80	0.2330	760.0

Hydrology Summary (cm)

- (1) Period
- (2) Years
- (3) Precipitation
- (4) Runoff
- (5) ET
- (6) Leach - At 1 Meter
- (7) Leach - Bottom of Soil Core
- (8) Irrigation (cm)

1	7	65.88	0.000	48.21	16.77	16.77	0.000
2	8	51.17	0.000	38.67	12.05	12.05	0.000
3	9	72.96	0.000	44.53	26.57	26.57	0.000
4	10	84.76	0.000	46.83	37.44	37.44	0.000
5	11	62.97	0.000	45.88	18.54	18.54	0.000
6	12	71.74	0.000	47.35	16.45	16.45	0.000
7	13	95.09	0.000	53.05	46.06	46.06	0.000
8	14	55.80	0.000	44.57	17.39	17.39	0.000
9	15	86.57	0.000	43.48	36.43	36.43	0.000
10	16	73.57	0.000	42.61	35.98	35.98	0.000

11	17	74.52	0.000	44.64	22.69	22.69	0.000
12	18	41.22	0.000	34.22	15.98	15.98	0.000
13	19	32.57	0.000	34.34	1.763	1.763	0.000
14	20	43.09	0.000	39.18	0.7960	0.7960	0.000
15	21	37.50	0.000	37.37	1.721	1.721	0.000
16	22	39.35	0.000	36.24	5.097	5.097	0.000
17	23	96.40	0.000	50.88	42.01	42.01	0.000
18	24	96.40	0.000	50.98	45.42	45.42	0.000
19	25	62.97	0.000	44.91	15.18	15.18	0.000
20	26	55.80	0.000	44.57	13.48	13.48	0.000

8.2.6. PRZM K-CW-Z1.TAB File – Output for Kremsmünster

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Concentration Summary

(1) Period

(2) Years

(3) Conc. (ug/l)

(4) Mass (g/ha)

(5) Leachate (l/ha)

Bottom of Soil Core

1	7	0.4751E-01	0.1726	0.3633E+07
2	8	0.1173	0.2784	0.2373E+07
3	9	0.1712	0.8892	0.5194E+07
4	10	0.2022	0.9855	0.4873E+07
5	11	0.4459	2.018	0.4526E+07
6	12	0.8660	2.430	0.2806E+07
7	13	0.9976	4.580	0.4591E+07
8	14	0.7061	2.496	0.3535E+07
9	15	0.4879	0.8583	0.1759E+07
10	16	0.3763	0.8353	0.2220E+07
11	17	0.2943	0.8818	0.2996E+07
12	18	0.2458	0.6407	0.2607E+07
13	19	0.1867	0.7556	0.4048E+07
14	20	0.1678	0.4064	0.2422E+07
15	21	0.1823	0.5109	0.2803E+07
16	22	0.1970	0.5578E-01	0.2832E+06
17	23	0.000	0.000	0.000
18	24	0.2043	0.7894	0.3863E+07
19	25	0.1813	0.4385	0.2418E+07
20	26	0.1495	0.3333	0.2230E+07

At 1 Meter

1	7	0.1895	0.6906	0.3644E+07
2	8	0.1629	0.3895	0.2391E+07
3	9	0.3301	1.719	0.5207E+07
4	10	1.049	5.121	0.4882E+07
5	11	1.104	5.007	0.4537E+07
6	12	0.5140	1.447	0.2815E+07
7	13	0.2007	0.9238	0.4604E+07
8	14	0.2342	0.8318	0.3551E+07
9	15	0.2763	0.4896	0.1772E+07
10	16	0.8427E-01	0.1880	0.2231E+07
11	17	0.1118	0.3362	0.3007E+07
12	18	0.2061	0.5399	0.2619E+07
13	19	0.2353	0.9542	0.4056E+07
14	20	0.2177	0.5298	0.2434E+07
15	21	0.1126	0.3169	0.2814E+07
16	22	0.1461	0.4137E-01	0.2832E+06
17	23	0.000	0.000	0.000
18	24	0.1101	0.4299	0.3905E+07
19	25	0.1762	0.4281	0.2429E+07
20	26	0.2390	0.5366	0.2245E+07

Mass Balance Summary (g/ha)

(1) Period

(2) Years

(3) Applied/Formatted

(4) Runoff

(5) Volatilized

(6) Decayed

(7) Uptake

(8) Leached

(9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.1170	707.0	64.40	0.1730	1010.
2	8	1000.	0.000	0.1330	949.0	92.70	0.2780	960.0

3	9	1000.	0.000	0.1450	987.0	92.60	0.8890	864.0
4	10	1000.	0.000	0.1920	850.0	90.70	0.9860	922.0
5	11	1000.	0.000	0.9020E-01	959.0	94.20	2.020	859.0
6	12	1000.	0.000	0.1420	813.0	87.80	2.430	975.0
7	13	1000.	0.000	0.1690	892.0	114.0	4.580	964.0
8	14	1000.	0.000	0.1500	1030.	85.30	2.500	818.0
9	15	1000.	0.000	0.2260	797.0	74.40	0.8580	967.0
10	16	1000.	0.000	0.2240	872.0	116.0	0.8350	980.0
11	17	1000.	0.000	0.1010	980.0	90.90	0.8820	894.0
12	18	1000.	0.000	0.1710	933.0	90.30	0.6410	872.0
13	19	1000.	0.000	0.1470	890.0	93.10	0.7560	888.0
14	20	1000.	0.000	0.1510	811.0	81.60	0.4060	1010.
15	21	1000.	0.000	0.9200E-01	1020.	80.80	0.5110	889.0
16	22	1000.	0.000	0.1420	829.0	84.10	0.5580E-01	989.0
17	23	1000.	0.000	0.1820	891.0	127.0	0.000	968.0
18	24	1000.	0.000	0.1050	987.0	79.40	0.7890	893.0
19	25	1000.	0.000	0.9470E-01	895.0	94.90	0.4390	899.0
20	26	1000.	0.000	0.1530	1040.	97.40	0.3330	743.0
At 1 Meter								
1	7	1000.	0.000	0.1170	707.0	64.40	0.6910	1010.
2	8	1000.	0.000	0.1330	949.0	92.70	0.3890	958.0
3	9	1000.	0.000	0.1450	987.0	92.60	1.720	861.0
4	10	1000.	0.000	0.1920	850.0	90.70	5.120	915.0
5	11	1000.	0.000	0.9020E-01	959.0	94.20	5.010	849.0
6	12	1000.	0.000	0.1420	813.0	87.80	1.450	966.0
7	13	1000.	0.000	0.1690	892.0	114.0	0.9240	959.0
8	14	1000.	0.000	0.1500	1030.	85.30	0.8320	815.0
9	15	1000.	0.000	0.2260	797.0	74.40	0.4900	964.0
10	16	1000.	0.000	0.2240	872.0	116.0	0.1880	978.0
11	17	1000.	0.000	0.1010	980.0	90.90	0.3360	892.0
12	18	1000.	0.000	0.1710	933.0	90.30	0.5400	870.0
13	19	1000.	0.000	0.1470	890.0	93.10	0.9540	886.0
14	20	1000.	0.000	0.1510	811.0	81.60	0.5300	1010.
15	21	1000.	0.000	0.9200E-01	1020.	80.80	0.3170	887.0
16	22	1000.	0.000	0.1420	829.0	84.10	0.4140E-01	987.0
17	23	1000.	0.000	0.1820	891.0	127.0	0.000	966.0
18	24	1000.	0.000	0.1050	987.0	79.40	0.4300	891.0
19	25	1000.	0.000	0.9470E-01	895.0	94.90	0.4280	898.0
20	26	1000.	0.000	0.1530	1040.	97.40	0.5370	741.0

Hydrology Summary (cm)

- (1) Period
- (2) Years
- (3) Precipitation
- (4) Runoff
- (5) ET
- (6) Leach - At 1 Meter
- (7) Leach - Bottom of Soil Core
- (8) Irrigation (cm)

1	7	99.32	0.000	61.90	36.44	36.33	0.000
2	8	88.06	0.000	64.06	23.91	23.73	0.000
3	9	117.0	0.000	66.39	52.07	51.94	0.000
4	10	110.5	0.000	61.70	48.82	48.73	0.000
5	11	109.9	0.000	64.66	45.37	45.26	0.000
6	12	90.37	0.000	62.15	28.15	28.06	0.000
7	13	109.5	0.000	63.76	46.04	45.91	0.000
8	14	93.30	0.000	58.01	35.51	35.35	0.000
9	15	83.59	0.000	66.01	17.72	17.59	0.000
10	16	82.02	0.000	59.67	22.31	22.20	0.000
11	17	92.82	0.000	62.98	30.07	29.96	0.000
12	18	89.33	0.000	63.41	26.19	26.07	0.000
13	19	100.4	0.000	59.93	40.56	40.48	0.000
14	20	83.24	0.000	58.89	24.34	24.22	0.000
15	21	91.97	0.000	63.93	28.14	28.03	0.000
16	22	31.22	0.000	40.46	2.832	2.832	0.000
17	23	31.45	0.000	26.82	0.000	0.000	0.000
18	24	110.9	0.000	64.94	39.05	38.63	0.000
19	25	88.69	0.000	64.35	24.29	24.18	0.000
20	26	94.67	0.000	72.42	22.45	22.30	0.000

8.2.7. PRZM N-CW-Z1.TAB File – Output for Okehampton

C:\fgrat\Projects\runmanual2 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

- (1) Period
- (2) Years

(3) Conc. (ug/l)
 (4) Mass (g/ha)
 (5) Leachate (l/ha)

Bottom of Soil Core

1	7	2.111	10.31	0.4885E+07
2	8	1.354	2.163	0.1597E+07
3	9	0.6602	2.930	0.4438E+07
4	10	0.7994	2.467	0.3086E+07
5	11	0.8183	3.860	0.4717E+07
6	12	1.147	5.486	0.4784E+07
7	13	1.203	7.460	0.6199E+07
8	14	0.7841	2.404	0.3066E+07
9	15	0.6442	1.606	0.2493E+07
10	16	0.7142	3.880	0.5433E+07
11	17	0.8190	2.122	0.2591E+07
12	18	0.6661	3.347	0.5025E+07
13	19	1.896	10.36	0.5463E+07
14	20	2.137	9.090	0.4253E+07
15	21	0.9400	3.366	0.3581E+07
16	22	0.4781	2.062	0.4313E+07
17	23	1.853	11.44	0.6173E+07
18	24	1.661	7.980	0.4803E+07
19	25	1.015	4.652	0.4582E+07
20	26	1.935	10.01	0.5174E+07

At 1 Meter

1	7	1.632	7.970	0.4885E+07
2	8	0.5305	0.8472	0.1597E+07
3	9	0.6039	2.680	0.4438E+07
4	10	0.8548	2.638	0.3086E+07
5	11	0.8334	3.931	0.4717E+07
6	12	1.462	6.996	0.4784E+07
7	13	0.9900	6.137	0.6199E+07
8	14	0.5705	1.749	0.3066E+07
9	15	0.8311	2.072	0.2493E+07
10	16	0.7040	3.825	0.5433E+07
11	17	0.7565	1.960	0.2591E+07
12	18	0.6816	3.425	0.5025E+07
13	19	2.647	14.46	0.5463E+07
14	20	1.348	5.734	0.4253E+07
15	21	0.5912	2.117	0.3581E+07
16	22	0.5096	2.198	0.4313E+07
17	23	2.433	15.02	0.6173E+07
18	24	1.208	5.800	0.4803E+07
19	25	0.9282	4.253	0.4582E+07
20	26	2.549	13.19	0.5174E+07

Mass Balance Summary (g/ha)

(1) Period
 (2) Years
 (3) Applied/Formed
 (4) Runoff
 (5) Volatilized
 (6) Decayed
 (7) Uptake
 (8) Leached
 (9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.2080	814.0	74.40	10.30	515.0
2	8	1000.	0.000	0.2140	951.0	88.90	2.160	469.0
3	9	1000.	0.000	0.4390	974.0	87.90	2.930	395.0
4	10	1000.	0.000	0.1800	808.0	106.0	2.470	489.0
5	11	1000.	0.000	0.2430	940.0	122.0	3.860	411.0
6	12	1000.	0.000	0.1270	837.0	107.0	5.490	469.0
7	13	1000.	0.000	0.1030	914.0	62.30	7.460	490.0
8	14	1000.	0.000	0.2010	955.0	108.0	2.400	416.0
9	15	1000.	0.000	0.2350	825.0	105.0	1.610	491.0
10	16	1000.	0.000	0.1760	992.0	84.50	3.880	402.0
11	17	1000.	0.000	0.4260	804.0	115.0	2.120	488.0
12	18	1000.	0.000	0.1760	984.0	74.40	3.350	416.0
13	19	1000.	0.000	0.3490	868.0	92.30	10.40	453.0
14	20	1000.	0.000	0.3140	906.0	105.0	9.090	431.0
15	21	1000.	0.000	0.3070	929.0	90.10	3.370	410.0
16	22	1000.	0.000	0.2490	885.0	69.30	2.060	456.0
17	23	1000.	0.000	0.9690E-01	876.0	62.60	11.40	510.0
18	24	1000.	0.000	0.1400	949.0	71.20	7.980	479.0
19	25	1000.	0.000	0.1800	845.0	81.10	4.650	551.0
20	26	1000.	0.000	0.2230	1040.	87.70	10.00	395.0

At 1 Meter								
1	7	1000.	0.000	0.2080	814.0	74.40	7.970	512.0
2	8	1000.	0.000	0.2140	951.0	88.90	0.8470	467.0
3	9	1000.	0.000	0.4390	974.0	87.90	2.680	393.0
4	10	1000.	0.000	0.1800	808.0	106.0	2.640	487.0
5	11	1000.	0.000	0.2430	940.0	122.0	3.930	409.0
6	12	1000.	0.000	0.1270	837.0	107.0	7.000	466.0
7	13	1000.	0.000	0.1030	914.0	62.30	6.140	488.0
8	14	1000.	0.000	0.2010	955.0	108.0	1.750	414.0
9	15	1000.	0.000	0.2350	825.0	105.0	2.070	489.0
10	16	1000.	0.000	0.1760	992.0	84.50	3.830	400.0
11	17	1000.	0.000	0.4260	804.0	115.0	1.960	486.0
12	18	1000.	0.000	0.1760	984.0	74.40	3.430	414.0
13	19	1000.	0.000	0.3490	868.0	92.30	14.50	447.0
14	20	1000.	0.000	0.3140	906.0	105.0	5.730	428.0
15	21	1000.	0.000	0.3070	929.0	90.10	2.120	408.0
16	22	1000.	0.000	0.2490	885.0	69.30	2.200	454.0
17	23	1000.	0.000	0.9690E-01	876.0	62.60	15.00	505.0
18	24	1000.	0.000	0.1400	949.0	71.20	5.800	476.0
19	25	1000.	0.000	0.1800	845.0	81.10	4.250	548.0
20	26	1000.	0.000	0.2230	1040.	87.70	13.20	390.0

Hydrology Summary (cm)

- (1) Period
- (2) Years
- (3) Precipitation
- (4) Runoff
- (5) ET
- (6) Leach - At 1 Meter
- (7) Leach - Bottom of Soil Core
- (8) Irrigation (cm)

1	7	108.3	0.000	59.79	48.85	48.85	0.000
2	8	67.33	0.000	51.02	15.97	15.97	0.000
3	9	105.6	0.000	61.29	44.38	44.38	0.000
4	10	89.91	0.000	58.74	30.86	30.86	0.000
5	11	109.7	0.000	62.85	47.17	47.17	0.000
6	12	110.4	0.000	62.81	47.84	47.84	0.000
7	13	123.8	0.000	61.49	61.99	61.99	0.000
8	14	103.0	0.000	72.70	30.66	30.66	0.000
9	15	90.61	0.000	65.58	24.93	24.93	0.000
10	16	116.1	0.000	61.60	54.33	54.33	0.000
11	17	90.17	0.000	63.83	25.91	25.91	0.000
12	18	109.2	0.000	59.28	50.25	50.25	0.000
13	19	115.7	0.000	61.38	54.63	54.63	0.000
14	20	103.0	0.000	61.03	42.53	42.53	0.000
15	21	93.78	0.000	57.31	35.81	35.81	0.000
16	22	101.6	0.000	58.26	43.13	43.13	0.000
17	23	111.3	0.000	49.76	61.73	61.73	0.000
18	24	113.2	0.000	65.18	48.03	48.03	0.000
19	25	97.17	0.000	51.14	45.82	45.82	0.000
20	26	115.8	0.000	64.10	51.74	51.74	0.000

8.2.8. PRZM O-CW-Z1.TAB File – Output for Piacenza

C:\fgrat\Projects\runmanual2 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

- (1) Period
- (2) Years
- (3) Conc. (ug/l)
- (4) Mass (g/ha)
- (5) Leachate (l/ha)

Bottom of Soil Core

1	7	0.7181E-01	0.3116	0.4339E+07
2	8	0.5408E-01	0.3672	0.6790E+07
3	9	3.749	35.28	0.9410E+07
4	10	3.302	29.28	0.8868E+07
5	11	8.463	70.64	0.8347E+07
6	12	5.013	15.97	0.3186E+07
7	13	1.844	9.568	0.5190E+07
8	14	0.5696	2.917	0.5121E+07
9	15	0.7475	3.351	0.4483E+07
10	16	0.7283	6.166	0.8466E+07
11	17	1.173	7.652	0.6523E+07
12	18	1.621	10.10	0.6230E+07
13	19	1.118	10.30	0.9215E+07
14	20	0.6590	2.230	0.3384E+07

15	21	0.5172	2.153	0.4163E+07
16	22	0.2451	1.043	0.4256E+07
17	23	0.4327	2.208	0.5103E+07
18	24	0.6168	0.5700	0.9241E+06
19	25	0.4739	0.9715	0.2050E+07
20	26	0.2215	0.7209	0.3255E+07
At 1 Meter				
1	7	0.2966E-01	0.1290	0.4350E+07
2	8	0.7308E-01	0.4976	0.6809E+07
3	9	5.685	53.54	0.9418E+07
4	10	2.224	19.74	0.8876E+07
5	11	10.09	84.38	0.8360E+07
6	12	1.434	4.582	0.3195E+07
7	13	0.9990E-01	0.5194	0.5199E+07
8	14	0.7667	3.937	0.5135E+07
9	15	0.4400	1.976	0.4491E+07
10	16	1.006	8.525	0.8474E+07
11	17	1.267	8.277	0.6535E+07
12	18	1.855	11.58	0.6242E+07
13	19	0.7316	6.750	0.9226E+07
14	20	0.6960	2.360	0.3391E+07
15	21	0.6344E-01	0.2648	0.4174E+07
16	22	0.2432	1.039	0.4272E+07
17	23	0.7139	3.656	0.5121E+07
18	24	0.7629E-01	0.7132E-01	0.9348E+06
19	25	0.000	-.2733E-01	0.2057E+07
20	26	0.3980E-02	0.1299E-01	0.3264E+07

Mass Balance Summary (g/ha)

(1) Period								
(2) Years								
(3) Applied/Formed								
(4) Runoff								
(5) Volatilized								
(6) Decayed								
(7) Uptake								
(8) Leached								
(9) Remaining								
Bottom of Soil Core								
1	7	1000.	0.000	0.1210	830.0	73.40	0.3120	714.0
2	8	1000.	0.000	0.1320	976.0	67.50	0.3670	657.0
3	9	1000.	0.000	0.1380	934.0	46.20	35.30	629.0
4	10	1000.	0.000	0.1620	922.0	41.90	29.30	644.0
5	11	1000.	0.000	0.7670	806.0	65.40	70.60	699.0
6	12	1000.	0.000	0.4430	858.0	134.0	16.00	698.0
7	13	1000.	0.000	0.8170	927.0	77.20	9.570	682.0
8	14	1000.	0.000	0.2370	925.0	62.20	2.920	694.0
9	15	1000.	0.000	0.7360	966.0	106.0	3.350	610.0
10	16	1000.	0.000	0.1060	895.0	54.50	6.170	658.0
11	17	1000.	0.000	0.1010	904.0	82.70	7.650	664.0
12	18	1000.	0.000	0.2270	863.0	111.0	10.10	678.0
13	19	1000.	0.000	0.2510	957.0	88.80	10.30	616.0
14	20	1000.	0.000	0.1380	782.0	125.0	2.230	744.0
15	21	1000.	0.000	0.3590	949.0	210.0	2.150	537.0
16	22	1000.	0.000	0.4850	717.0	160.0	1.040	675.0
17	23	1000.	0.000	0.3570	891.0	124.0	2.210	662.0
18	24	1000.	0.000	0.2670	916.0	132.0	0.5700	603.0
19	25	1000.	0.000	0.1610	848.0	101.0	0.9720	659.0
20	26	1000.	0.000	0.2490	942.0	112.0	0.7210	594.0
At 1 Meter								
1	7	1000.	0.000	0.1210	830.0	73.40	0.1290	714.0
2	8	1000.	0.000	0.1320	976.0	67.50	0.4980	656.0
3	9	1000.	0.000	0.1380	934.0	46.20	53.50	613.0
4	10	1000.	0.000	0.1620	922.0	41.90	19.70	636.0
5	11	1000.	0.000	0.7670	806.0	65.40	84.40	679.0
6	12	1000.	0.000	0.4430	858.0	134.0	4.580	687.0
7	13	1000.	0.000	0.8170	927.0	77.20	0.5190	681.0
8	14	1000.	0.000	0.2370	925.0	62.20	3.940	690.0
9	15	1000.	0.000	0.7360	966.0	106.0	1.980	608.0
10	16	1000.	0.000	0.1060	895.0	54.50	8.520	653.0
11	17	1000.	0.000	0.1010	904.0	82.70	8.280	659.0
12	18	1000.	0.000	0.2270	863.0	111.0	11.60	672.0
13	19	1000.	0.000	0.2510	957.0	88.80	6.750	614.0
14	20	1000.	0.000	0.1380	782.0	125.0	2.360	741.0
15	21	1000.	0.000	0.3590	949.0	210.0	0.2650	536.0
16	22	1000.	0.000	0.4850	717.0	160.0	1.040	673.0
17	23	1000.	0.000	0.3570	891.0	124.0	3.660	659.0

18	24	1000.	0.000	0.2670	916.0	132.0	0.7130E-01	601.0
19	25	1000.	0.000	0.1610	848.0	101.0	-.2730E-01	658.0
20	26	1000.	0.000	0.2490	942.0	112.0	0.1300E-01	593.0

Hydrology Summary (cm)

(1) Period

(2) Years

(3) Precipitation

(4) Runoff

(5) ET

(6) Leach - At 1 Meter

(7) Leach - Bottom of Soil Core

(8) Irrigation (cm)

1	7	92.42	0.000	50.52	43.50	43.39	0.000
2	8	117.6	0.000	48.23	68.09	67.90	0.000
3	9	156.3	0.000	62.58	94.18	94.10	0.000
4	10	140.0	0.000	50.89	88.76	88.68	0.000
5	11	140.4	0.000	56.97	83.60	83.47	0.000
6	12	101.8	0.000	70.47	31.95	31.86	0.000
7	13	111.0	0.000	58.56	51.99	51.90	0.000
8	14	106.8	0.000	56.10	51.35	51.21	0.000
9	15	113.1	0.000	69.08	44.91	44.83	0.000
10	16	150.8	0.000	65.03	84.74	84.66	0.000
11	17	123.5	0.000	58.04	65.35	65.23	0.000
12	18	130.1	0.000	67.85	62.42	62.30	0.000
13	19	153.2	0.000	61.02	92.26	92.15	0.000
14	20	103.1	0.000	73.51	33.91	33.84	0.000
15	21	112.3	0.000	67.00	41.74	41.63	0.000
16	22	95.19	0.000	52.02	42.72	42.56	0.000
17	23	107.3	0.000	57.71	51.21	51.03	0.000
18	24	66.14	0.000	56.71	9.348	9.241	0.000
19	25	86.41	0.000	64.68	20.57	20.50	0.000
20	26	92.32	0.000	59.77	32.64	32.55	0.000

8.2.9. PRZM P-CW-Z1.TAB File – Output for Porto

C:\fgrat\Projects\runmanual2 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

(1) Period

(2) Years

(3) Conc. (ug/l)

(4) Mass (g/ha)

(5) Leachate (l/ha)

Bottom of Soil Core

1	7	0.1185	0.6187	0.5219E+07
2	8	0.2674	1.154	0.4315E+07
3	9	0.4539	1.546	0.3406E+07
4	10	1.890	11.01	0.5825E+07
5	11	1.156	5.153	0.4458E+07
6	12	0.4093	1.389	0.3394E+07
7	13	0.2243	0.9113E-02	0.4062E+05
8	14	2.055	14.68	0.7142E+07
9	15	0.8937	1.186	0.1327E+07
10	16	0.4461	1.907	0.4275E+07
11	17	0.4021	1.016	0.2527E+07
12	18	0.8389	1.802	0.2148E+07
13	19	0.6978	1.196	0.1714E+07
14	20	0.1827	0.3274	0.1792E+07
15	21	0.6624E-01	0.2696E-01	0.4070E+06
16	22	0.2713E-01	0.4023E-01	0.1483E+07
17	23	0.9940E-02	0.9308E-02	0.9364E+06
18	24	0.2058E-01	0.9640E-01	0.4684E+07
19	25	0.9615E-01	0.3417	0.3554E+07
20	26	0.9546E-01	0.4773	0.5000E+07

At 1 Meter

1	7	0.1573	0.8216	0.5224E+07
2	8	0.3313	1.433	0.4326E+07
3	9	0.4089	1.395	0.3412E+07
4	10	2.177	12.69	0.5829E+07
5	11	0.8357	3.734	0.4468E+07
6	12	0.2982	1.014	0.3400E+07
7	13	0.000	-.7698E-03	0.4788E+05
8	14	2.176	15.56	0.7151E+07
9	15	0.6567	0.8715	0.1327E+07
10	16	0.3439	1.475	0.4289E+07
11	17	0.6542	1.657	0.2533E+07

12	18	0.8855	1.902	0.2148E+07
13	19	0.2046	0.3540	0.1730E+07
14	20	0.6120E-01	0.1101	0.1799E+07
15	21	0.2071E-01	0.8427E-02	0.4070E+06
16	22	0.6125E-02	0.9181E-02	0.1499E+07
17	23	0.8252E-02	0.7787E-02	0.9436E+06
18	24	0.2517E-01	0.1181	0.4692E+07
19	25	0.1673	0.5960	0.3562E+07
20	26	0.4549E-01	0.2277	0.5006E+07

Mass Balance Summary (g/ha)

- (1) Period
- (2) Years
- (3) Applied/Formed
- (4) Runoff
- (5) Volatilized
- (6) Decayed
- (7) Uptake
- (8) Leached
- (9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.1020	904.0	103.0	0.6190	1040.
2	8	1000.	0.000	0.1010	916.0	94.80	1.150	1030.
3	9	1000.	0.000	0.1350	884.0	77.40	1.550	1070.
4	10	1000.	0.000	0.1700	930.0	90.00	11.00	1030.
5	11	1000.	0.000	0.2300	999.0	104.0	5.150	906.0
6	12	1000.	0.000	0.1280	834.0	104.0	1.390	984.0
7	13	1000.	0.000	0.2790	787.0	144.0	0.9110E-02	1050.
8	14	1000.	0.000	0.1210	956.0	86.20	14.70	993.0
9	15	1000.	0.000	0.2730	900.0	117.0	1.190	968.0
10	16	1000.	0.000	0.7920E-01	845.0	76.30	1.910	1060.
11	17	1000.	0.000	0.2070	853.0	98.90	1.020	1110.
12	18	1000.	0.000	0.2320	945.0	110.0	1.800	1060.
13	19	1000.	0.000	0.1140	992.0	108.0	1.200	930.0
14	20	1000.	0.000	0.6850E-01	838.0	86.80	0.3270	1030.
15	21	1000.	0.000	0.2850	863.0	139.0	0.2700E-01	1030.
16	22	1000.	0.000	0.4950	825.0	204.0	0.4020E-01	987.0
17	23	1000.	0.000	0.3330	887.0	158.0	0.9310E-02	938.0
18	24	1000.	0.000	0.3400	858.0	182.0	0.9640E-01	884.0
19	25	1000.	0.000	0.1550	882.0	109.0	0.3420	885.0
20	26	1000.	0.000	0.2290	733.0	129.0	0.4770	1050.

At 1 Meter

1	7	1000.	0.000	0.1020	904.0	103.0	0.8220	1040.
2	8	1000.	0.000	0.1010	916.0	94.80	1.430	1030.
3	9	1000.	0.000	0.1350	884.0	77.40	1.390	1070.
4	10	1000.	0.000	0.1700	930.0	90.00	12.70	1030.
5	11	1000.	0.000	0.2300	999.0	104.0	3.730	905.0
6	12	1000.	0.000	0.1280	834.0	104.0	1.010	984.0
7	13	1000.	0.000	0.2790	787.0	144.0	-.7700E-03	1050.
8	14	1000.	0.000	0.1210	956.0	86.20	15.60	992.0
9	15	1000.	0.000	0.2730	900.0	117.0	0.8710	967.0
10	16	1000.	0.000	0.7920E-01	845.0	76.30	1.480	1060.
11	17	1000.	0.000	0.2070	853.0	98.90	1.660	1110.
12	18	1000.	0.000	0.2320	945.0	110.0	1.900	1060.
13	19	1000.	0.000	0.1140	992.0	108.0	0.3540	930.0
14	20	1000.	0.000	0.6850E-01	838.0	86.80	0.1100	1030.
15	21	1000.	0.000	0.2850	863.0	139.0	0.8430E-02	1030.
16	22	1000.	0.000	0.4950	825.0	204.0	0.9180E-02	987.0
17	23	1000.	0.000	0.3330	887.0	158.0	0.7790E-02	938.0
18	24	1000.	0.000	0.3400	858.0	182.0	0.1180	884.0
19	25	1000.	0.000	0.1550	882.0	109.0	0.5960	884.0
20	26	1000.	0.000	0.2290	733.0	129.0	0.2280	1050.

Hydrology Summary (cm)

- (1) Period
- (2) Years
- (3) Precipitation
- (4) Runoff
- (5) ET
- (6) Leach - At 1 Meter
- (7) Leach - Bottom of Soil Core
- (8) Irrigation (cm)

1	7	111.9	0.000	59.84	52.24	52.19	0.000
2	8	100.3	0.000	56.79	43.26	43.15	0.000
3	9	88.93	0.000	55.38	34.12	34.06	0.000
4	10	110.1	0.000	51.45	58.29	58.25	0.000

5	11	94.80	0.000	50.24	44.68	44.58	0.000
6	12	91.05	0.000	57.52	34.00	33.94	0.000
7	13	60.58	0.000	59.66	0.4788	0.4062	0.000
8	14	128.9	0.000	57.69	71.51	71.42	0.000
9	15	57.44	0.000	46.70	13.27	13.27	0.000
10	16	99.38	0.000	53.94	42.89	42.75	0.000
11	17	70.10	0.000	44.77	25.33	25.27	0.000
12	18	68.62	0.000	48.80	21.48	21.48	0.000
13	19	69.28	0.000	50.84	17.30	17.14	0.000
14	20	68.40	0.000	51.32	17.99	17.92	0.000
15	21	58.72	0.000	56.97	4.070	4.070	0.000
16	22	67.85	0.000	50.14	14.99	14.83	0.000
17	23	57.34	0.000	48.66	9.436	9.364	0.000
18	24	102.6	0.000	55.22	46.92	46.84	0.000
19	25	97.53	0.000	61.24	35.62	35.54	0.000
20	26	110.7	0.000	60.77	50.06	50.00	0.000

8.2.10. PRZM S-CW-Z1.TAB File – Output for Sevilla

C:\fgrat\Projects\runmanual2 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

(1) Period

(2) Years

(3) Conc. (ug/l)

(4) Mass (g/ha)

(5) Leachate (l/ha)

Bottom of Soil Core

1	7	0.1062E-04	0.8124E-05	0.7651E+06
2	8	0.3179E-03	0.8220E-03	0.2586E+07
3	9	0.2620E-02	0.6277E-02	0.2396E+07
4	10	0.5598E-02	0.5928E-02	0.1059E+07
5	11	0.1003E-01	0.3213E-01	0.3204E+07
6	12	0.1297E-01	0.3384E-02	0.2609E+06
7	13	0.1360E-01	0.6461E-02	0.4749E+06
8	14	0.1480E-01	0.9746E-02	0.6584E+06
9	15	0.1887E-01	0.5185E-01	0.2748E+07
10	16	0.2332E-01	0.3216E-01	0.1379E+07
11	17	0.2632E-01	0.4367E-01	0.1659E+07
12	18	0.2737E-01	0.1542E-01	0.5634E+06
13	19	0.2677E-01	0.5827E-01	0.2177E+07
14	20	0.000	0.000	0.000
15	21	0.2296E-01	0.7714E-01	0.3360E+07
16	22	0.1890E-01	0.1698E-01	0.8984E+06
17	23	0.000	0.000	0.000
18	24	0.000	0.000	0.000
19	25	0.000	0.000	0.000
20	26	0.000	0.000	0.000

At 1 Meter

1	7	0.000	-.7795E-02	0.7651E+06
2	8	0.000	-.1153E-02	0.2586E+07
3	9	0.3898E-01	0.9340E-01	0.2396E+07
4	10	0.2748E-01	0.2910E-01	0.1059E+07
5	11	0.6420E-01	0.2057	0.3204E+07
6	12	0.000	-.3949E-02	0.2609E+06
7	13	0.000	-.4940E-02	0.4749E+06
8	14	0.000	-.1868E-02	0.6584E+06
9	15	0.000	-.1455E-02	0.2748E+07
10	16	0.000	-.6557E-03	0.1379E+07
11	17	0.7046E-03	0.1169E-02	0.1659E+07
12	18	0.1298E-03	0.7311E-04	0.5634E+06
13	19	0.2179E-03	0.4743E-03	0.2177E+07
14	20	0.000	0.000	0.000
15	21	0.4107E-01	0.1380	0.3360E+07
16	22	0.6799E-01	0.6108E-01	0.8984E+06
17	23	0.000	0.000	0.000
18	24	0.000	0.000	0.000
19	25	0.000	0.000	0.000
20	26	0.000	0.000	0.000

Mass Balance Summary (g/ha)

(1) Period

(2) Years

(3) Applied/Formed

(4) Runoff

(5) Volatilized

(6) Decayed

(7) Uptake

(8) Leached

(9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.4450	817.0	163.0	0.8120E-05	595.0
2	8	1000.	0.000	0.8120	863.0	169.0	0.8220E-03	548.0
3	9	1000.	0.000	0.1910	935.0	90.50	0.6280E-02	519.0
4	10	1000.	0.000	0.6150	914.0	119.0	0.5930E-02	480.0
5	11	1000.	0.000	1.930	697.0	67.90	0.3210E-01	740.0
6	12	1000.	0.000	3.050	719.0	155.0	0.3380E-02	914.0

7	13	1000.	0.000	4.480	1100.	176.0	0.6460E-02	561.0
8	14	1000.	0.000	0.9540	734.0	272.0	0.9750E-02	570.0
9	15	1000.	0.000	2.140	787.0	175.0	0.5190E-01	602.0
10	16	1000.	0.000	0.3370	846.0	211.0	0.3220E-01	557.0
11	17	1000.	0.000	0.8950	802.0	218.0	0.4370E-01	514.0
12	18	1000.	0.000	1.440	672.0	81.10	0.1540E-01	817.0
13	19	1000.	0.000	0.4800	1050.	201.0	0.5830E-01	510.0
14	20	1000.	0.000	0.9050	681.0	177.0	0.000	688.0
15	21	1000.	0.000	0.3150	1000.	130.0	0.7710E-01	513.0
16	22	1000.	0.000	0.5360	859.0	109.0	0.1700E-01	553.0
17	23	1000.	0.000	0.2520	911.0	139.0	0.000	503.0
18	24	1000.	0.000	0.9800	749.0	160.0	0.000	606.0
19	25	1000.	0.000	0.7700	676.0	153.0	0.000	814.0
20	26	1000.	0.000	1.530	928.0	266.0	0.000	583.0
At 1 Meter								
1	7	1000.	0.000	0.4450	817.0	163.0	-.7800E-02	595.0
2	8	1000.	0.000	0.8120	863.0	169.0	-.1150E-02	548.0
3	9	1000.	0.000	0.1910	935.0	90.50	0.9340E-01	519.0
4	10	1000.	0.000	0.6150	914.0	119.0	0.2910E-01	480.0
5	11	1000.	0.000	1.930	697.0	67.90	0.2060	739.0
6	12	1000.	0.000	3.050	719.0	155.0	-.3950E-02	914.0
7	13	1000.	0.000	4.480	1100.	176.0	-.4940E-02	560.0
8	14	1000.	0.000	0.9540	734.0	272.0	-.1870E-02	570.0
9	15	1000.	0.000	2.140	787.0	175.0	-.1460E-02	601.0
10	16	1000.	0.000	0.3370	846.0	211.0	-.6560E-03	557.0
11	17	1000.	0.000	0.8950	802.0	218.0	0.1170E-02	513.0
12	18	1000.	0.000	1.440	672.0	81.10	0.7310E-04	817.0
13	19	1000.	0.000	0.4800	1050.	201.0	0.4740E-03	510.0
14	20	1000.	0.000	0.9050	681.0	177.0	0.000	688.0
15	21	1000.	0.000	0.3150	1000.	130.0	0.1380	513.0
16	22	1000.	0.000	0.5360	859.0	109.0	0.6110E-01	553.0
17	23	1000.	0.000	0.2520	911.0	139.0	0.000	502.0
18	24	1000.	0.000	0.9800	749.0	160.0	0.000	605.0
19	25	1000.	0.000	0.7700	676.0	153.0	0.000	814.0
20	26	1000.	0.000	1.530	928.0	266.0	0.000	583.0

Hydrology Summary (cm)

- (1) Period
- (2) Years
- (3) Precipitation
- (4) Runoff
- (5) ET
- (6) Leach - At 1 Meter
- (7) Leach - Bottom of Soil Core
- (8) Irrigation (cm)

1	7	47.23	0.000	36.51	7.651	7.651	0.000
2	8	84.89	0.000	57.18	25.86	25.86	0.000
3	9	59.45	0.000	35.80	23.96	23.96	0.000
4	10	57.28	0.000	46.38	10.59	10.59	0.000
5	11	68.07	0.000	39.05	32.04	32.04	0.000
6	12	37.87	0.000	36.06	2.609	2.609	0.000
7	13	34.89	0.000	26.33	4.749	4.749	0.000
8	14	38.69	0.000	34.42	6.584	6.584	0.000
9	15	57.80	0.000	29.98	27.48	27.48	0.000
10	16	58.96	0.000	45.99	13.79	13.79	0.000
11	17	58.31	0.000	39.13	16.59	16.59	0.000
12	18	29.55	0.000	32.91	5.634	5.634	0.000
13	19	67.53	0.000	38.48	21.77	21.77	0.000
14	20	26.70	0.000	34.11	0.000	0.000	0.000
15	21	80.84	0.000	37.92	33.60	33.60	0.000
16	22	43.43	0.000	35.57	8.984	8.984	0.000
17	23	36.99	0.000	39.12	0.000	0.000	0.000
18	24	37.78	0.000	39.78	0.000	0.000	0.000
19	25	31.63	0.000	32.92	0.000	0.000	0.000
20	26	27.72	0.000	26.10	0.000	0.000	0.000

8.2.11. PRZM T-CW-Z1.TAB File – Output for Thiva

C:\fgrat\Projects\runmanual2 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

- (1) Period
- (2) Years
- (3) Conc. (ug/l)
- (4) Mass (g/ha)
- (5) Leachate (l/ha)

Bottom of Soil Core

1	7	0.3684E-06	0.5810E-06	0.1577E+07
2	8	0.1772E-04	0.3186E-04	0.1798E+07
3	9	0.5773E-04	0.5101E-05	0.8836E+05
4	10	0.1819E-03	0.2455E-03	0.1350E+07
5	11	0.1167E-02	0.2156E-02	0.1847E+07
6	12	0.3313E-02	0.3866E-02	0.1167E+07
7	13	0.5322E-02	0.8589E-02	0.1614E+07
8	14	0.6652E-02	0.4696E-02	0.7060E+06
9	15	0.7277E-02	0.1681E-01	0.2310E+07
10	16	0.7103E-02	0.7224E-02	0.1017E+07
11	17	0.6773E-02	0.7274E-02	0.1074E+07
12	18	0.6474E-02	0.7458E-02	0.1152E+07

13	19	0.6597E-02	0.4399E-02	0.6668E+06
14	20	0.9933E-02	0.2232E-01	0.2247E+07
15	21	0.000	0.000	0.000
16	22	0.000	0.000	0.000
17	23	0.1635E-01	0.1439E-01	0.8801E+06
18	24	0.000	0.000	0.000
19	25	0.000	0.000	0.000
20	26	0.1799E-01	0.1408E-02	0.7827E+05
At 1 Meter				
1	7	0.8155E-02	0.1286E-01	0.1577E+07
2	8	0.2592E-01	0.4660E-01	0.1798E+07
3	9	0.4594E-02	0.4059E-03	0.8836E+05
4	10	0.3503E-03	0.4729E-03	0.1350E+07
5	11	0.2177E-02	0.4020E-02	0.1847E+07
6	12	0.9572E-02	0.1117E-01	0.1167E+07
7	13	0.2234E-02	0.3605E-02	0.1614E+07
8	14	0.9300E-02	0.6566E-02	0.7060E+06
9	15	0.5892E-02	0.1361E-01	0.2310E+07
10	16	0.1040	0.1058	0.1017E+07
11	17	0.3764E-01	0.4043E-01	0.1074E+07
12	18	0.1357E-01	0.1563E-01	0.1152E+07
13	19	0.000	-.8904E-03	0.6668E+06
14	20	0.4686E-02	0.1053E-01	0.2247E+07
15	21	0.000	0.000	0.000
16	22	0.000	0.000	0.000
17	23	0.2366E-02	0.2082E-02	0.8801E+06
18	24	0.000	0.000	0.000
19	25	0.000	0.000	0.000
20	26	0.000	-.1319E-03	0.7827E+05

Mass Balance Summary (g/ha)

- (1) Period
- (2) Years
- (3) Applied/Formed
- (4) Runoff
- (5) Volatilized
- (6) Decayed
- (7) Uptake
- (8) Leached
- (9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.4390	881.0	181.0	0.5810E-06	614.0
2	8	1000.	0.000	0.1270	873.0	144.0	0.3190E-04	589.0
3	9	1000.	0.000	0.2520	808.0	168.0	0.5100E-05	621.0
4	10	1000.	0.000	0.1160	884.0	139.0	0.2460E-03	589.0
5	11	1000.	0.000	0.5770	801.0	236.0	0.2160E-02	545.0
6	12	1000.	0.000	0.1970	800.0	171.0	0.3870E-02	582.0
7	13	1000.	0.000	0.1430	869.0	121.0	0.8590E-02	592.0
8	14	1000.	0.000	0.1920	854.0	168.0	0.4700E-02	565.0
9	15	1000.	0.000	0.1300	816.0	101.0	0.1680E-01	663.0
10	16	1000.	0.000	0.5990	827.0	188.0	0.7220E-02	637.0
11	17	1000.	0.000	0.7450	822.0	231.0	0.7270E-02	594.0
12	18	1000.	0.000	0.9800	734.0	134.0	0.7460E-02	728.0
13	19	1000.	0.000	0.2850	934.0	181.0	0.4400E-02	608.0
14	20	1000.	0.000	0.4280	812.0	181.0	0.2230E-01	614.0
15	21	1000.	0.000	0.2460	768.0	159.0	0.000	687.0
16	22	1000.	0.000	0.2750	907.0	133.0	0.000	645.0
17	23	1000.	0.000	0.2070	798.0	135.0	0.1440E-01	723.0
18	24	1000.	0.000	0.3160	830.0	154.0	0.000	729.0
19	25	1000.	0.000	0.5830	881.0	198.0	0.000	659.0
20	26	1000.	0.000	0.4470	804.0	166.0	0.1410E-02	678.0

At 1 Meter

1	7	1000.	0.000	0.4390	881.0	181.0	0.1290E-01	614.0
2	8	1000.	0.000	0.1270	873.0	144.0	0.4660E-01	589.0
3	9	1000.	0.000	0.2520	808.0	168.0	0.4060E-03	621.0
4	10	1000.	0.000	0.1160	884.0	139.0	0.4730E-03	589.0
5	11	1000.	0.000	0.5770	801.0	236.0	0.4020E-02	545.0
6	12	1000.	0.000	0.1970	800.0	171.0	0.1120E-01	582.0
7	13	1000.	0.000	0.1430	869.0	121.0	0.3610E-02	592.0
8	14	1000.	0.000	0.1920	854.0	168.0	0.6570E-02	565.0
9	15	1000.	0.000	0.1300	816.0	101.0	0.1360E-01	663.0
10	16	1000.	0.000	0.5990	827.0	188.0	0.1060	637.0
11	17	1000.	0.000	0.7450	822.0	231.0	0.4040E-01	594.0
12	18	1000.	0.000	0.9800	734.0	134.0	0.1560E-01	728.0
13	19	1000.	0.000	0.2850	934.0	181.0	-.8900E-03	608.0
14	20	1000.	0.000	0.4280	812.0	181.0	0.1050E-01	613.0
15	21	1000.	0.000	0.2460	768.0	159.0	0.000	687.0
16	22	1000.	0.000	0.2750	907.0	133.0	0.000	645.0
17	23	1000.	0.000	0.2070	798.0	135.0	0.2080E-02	723.0
18	24	1000.	0.000	0.3160	830.0	154.0	0.000	729.0
19	25	1000.	0.000	0.5830	881.0	198.0	0.000	659.0
20	26	1000.	0.000	0.4470	804.0	166.0	-.1320E-03	678.0

Hydrology Summary (cm)

- (1) Period
- (2) Years
- (3) Precipitation
- (4) Runoff

```

(5) ET
(6) Leach - At 1 Meter
(7) Leach - Bottom of Soil Core
(8) Irrigation (cm)
1  7  65.71  0.000  43.10  15.77  15.77  0.000
2  8  65.05  0.000  46.57  17.98  17.98  0.000
3  9  32.13  0.000  36.20  0.8836  0.8836  0.000
4 10  65.05  0.000  46.60  13.50  13.50  0.000
5 11  69.68  0.000  50.58  18.47  18.47  0.000
6 12  60.14  0.000  51.37  11.67  11.67  0.000
7 13  62.25  0.000  43.56  16.14  16.14  0.000
8 14  55.60  0.000  48.48  7.060  7.060  0.000
9 15  64.73  0.000  42.18  23.10  23.10  0.000
10 16  44.90  0.000  41.09  10.17  10.17  0.000
11 17  56.67  0.000  41.89  10.74  10.74  0.000
12 18  57.10  0.000  42.91  11.52  11.52  0.000
13 19  52.38  0.000  46.50  6.668  6.668  0.000
14 20  65.91  0.000  43.28  22.47  22.47  0.000
15 21  22.81  0.000  31.72  0.000  0.000  0.000
16 22  32.18  0.000  23.02  0.000  0.000  0.000
17 23  54.21  0.000  46.61  8.801  8.801  0.000
18 24  17.88  0.000  27.84  0.000  0.000  0.000
19 25  24.21  0.000  16.57  0.000  0.000  0.000
20 26  31.47  0.000  34.25  0.7827  0.7827  0.000

```

8.3. Example simulations Set C

8.3.1. PRZM MASTER.FPJ File

```

Project File Created: 2009- 9-17, 15:27:59
FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)
Parent Compound: FOCUS dummy D
PRZM3.21 beta
Crop: Cereals (Winter)

```

```

CROP          : 7 1
SCENARIO      : 111111111
ROTATION      : 1
RELATIONSHIP  : 1
CHEMICAL      : 1 0010111
  Chemical Name: FOCUS dummy D
  Molecular Wgt: 300.000
  Plant Upt Fct: 0.500
  Part Cff Mth : 1
  Part Cff Fct : 60.000
  Freund Exp   : 0.900
  Vapor Pres   : 0.1000E+00
  Solubility    : 0.9000E+02
  Degr. PH1     : 13.300
  Degr. PH2     : 0.000
  % Degr. PH1   : 0.000 0.000 0.000
  % Degr. PH2   : 0.000 0.000 0.000
  Bi-Phase      : 0
  Q10 FAC       : 2.580
  Q10 Temp      : 20.000
  Moisture Exp  : 0.700
  Moisture Cnt  : 100.000
  Moisture Type : 2 2 1
  Foliar 1/2    : 0.000
  Foliar Wash.  : 0.000
APPLICATION    : 122
  Days Rel     : -1
  Day          : -1
  Month        : 0
  CAM          : 1
  Depi         : 4.000
  Rate         : 1.0000
  Drift        : 0.000
  Eff          : 100.000
AGING FACTORS :
  Chemical 1   : 0 0 0 0 1.0000 1.0000
  1.0000 1.0000 1.0000 0.5000 0.5000
  Chemical 2   : 0 0 0 0 1.0000 1.0000
  1.0000 1.0000 1.0000 0.0000 0.0000
  Chemical 3   : 0 0 0 0 1.0000 1.0000
  1.0000 1.0000 1.0000 0.0000 0.0000

```

8.3.2. PRZM CNC-80.ANN Result Summary File

PRZM: Pesticide concentration (80th percentile)
Pesticide FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008) 9
Precipitation (mm)
Irrigation (mm)
Runoff (mm)
ET (mm)
Percolate 1m (mm)
Percolate (bottom of core) (mm)
Concentration at 1m (up to 3) (ug/L)
FOCUS dummy D C 0.6484E+03 0.0000E+00 0.0000E+00 0.5061E+03 0.1423E+03 0.1423E+03 0.2250E-02
FOCUS dummy D H 0.7865E+03 0.0000E+00 0.0000E+00 0.5209E+03 0.2666E+03 0.2656E+03 0.4730E+00
FOCUS dummy D J 0.6502E+03 0.0000E+00 0.0000E+00 0.4363E+03 0.2139E+03 0.2139E+03 0.8284E-01
FOCUS dummy D K 0.8991E+03 0.0000E+00 0.0000E+00 0.6032E+03 0.2971E+03 0.2959E+03 0.7057E-01
FOCUS dummy D N 0.1038E+04 0.0000E+00 0.0000E+00 0.6046E+03 0.4333E+03 0.4333E+03 0.7547E+00
FOCUS dummy D P 0.8573E+03 0.0000E+00 0.0000E+00 0.5390E+03 0.3190E+03 0.3182E+03 0.2112E+00
FOCUS dummy D O 0.1150E+04 0.0000E+00 0.0000E+00 0.6034E+03 0.5476E+03 0.5465E+03 0.7254E+00
FOCUS dummy D S 0.4928E+03 0.0000E+00 0.0000E+00 0.3719E+03 0.1209E+03 0.1209E+03 0.4238E-02
FOCUS dummy D T 0.5000E+03 0.0000E+00 0.0000E+00 0.4022E+03 0.9786E+02 0.9786E+02 0.1149E-02

8.3.3. PRZM C-CW-Z1.TAB File – Output for Châteaudun

C:\fgrat\Projects\runmanual3 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)
Concentration Summary

(1) Period
(2) Years
(3) Conc. (ug/l)
(4) Mass (g/ha)
(5) Leachate (l/ha)
Bottom of Soil Core
1 7 0.7567E-14 0.1334E-13 0.1763E+07
2 8 0.2202E-12 0.1699E-12 0.7717E+06
3 9 0.1319E-10 0.2400E-10 0.1819E+07
4 10 0.1039E-08 0.2334E-08 0.2247E+07
5 11 0.3182E-07 0.8159E-07 0.2564E+07
6 12 0.2639E-06 0.5436E-06 0.2060E+07
7 13 0.1514E-05 0.3527E-05 0.2330E+07
8 14 0.8452E-05 0.1906E-04 0.2255E+07
9 15 0.2957E-04 0.3652E-04 0.1235E+07
10 16 0.1075E-03 0.2531E-03 0.2354E+07
11 17 0.2466E-03 0.2166E-03 0.8783E+06
12 18 0.3974E-03 0.4276E-03 0.1076E+07
13 19 0.7150E-03 0.1232E-02 0.1723E+07
14 20 0.1266E-02 0.2264E-02 0.1789E+07
15 21 0.1692E-02 0.9526E-03 0.5630E+06
16 22 0.1836E-02 0.3645E-03 0.1985E+06
17 23 0.1976E-02 0.9810E-03 0.4965E+06
18 24 0.2236E-02 0.1636E-02 0.7318E+06
19 25 0.2468E-02 0.1784E-02 0.7229E+06
20 26 0.2728E-02 0.2411E-02 0.8838E+06
At 1 Meter
1 7 0.2692E-04 0.4746E-04 0.1763E+07
2 8 0.3126E-04 0.2412E-04 0.7717E+06
3 9 0.6141E-04 0.1117E-03 0.1819E+07
4 10 0.8318E-03 0.1869E-02 0.2247E+07
5 11 0.4142E-02 0.1062E-01 0.2564E+07
6 12 0.7811E-02 0.1609E-01 0.2060E+07
7 13 0.6124E-02 0.1427E-01 0.2330E+07
8 14 0.1880E-02 0.4240E-02 0.2255E+07
9 15 0.2620E-02 0.3236E-02 0.1235E+07
10 16 0.6160E-03 0.1450E-02 0.2354E+07
11 17 0.1749E-02 0.1536E-02 0.8783E+06
12 18 0.3691E-03 0.3972E-03 0.1076E+07
13 19 0.1043E-03 0.1797E-03 0.1723E+07
14 20 0.5601E-03 0.1002E-02 0.1789E+07
15 21 0.2634E-03 0.1483E-03 0.5630E+06
16 22 0.000 -0.1973E-04 0.1985E+06
17 23 0.000 -0.1898E-04 0.4965E+06
18 24 0.000 -0.2050E-04 0.7318E+06
19 25 0.000 -0.7539E-05 0.7229E+06
20 26 0.2237E-04 0.1977E-04 0.8838E+06

Mass Balance Summary (g/ha)

(1) Period
(2) Years

- (3) Applied/Formed
- (4) Runoff
- (5) Volatilized
- (6) Decayed
- (7) Uptake
- (8) Leached
- (9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.3020	753.0	90.90	0.1330E-13	573.0
2	8	1000.	0.000	0.1970	929.0	98.40	0.1700E-12	545.0
3	9	1000.	0.000	0.3100	975.0	121.0	0.2400E-10	449.0
4	10	1000.	0.000	0.3810	845.0	97.30	0.2330E-08	506.0
5	11	1000.	0.000	0.1700	930.0	105.0	0.8160E-07	473.0
6	12	1000.	0.000	0.3090	830.0	125.0	0.5440E-06	518.0
7	13	1000.	0.000	0.1550	902.0	115.0	0.3530E-05	499.0
8	14	1000.	0.000	0.2920	924.0	109.0	0.1910E-04	468.0
9	15	1000.	0.000	0.2850	830.0	79.80	0.3650E-04	556.0
10	16	1000.	0.000	0.2610	989.0	122.0	0.2530E-03	447.0
11	17	1000.	0.000	0.2950	781.0	114.0	0.2170E-03	553.0
12	18	1000.	0.000	0.2190	965.0	135.0	0.4280E-03	448.0
13	19	1000.	0.000	0.2370	842.0	101.0	0.1230E-02	506.0
14	20	1000.	0.000	0.3140	916.0	93.40	0.2260E-02	497.0
15	21	1000.	0.000	0.3680	933.0	101.0	0.9530E-03	463.0
16	22	1000.	0.000	0.1300	844.0	87.80	0.3640E-03	529.0
17	23	1000.	0.000	0.1910	858.0	109.0	0.9810E-03	564.0
18	24	1000.	0.000	0.1850	958.0	119.0	0.1640E-02	489.0
19	25	1000.	0.000	0.3950	805.0	119.0	0.1780E-02	561.0
20	26	1000.	0.000	0.2820	1020.	126.0	0.2410E-02	417.0

At 1 Meter

1	7	1000.	0.000	0.3020	753.0	90.90	0.4750E-04	573.0
2	8	1000.	0.000	0.1970	929.0	98.40	0.2410E-04	545.0
3	9	1000.	0.000	0.3100	975.0	121.0	0.1120E-03	449.0
4	10	1000.	0.000	0.3810	845.0	97.30	0.1870E-02	506.0
5	11	1000.	0.000	0.1700	930.0	105.0	0.1060E-01	473.0
6	12	1000.	0.000	0.3090	830.0	125.0	0.1610E-01	518.0
7	13	1000.	0.000	0.1550	902.0	115.0	0.1430E-01	499.0
8	14	1000.	0.000	0.2920	924.0	109.0	0.4240E-02	468.0
9	15	1000.	0.000	0.2850	830.0	79.80	0.3240E-02	556.0
10	16	1000.	0.000	0.2610	989.0	122.0	0.1450E-02	446.0
11	17	1000.	0.000	0.2950	781.0	114.0	0.1540E-02	553.0
12	18	1000.	0.000	0.2190	965.0	135.0	0.3970E-03	448.0
13	19	1000.	0.000	0.2370	842.0	101.0	0.1800E-03	506.0
14	20	1000.	0.000	0.3140	916.0	93.40	0.1000E-02	497.0
15	21	1000.	0.000	0.3680	933.0	101.0	0.1480E-03	463.0
16	22	1000.	0.000	0.1300	844.0	87.80	-.1970E-04	529.0
17	23	1000.	0.000	0.1910	858.0	109.0	-.1900E-04	564.0
18	24	1000.	0.000	0.1850	958.0	119.0	-.2050E-04	489.0
19	25	1000.	0.000	0.3950	805.0	119.0	-.7540E-05	561.0
20	26	1000.	0.000	0.2820	1020.	126.0	0.1980E-04	417.0

Hydrology Summary (cm)

- (1) Period
- (2) Years
- (3) Precipitation
- (4) Runoff
- (5) ET
- (6) Leach - At 1 Meter
- (7) Leach - Bottom of Soil Core
- (8) Irrigation (cm)

1	7	73.25	0.000	55.79	17.63	17.63	0.000
2	8	47.33	0.000	39.32	7.717	7.717	0.000
3	9	75.86	0.000	57.71	18.19	18.19	0.000
4	10	70.63	0.000	48.11	22.47	22.47	0.000
5	11	78.66	0.000	53.06	25.64	25.64	0.000
6	12	69.03	0.000	48.39	20.60	20.60	0.000
7	13	80.47	0.000	57.17	23.30	23.30	0.000
8	14	72.77	0.000	50.51	22.55	22.55	0.000
9	15	66.83	0.000	56.97	12.35	12.35	0.000
10	16	84.61	0.000	58.38	23.54	23.54	0.000
11	17	59.36	0.000	53.84	8.783	8.783	0.000
12	18	63.40	0.000	49.30	10.76	10.76	0.000
13	19	65.77	0.000	48.74	17.23	17.23	0.000
14	20	69.51	0.000	51.61	17.89	17.89	0.000
15	21	52.27	0.000	47.27	5.630	5.630	0.000
16	22	41.33	0.000	38.52	1.985	1.985	0.000
17	23	50.70	0.000	48.25	4.965	4.965	0.000
18	24	59.26	0.000	50.26	7.318	7.318	0.000

19	25	55.41	0.000	47.34	7.229	7.229	0.000
20	26	60.45	0.000	51.73	8.838	8.838	0.000

8.3.4. PRZM H-CW-Z1.TAB File – Output for Hamburg

C:\fgrat\Projects\runmanual3 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

(1) Period

(2) Years

(3) Conc. (ug/l)

(4) Mass (g/ha)

(5) Leachate (l/ha)

Bottom of Soil Core

1	7	0.8592	1.007	0.1172E+07
2	8	0.9782	1.345	0.1375E+07
3	9	0.4323	1.051	0.2431E+07
4	10	0.1224	0.3431	0.2803E+07
5	11	0.1652	0.3839	0.2324E+07
6	12	0.2088	0.9581	0.4588E+07
7	13	0.6114	2.489	0.4071E+07
8	14	0.5459	0.9422	0.1726E+07
9	15	0.3419	1.236	0.3615E+07
10	16	0.3830	1.124	0.2935E+07
11	17	0.4203	0.7443	0.1771E+07
12	18	0.2325	0.5234	0.2251E+07
13	19	0.1437	0.3713	0.2584E+07
14	20	0.1988	0.5995	0.3016E+07
15	21	0.2720	0.4229	0.1555E+07
16	22	0.2458	0.1877	0.7636E+06
17	23	0.1256	0.3338	0.2658E+07
18	24	0.4466E-01	0.1126	0.2521E+07
19	25	0.1886	0.8192	0.4343E+07
20	26	0.5760	2.654	0.4608E+07

At 1 Meter

1	7	1.053	1.250	0.1187E+07
2	8	0.4404	0.6056	0.1375E+07
3	9	0.1179	0.2902	0.2461E+07
4	10	0.1408	0.3958	0.2812E+07
5	11	0.1679	0.3918	0.2333E+07
6	12	0.3295	1.514	0.4595E+07
7	13	0.6264	2.554	0.4077E+07
8	14	0.4796	0.8325	0.1736E+07
9	15	0.2556	0.9270	0.3627E+07
10	16	0.4665	1.372	0.2941E+07
11	17	0.2681	0.4773	0.1780E+07
12	18	0.1305	0.2953	0.2262E+07
13	19	0.1664	0.4312	0.2591E+07
14	20	0.2576	0.7791	0.3024E+07
15	21	0.2257	0.3534	0.1566E+07
16	22	0.1397	0.1067	0.7636E+06
17	23	0.3696E-01	0.9895E-01	0.2677E+07
18	24	0.8057E-01	0.2044	0.2537E+07
19	25	0.3044	1.324	0.4350E+07
20	26	0.7452	3.445	0.4623E+07

Mass Balance Summary (g/ha)

(1) Period

(2) Years

(3) Applied/Forced

(4) Runoff

(5) Volatilized

(6) Decayed

(7) Uptake

(8) Leached

(9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.1620	859.0	57.00	1.010	692.0
2	8	1000.	0.000	0.1310	889.0	63.40	1.340	741.0
3	9	1000.	0.000	0.1590	1030.	69.90	1.050	640.0
4	10	1000.	0.000	0.2330	874.0	59.50	0.3430	709.0
5	11	1000.	0.000	0.1210	959.0	66.40	0.3840	681.0
6	12	1000.	0.000	0.1620	914.0	58.10	0.9580	706.0
7	13	1000.	0.000	0.1160	903.0	53.10	2.490	749.0
8	14	1000.	0.000	0.1960	1020.	64.10	0.9420	662.0
9	15	1000.	0.000	0.1850	880.0	38.30	1.240	740.0

10	16	1000.	0.000	0.2780	974.0	58.50	1.120	709.0
11	17	1000.	0.000	0.1140	941.0	73.90	0.7440	693.0
12	18	1000.	0.000	0.1460	1020.	76.10	0.5230	590.0
13	19	1000.	0.000	0.1510	894.0	60.50	0.3710	633.0
14	20	1000.	0.000	0.1310	934.0	54.70	0.5990	644.0
15	21	1000.	0.000	0.2370	884.0	45.50	0.4230	717.0
16	22	1000.	0.000	0.1630	984.0	73.90	0.1880	657.0
17	23	1000.	0.000	0.9880E-01	947.0	62.00	0.3340	648.0
18	24	1000.	0.000	0.1150	940.0	50.10	0.1130	659.0
19	25	1000.	0.000	0.1490	867.0	59.00	0.8190	731.0
20	26	1000.	0.000	0.1640	1060.	63.30	2.650	609.0
At 1 Meter								
1	7	1000.	0.000	0.1620	859.0	57.00	1.250	690.0
2	8	1000.	0.000	0.1310	889.0	63.40	0.6060	740.0
3	9	1000.	0.000	0.1590	1030.	69.90	0.2900	640.0
4	10	1000.	0.000	0.2330	874.0	59.50	0.3960	708.0
5	11	1000.	0.000	0.1210	959.0	66.40	0.3920	681.0
6	12	1000.	0.000	0.1620	914.0	58.10	1.510	705.0
7	13	1000.	0.000	0.1160	903.0	53.10	2.550	748.0
8	14	1000.	0.000	0.1960	1020.	64.10	0.8320	661.0
9	15	1000.	0.000	0.1850	880.0	38.30	0.9270	739.0
10	16	1000.	0.000	0.2780	974.0	58.50	1.370	708.0
11	17	1000.	0.000	0.1140	941.0	73.90	0.4770	692.0
12	18	1000.	0.000	0.1460	1020.	76.10	0.2950	590.0
13	19	1000.	0.000	0.1510	894.0	60.50	0.4310	633.0
14	20	1000.	0.000	0.1310	934.0	54.70	0.7790	643.0
15	21	1000.	0.000	0.2370	884.0	45.50	0.3530	717.0
16	22	1000.	0.000	0.1630	984.0	73.90	0.1070	657.0
17	23	1000.	0.000	0.9880E-01	947.0	62.00	0.9900E-01	648.0
18	24	1000.	0.000	0.1150	940.0	50.10	0.2040	659.0
19	25	1000.	0.000	0.1490	867.0	59.00	1.320	730.0
20	26	1000.	0.000	0.1640	1060.	63.30	3.440	607.0

Hydrology Summary (cm)

- (1) Period
- (2) Years
- (3) Precipitation
- (4) Runoff
- (5) ET
- (6) Leach - At 1 Meter
- (7) Leach - Bottom of Soil Core
- (8) Irrigation (cm)

1	7	60.24	0.000	48.52	11.87	11.72	0.000
2	8	54.02	0.000	41.68	13.75	13.75	0.000
3	9	78.65	0.000	52.93	24.61	24.31	0.000
4	10	77.75	0.000	48.99	28.12	28.03	0.000
5	11	73.15	0.000	50.64	23.33	23.24	0.000
6	12	98.84	0.000	52.96	45.95	45.88	0.000
7	13	94.08	0.000	53.37	40.77	40.71	0.000
8	14	70.08	0.000	52.82	17.36	17.26	0.000
9	15	80.97	0.000	44.82	36.27	36.15	0.000
10	16	78.08	0.000	48.40	29.41	29.35	0.000
11	17	75.04	0.000	57.44	17.80	17.71	0.000
12	18	78.01	0.000	55.71	22.62	22.51	0.000
13	19	83.12	0.000	57.33	25.91	25.84	0.000
14	20	84.07	0.000	53.86	30.24	30.16	0.000
15	21	66.80	0.000	51.40	15.66	15.55	0.000
16	22	60.84	0.000	53.37	7.636	7.636	0.000
17	23	82.15	0.000	55.35	26.77	26.58	0.000
18	24	77.40	0.000	52.10	25.37	25.21	0.000
19	25	99.93	0.000	56.50	43.50	43.43	0.000
20	26	99.73	0.000	53.65	46.23	46.08	0.000

8.3.5. PRZM J-CW-Z1.TAB File – Output for Jokioinen

C:\fgrat\Projects\runmanual3 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

- (1) Period
- (2) Years
- (3) Conc. (ug/l)
- (4) Mass (g/ha)
- (5) Leachate (l/ha)

Bottom of Soil Core

1	7	0.3544E-01	0.5944E-01	0.1677E+07
2	8	0.4304E-01	0.5186E-01	0.1205E+07
3	9	0.3971E-01	0.1055	0.2657E+07

4	10	0.2471E-01	0.9250E-01	0.3744E+07
5	11	0.1773E-01	0.3288E-01	0.1854E+07
6	12	0.2050E-01	0.3373E-01	0.1645E+07
7	13	0.2983E-01	0.1374	0.4606E+07
8	14	0.3596E-01	0.6253E-01	0.1739E+07
9	15	0.4403E-01	0.1604	0.3643E+07
10	16	0.6465E-01	0.2326	0.3598E+07
11	17	0.8991E-01	0.2040	0.2269E+07
12	18	0.1099	0.1756	0.1598E+07
13	19	0.1218	0.2147E-01	0.1763E+06
14	20	0.1230	0.9789E-02	0.7960E+05
15	21	0.1249	0.2150E-01	0.1721E+06
16	22	0.1304	0.6645E-01	0.5097E+06
17	23	0.1101	0.4624	0.4201E+07
18	24	0.3470E-01	0.1576	0.4542E+07
19	25	0.2398E-01	0.3640E-01	0.1518E+07
20	26	0.3253E-01	0.4385E-01	0.1348E+07

At 1 Meter

1	7	0.3303E-01	0.5539E-01	0.1677E+07
2	8	0.2328E-01	0.2805E-01	0.1205E+07
3	9	0.1126E-01	0.2991E-01	0.2657E+07
4	10	0.1897E-01	0.7103E-01	0.3744E+07
5	11	0.3560E-01	0.6600E-01	0.1854E+07
6	12	0.3435E-01	0.5650E-01	0.1645E+07
7	13	0.3930E-01	0.1810	0.4606E+07
8	14	0.5684E-01	0.9884E-01	0.1739E+07
9	15	0.7005E-01	0.2552	0.3643E+07
10	16	0.1068	0.3844	0.3598E+07
11	17	0.1495	0.3393	0.2269E+07
12	18	0.1668	0.2666	0.1598E+07
13	19	0.9563E-01	0.1686E-01	0.1763E+06
14	20	0.5639E-02	0.4489E-03	0.7960E+05
15	21	0.000	-.2063E-02	0.1721E+06
16	22	0.000	-.1325E-02	0.5097E+06
17	23	0.7377E-02	0.3099E-01	0.4201E+07
18	24	0.3360E-01	0.1526	0.4542E+07
19	25	0.5912E-01	0.8974E-01	0.1518E+07
20	26	0.5379E-01	0.7251E-01	0.1348E+07

Mass Balance Summary (g/ha)

- (1) Period
- (2) Years
- (3) Applied/Formed
- (4) Runoff
- (5) Volatilized
- (6) Decayed
- (7) Uptake
- (8) Leached
- (9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.1900	978.0	94.40	0.5940E-01	673.0
2	8	1000.	0.000	0.1940	720.0	76.60	0.5190E-01	878.0
3	9	1000.	0.000	0.1680	1050.	98.00	0.1060	726.0
4	10	1000.	0.000	0.1090	914.0	69.80	0.9250E-01	742.0
5	11	1000.	0.000	0.1660	914.0	88.70	0.3290E-01	739.0
6	12	1000.	0.000	0.1540	913.0	83.00	0.3370E-01	741.0
7	13	1000.	0.000	0.1400	952.0	70.70	0.1370	720.0
8	14	1000.	0.000	0.1790	901.0	67.00	0.6250E-01	751.0
9	15	1000.	0.000	0.1170	983.0	77.00	0.1600	692.0
10	16	1000.	0.000	0.1010	924.0	54.00	0.2330	713.0
11	17	1000.	0.000	0.1340	902.0	86.90	0.2040	724.0
12	18	1000.	0.000	0.1270	915.0	66.50	0.1760	742.0
13	19	1000.	0.000	0.1550	879.0	87.90	0.2150E-01	774.0
14	20	1000.	0.000	0.2050	898.0	89.80	0.9790E-02	787.0
15	21	1000.	0.000	0.2150	1010.	98.70	0.2150E-01	679.0
16	22	1000.	0.000	0.1360	852.0	81.60	0.6650E-01	746.0
17	23	1000.	0.000	0.1270	1060.	79.90	0.4620	607.0
18	24	1000.	0.000	0.1110	938.0	65.70	0.1580	603.0
19	25	1000.	0.000	0.1370	800.0	71.80	0.3640E-01	731.0
20	26	1000.	0.000	0.1970	907.0	76.70	0.4390E-01	747.0

At 1 Meter

1	7	1000.	0.000	0.1900	978.0	94.40	0.5540E-01	673.0
2	8	1000.	0.000	0.1940	720.0	76.60	0.2800E-01	878.0
3	9	1000.	0.000	0.1680	1050.	98.00	0.2990E-01	726.0
4	10	1000.	0.000	0.1090	914.0	69.80	0.7100E-01	742.0
5	11	1000.	0.000	0.1660	914.0	88.70	0.6600E-01	739.0
6	12	1000.	0.000	0.1540	913.0	83.00	0.5650E-01	741.0

7	13	1000.	0.000	0.1400	952.0	70.70	0.1810	720.0
8	14	1000.	0.000	0.1790	901.0	67.00	0.9880E-01	751.0
9	15	1000.	0.000	0.1170	983.0	77.00	0.2550	691.0
10	16	1000.	0.000	0.1010	924.0	54.00	0.3840	712.0
11	17	1000.	0.000	0.1340	902.0	86.90	0.3390	723.0
12	18	1000.	0.000	0.1270	915.0	66.50	0.2670	741.0
13	19	1000.	0.000	0.1550	879.0	87.90	0.1690E-01	774.0
14	20	1000.	0.000	0.2050	898.0	89.80	0.4490E-03	786.0
15	21	1000.	0.000	0.2150	1010.	98.70	-.2060E-02	679.0
16	22	1000.	0.000	0.1360	852.0	81.60	-.1330E-02	745.0
17	23	1000.	0.000	0.1270	1060.	79.90	0.3100E-01	607.0
18	24	1000.	0.000	0.1110	938.0	65.70	0.1530	602.0
19	25	1000.	0.000	0.1370	800.0	71.80	0.8970E-01	731.0
20	26	1000.	0.000	0.1970	907.0	76.70	0.7250E-01	747.0

Hydrology Summary (cm)

- (1) Period
- (2) Years
- (3) Precipitation
- (4) Runoff
- (5) ET
- (6) Leach - At 1 Meter
- (7) Leach - Bottom of Soil Core
- (8) Irrigation (cm)

1	7	65.88	0.000	48.21	16.77	16.77	0.000
2	8	51.17	0.000	38.67	12.05	12.05	0.000
3	9	72.96	0.000	44.53	26.57	26.57	0.000
4	10	84.76	0.000	46.83	37.44	37.44	0.000
5	11	62.97	0.000	45.88	18.54	18.54	0.000
6	12	71.74	0.000	47.35	16.45	16.45	0.000
7	13	95.09	0.000	53.05	46.06	46.06	0.000
8	14	55.80	0.000	44.57	17.39	17.39	0.000
9	15	86.57	0.000	43.48	36.43	36.43	0.000
10	16	73.57	0.000	42.61	35.98	35.98	0.000
11	17	74.52	0.000	44.64	22.69	22.69	0.000
12	18	41.22	0.000	34.22	15.98	15.98	0.000
13	19	32.57	0.000	34.34	1.763	1.763	0.000
14	20	43.09	0.000	39.18	0.7960	0.7960	0.000
15	21	37.50	0.000	37.37	1.721	1.721	0.000
16	22	39.35	0.000	36.24	5.097	5.097	0.000
17	23	96.40	0.000	50.88	42.01	42.01	0.000
18	24	96.40	0.000	50.98	45.42	45.42	0.000
19	25	62.97	0.000	44.91	15.18	15.18	0.000
20	26	55.80	0.000	44.57	13.48	13.48	0.000

8.3.6. PRZM K-CW-Z1.TAB File – Output for Kremsmünster

C:\fgrat\Projects\runmanual3 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

- (1) Period
- (2) Years
- (3) Conc. (ug/l)
- (4) Mass (g/ha)
- (5) Leachate (l/ha)

Bottom of Soil Core

1	7	0.1895E-02	0.6883E-02	0.3633E+07
2	8	0.8095E-02	0.1921E-01	0.2373E+07
3	9	0.2147E-01	0.1115	0.5194E+07
4	10	0.3232E-01	0.1575	0.4873E+07
5	11	0.7022E-01	0.3178	0.4526E+07
6	12	0.1786	0.5012	0.2806E+07
7	13	0.3180	1.460	0.4591E+07
8	14	0.3007	1.063	0.3535E+07
9	15	0.2206	0.3881	0.1759E+07
10	16	0.1632	0.3623	0.2220E+07
11	17	0.1108	0.3320	0.2996E+07
12	18	0.8048E-01	0.2098	0.2607E+07
13	19	0.5736E-01	0.2322	0.4048E+07
14	20	0.4290E-01	0.1039	0.2422E+07
15	21	0.3981E-01	0.1116	0.2803E+07
16	22	0.4121E-01	0.1167E-01	0.2832E+06
17	23	0.000	0.000	0.000
18	24	0.4631E-01	0.1789	0.3863E+07
19	25	0.5041E-01	0.1219	0.2418E+07
20	26	0.4565E-01	0.1018	0.2230E+07

At 1 Meter

1	7	0.2977E-01	0.1085	0.3644E+07
2	8	0.3436E-01	0.8216E-01	0.2391E+07
3	9	0.7100E-01	0.3697	0.5207E+07
4	10	0.2995	1.462	0.4882E+07
5	11	0.4466	2.026	0.4537E+07
6	12	0.1639	0.4614	0.2815E+07
7	13	0.5593E-01	0.2575	0.4604E+07
8	14	0.5728E-01	0.2034	0.3551E+07
9	15	0.7015E-01	0.1243	0.1772E+07
10	16	0.1858E-01	0.4145E-01	0.2231E+07
11	17	0.2045E-01	0.6148E-01	0.3007E+07
12	18	0.4639E-01	0.1215	0.2619E+07
13	19	0.5720E-01	0.2320	0.4056E+07
14	20	0.6927E-01	0.1686	0.2434E+07
15	21	0.2584E-01	0.7271E-01	0.2814E+07
16	22	0.3076E-01	0.8711E-02	0.2832E+06
17	23	0.000	0.000	0.000
18	24	0.1413E-01	0.5516E-01	0.3905E+07
19	25	0.3415E-01	0.8296E-01	0.2429E+07
20	26	0.4191E-01	0.9408E-01	0.2245E+07

Mass Balance Summary (g/ha)

- (1) Period
 (2) Years
 (3) Applied/Forced
 (4) Runoff
 (5) Volatilized
 (6) Decayed
 (7) Uptake
 (8) Leached
 (9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.1020	732.0	61.00	0.6880E-02	904.0
2	8	1000.	0.000	0.1250	957.0	88.80	0.1920E-01	858.0
3	9	1000.	0.000	0.1370	982.0	85.60	0.1120	789.0
4	10	1000.	0.000	0.1580	876.0	81.00	0.1580	828.0
5	11	1000.	0.000	0.8740E-01	962.0	89.40	0.3180	781.0
6	12	1000.	0.000	0.1300	826.0	80.80	0.5010	873.0
7	13	1000.	0.000	0.1570	904.0	107.0	1.460	859.0
8	14	1000.	0.000	0.1300	1020.	81.70	1.060	754.0
9	15	1000.	0.000	0.1770	814.0	70.60	0.3880	867.0
10	16	1000.	0.000	0.1800	885.0	109.0	0.3620	876.0
11	17	1000.	0.000	0.1010	979.0	87.10	0.3320	808.0
12	18	1000.	0.000	0.1530	931.0	84.50	0.2100	790.0
13	19	1000.	0.000	0.1330	897.0	89.40	0.2320	803.0
14	20	1000.	0.000	0.1280	824.0	76.10	0.1040	905.0
15	21	1000.	0.000	0.9830E-01	1020.	81.40	0.1120	807.0
16	22	1000.	0.000	0.1380	842.0	77.50	0.1170E-01	886.0
17	23	1000.	0.000	0.1850	908.0	115.0	0.000	864.0
18	24	1000.	0.000	0.9800E-01	975.0	75.70	0.1790	813.0
19	25	1000.	0.000	0.9320E-01	904.0	90.60	0.1220	815.0
20	26	1000.	0.000	0.1330	1030.	90.20	0.1020	693.0

At 1 Meter

1	7	1000.	0.000	0.1020	732.0	61.00	0.1080	903.0
2	8	1000.	0.000	0.1250	957.0	88.80	0.8220E-01	857.0
3	9	1000.	0.000	0.1370	982.0	85.60	0.3700	788.0
4	10	1000.	0.000	0.1580	876.0	81.00	1.460	826.0
5	11	1000.	0.000	0.8740E-01	962.0	89.40	2.030	777.0
6	12	1000.	0.000	0.1300	826.0	80.80	0.4610	870.0
7	13	1000.	0.000	0.1570	904.0	107.0	0.2580	856.0
8	14	1000.	0.000	0.1300	1020.	81.70	0.2030	753.0
9	15	1000.	0.000	0.1770	814.0	70.60	0.1240	865.0
10	16	1000.	0.000	0.1800	885.0	109.0	0.4140E-01	875.0
11	17	1000.	0.000	0.1010	979.0	87.10	0.6150E-01	808.0
12	18	1000.	0.000	0.1530	931.0	84.50	0.1220	790.0
13	19	1000.	0.000	0.1330	897.0	89.40	0.2320	803.0
14	20	1000.	0.000	0.1280	824.0	76.10	0.1690	905.0
15	21	1000.	0.000	0.9830E-01	1020.	81.40	0.7270E-01	807.0
16	22	1000.	0.000	0.1380	842.0	77.50	0.8710E-02	885.0
17	23	1000.	0.000	0.1850	908.0	115.0	0.000	864.0
18	24	1000.	0.000	0.9800E-01	975.0	75.70	0.5520E-01	813.0
19	25	1000.	0.000	0.9320E-01	904.0	90.60	0.8300E-01	815.0
20	26	1000.	0.000	0.1330	1030.	90.20	0.9410E-01	693.0

Hydrology Summary (cm)

- (1) Period

(2)	Years						
(3)	Precipitation						
(4)	Runoff						
(5)	ET						
(6)	Leach - At 1 Meter						
(7)	Leach - Bottom of Soil Core						
(8)	Irrigation (cm)						
1	7	99.32	0.000	61.90	36.44	36.33	0.000
2	8	88.06	0.000	64.06	23.91	23.73	0.000
3	9	117.0	0.000	66.39	52.07	51.94	0.000
4	10	110.5	0.000	61.70	48.82	48.73	0.000
5	11	109.9	0.000	64.66	45.37	45.26	0.000
6	12	90.37	0.000	62.15	28.15	28.06	0.000
7	13	109.5	0.000	63.76	46.04	45.91	0.000
8	14	93.30	0.000	58.01	35.51	35.35	0.000
9	15	83.59	0.000	66.01	17.72	17.59	0.000
10	16	82.02	0.000	59.67	22.31	22.20	0.000
11	17	92.82	0.000	62.98	30.07	29.96	0.000
12	18	89.33	0.000	63.41	26.19	26.07	0.000
13	19	100.4	0.000	59.93	40.56	40.48	0.000
14	20	83.24	0.000	58.89	24.34	24.22	0.000
15	21	91.97	0.000	63.93	28.14	28.03	0.000
16	22	31.22	0.000	40.46	2.832	2.832	0.000
17	23	31.45	0.000	26.82	0.000	0.000	0.000
18	24	110.9	0.000	64.94	39.05	38.63	0.000
19	25	88.69	0.000	64.35	24.29	24.18	0.000
20	26	94.67	0.000	72.42	22.45	22.30	0.000

8.3.7. PRZM N-CW-Z1.TAB File – Output for Okehampton

C:\fgrat\Projects\runmanual3 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

(1) Period

(2) Years

(3) Conc. (ug/l)

(4) Mass (g/ha)

(5) Leachate (l/ha)

Bottom of Soil Core

1	7	0.8907	4.351	0.4885E+07
2	8	0.5979	0.9548	0.1597E+07
3	9	0.2747	1.219	0.4438E+07
4	10	0.2134	0.6587	0.3086E+07
5	11	0.2695	1.271	0.4717E+07
6	12	0.3727	1.783	0.4784E+07
7	13	0.5506	3.413	0.6199E+07
8	14	0.3584	1.099	0.3066E+07
9	15	0.2131	0.5312	0.2493E+07
10	16	0.2041	1.109	0.5433E+07
11	17	0.2930	0.7592	0.2591E+07
12	18	0.2683	1.348	0.5025E+07
13	19	0.5440	2.972	0.5463E+07
14	20	1.164	4.950	0.4253E+07
15	21	0.4971	1.780	0.3581E+07
16	22	0.1772	0.7644	0.4313E+07
17	23	0.4815	2.972	0.6173E+07
18	24	0.8007	3.846	0.4803E+07
19	25	0.3653	1.674	0.4582E+07
20	26	0.4743	2.454	0.5174E+07

At 1 Meter

1	7	0.7623	3.724	0.4885E+07
2	8	0.2373	0.3790	0.1597E+07
3	9	0.1666	0.7392	0.4438E+07
4	10	0.2703	0.8340	0.3086E+07
5	11	0.2762	1.303	0.4717E+07
6	12	0.5337	2.553	0.4784E+07
7	13	0.4793	2.971	0.6199E+07
8	14	0.2095	0.6422	0.3066E+07
9	15	0.2298	0.5730	0.2493E+07
10	16	0.2240	1.217	0.5433E+07
11	17	0.3475	0.9005	0.2591E+07
12	18	0.2207	1.109	0.5025E+07
13	19	0.9758	5.331	0.5463E+07
14	20	0.8345	3.549	0.4253E+07
15	21	0.2130	0.7629	0.3581E+07
16	22	0.1484	0.6400	0.4313E+07
17	23	0.8374	5.169	0.6173E+07
18	24	0.4893	2.350	0.4803E+07

19	25	0.2831	1.297	0.4582E+07
20	26	0.7470	3.865	0.5174E+07

Mass Balance Summary (g/ha)

- (1) Period
- (2) Years
- (3) Applied/Formed
- (4) Runoff
- (5) Volatilized
- (6) Decayed
- (7) Uptake
- (8) Leached
- (9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.1940	822.0	65.40	4.350	528.0
2	8	1000.	0.000	0.1900	960.0	82.00	0.9550	485.0
3	9	1000.	0.000	0.3550	985.0	77.80	1.220	419.0
4	10	1000.	0.000	0.1730	822.0	91.00	0.6590	506.0
5	11	1000.	0.000	0.2090	966.0	105.0	1.270	433.0
6	12	1000.	0.000	0.1270	847.0	95.90	1.780	488.0
7	13	1000.	0.000	0.1020	919.0	59.90	3.410	505.0
8	14	1000.	0.000	0.1890	971.0	97.10	1.100	437.0
9	15	1000.	0.000	0.2270	837.0	90.00	0.5310	508.0
10	16	1000.	0.000	0.1640	1000.	80.00	1.110	425.0
11	17	1000.	0.000	0.3300	820.0	98.90	0.7590	506.0
12	18	1000.	0.000	0.1520	996.0	74.30	1.350	432.0
13	19	1000.	0.000	0.2850	877.0	79.20	2.970	472.0
14	20	1000.	0.000	0.2740	924.0	91.30	4.950	453.0
15	21	1000.	0.000	0.2690	936.0	77.90	1.780	438.0
16	22	1000.	0.000	0.2090	902.0	60.30	0.7640	473.0
17	23	1000.	0.000	0.9270E-01	894.0	55.70	2.970	521.0
18	24	1000.	0.000	0.1260	962.0	64.00	3.850	493.0
19	25	1000.	0.000	0.1650	859.0	71.10	1.670	557.0
20	26	1000.	0.000	0.1920	1060.	76.30	2.450	419.0

At 1 Meter

1	7	1000.	0.000	0.1940	822.0	65.40	3.720	526.0
2	8	1000.	0.000	0.1900	960.0	82.00	0.3790	484.0
3	9	1000.	0.000	0.3550	985.0	77.80	0.7390	419.0
4	10	1000.	0.000	0.1730	822.0	91.00	0.8340	506.0
5	11	1000.	0.000	0.2090	966.0	105.0	1.300	432.0
6	12	1000.	0.000	0.1270	847.0	95.90	2.550	486.0
7	13	1000.	0.000	0.1020	919.0	59.90	2.970	504.0
8	14	1000.	0.000	0.1890	971.0	97.10	0.6420	437.0
9	15	1000.	0.000	0.2270	837.0	90.00	0.5730	507.0
10	16	1000.	0.000	0.1640	1000.	80.00	1.220	424.0
11	17	1000.	0.000	0.3300	820.0	98.90	0.9010	506.0
12	18	1000.	0.000	0.1520	996.0	74.30	1.110	431.0
13	19	1000.	0.000	0.2850	877.0	79.20	5.330	469.0
14	20	1000.	0.000	0.2740	924.0	91.30	3.550	451.0
15	21	1000.	0.000	0.2690	936.0	77.90	0.7630	437.0
16	22	1000.	0.000	0.2090	902.0	60.30	0.6400	472.0
17	23	1000.	0.000	0.9270E-01	894.0	55.70	5.170	518.0
18	24	1000.	0.000	0.1260	962.0	64.00	2.350	491.0
19	25	1000.	0.000	0.1650	859.0	71.10	1.300	557.0
20	26	1000.	0.000	0.1920	1060.	76.30	3.860	417.0

Hydrology Summary (cm)

- (1) Period
- (2) Years
- (3) Precipitation
- (4) Runoff
- (5) ET
- (6) Leach - At 1 Meter
- (7) Leach - Bottom of Soil Core
- (8) Irrigation (cm)

1	7	108.3	0.000	59.79	48.85	48.85	0.000
2	8	67.33	0.000	51.02	15.97	15.97	0.000
3	9	105.6	0.000	61.29	44.38	44.38	0.000
4	10	89.91	0.000	58.74	30.86	30.86	0.000
5	11	109.7	0.000	62.85	47.17	47.17	0.000
6	12	110.4	0.000	62.81	47.84	47.84	0.000
7	13	123.8	0.000	61.49	61.99	61.99	0.000
8	14	103.0	0.000	72.70	30.66	30.66	0.000
9	15	90.61	0.000	65.58	24.93	24.93	0.000
10	16	116.1	0.000	61.60	54.33	54.33	0.000
11	17	90.17	0.000	63.83	25.91	25.91	0.000

12	18	109.2	0.000	59.28	50.25	50.25	0.000
13	19	115.7	0.000	61.38	54.63	54.63	0.000
14	20	103.0	0.000	61.03	42.53	42.53	0.000
15	21	93.78	0.000	57.31	35.81	35.81	0.000
16	22	101.6	0.000	58.26	43.13	43.13	0.000
17	23	111.3	0.000	49.76	61.73	61.73	0.000
18	24	113.2	0.000	65.18	48.03	48.03	0.000
19	25	97.17	0.000	51.14	45.82	45.82	0.000
20	26	115.8	0.000	64.10	51.74	51.74	0.000

8.3.8. PRZM O-CW-Z1.TAB File – Output for Piacenza

C:\fgrat\Projects\runmanual3 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

(1) Period

(2) Years

(3) Conc. (ug/l)

(4) Mass (g/ha)

(5) Leachate (l/ha)

Bottom of Soil Core

1	7	0.2459E-01	0.1067	0.4339E+07
2	8	0.9725E-02	0.6603E-01	0.6790E+07
3	9	0.6588	6.199	0.9410E+07
4	10	1.460	12.95	0.8868E+07
5	11	2.255	18.82	0.8347E+07
6	12	2.855	9.097	0.3186E+07
7	13	1.163	6.034	0.5190E+07
8	14	0.2455	1.257	0.5121E+07
9	15	0.1745	0.7824	0.4483E+07
10	16	0.1615	1.367	0.8466E+07
11	17	0.3730	2.433	0.6523E+07
12	18	0.4279	2.666	0.6230E+07
13	19	0.3717	3.425	0.9215E+07
14	20	0.2458	0.8319	0.3384E+07
15	21	0.1869	0.7780	0.4163E+07
16	22	0.7672E-01	0.3265	0.4256E+07
17	23	0.7304E-01	0.3727	0.5103E+07
18	24	0.1253	0.1158	0.9241E+06
19	25	0.1137	0.2330	0.2050E+07
20	26	0.6642E-01	0.2162	0.3255E+07

At 1 Meter

1	7	0.2011E-02	0.8749E-02	0.4350E+07
2	8	0.1412E-01	0.9617E-01	0.6809E+07
3	9	1.523	14.34	0.9418E+07
4	10	0.9659	8.573	0.8876E+07
5	11	3.327	27.81	0.8360E+07
6	12	1.191	3.804	0.3195E+07
7	13	0.3864E-03	0.2009E-02	0.5199E+07
8	14	0.1209	0.6209	0.5135E+07
9	15	0.1584	0.7113	0.4491E+07
10	16	0.2527	2.141	0.8474E+07
11	17	0.4116	2.690	0.6535E+07
12	18	0.4849	3.027	0.6242E+07
13	19	0.2685	2.477	0.9226E+07
14	20	0.2406	0.8160	0.3391E+07
15	21	0.7506E-03	0.3133E-02	0.4174E+07
16	22	0.3048E-01	0.1302	0.4272E+07
17	23	0.1636	0.8380	0.5121E+07
18	24	0.1239E-01	0.1158E-01	0.9348E+06
19	25	0.000	-.1399E-01	0.2057E+07
20	26	0.1981E-03	0.6466E-03	0.3264E+07

Mass Balance Summary (g/ha)

(1) Period

(2) Years

(3) Applied/Forced

(4) Runoff

(5) Volatilized

(6) Decayed

(7) Uptake

(8) Leached

(9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.1270	840.0	72.70	0.1070	660.0
2	8	1000.	0.000	0.1410	976.0	70.80	0.6600E-01	611.0
3	9	1000.	0.000	0.1210	969.0	46.10	6.200	589.0

4	10	1000.	0.000	0.1390	942.0	42.80	12.90	591.0
5	11	1000.	0.000	0.5590	857.0	57.60	18.80	657.0
6	12	1000.	0.000	0.3510	880.0	113.0	9.100	656.0
7	13	1000.	0.000	0.5890	927.0	85.40	6.030	635.0
8	14	1000.	0.000	0.1810	936.0	56.60	1.260	642.0
9	15	1000.	0.000	0.5660	965.0	99.40	0.7820	575.0
10	16	1000.	0.000	0.9080E-01	904.0	56.70	1.370	613.0
11	17	1000.	0.000	0.9370E-01	913.0	78.10	2.430	619.0
12	18	1000.	0.000	0.2130	887.0	94.50	2.670	633.0
13	19	1000.	0.000	0.2060	964.0	83.40	3.430	582.0
14	20	1000.	0.000	0.1560	795.0	104.0	0.8320	685.0
15	21	1000.	0.000	0.3380	966.0	198.0	0.7780	519.0
16	22	1000.	0.000	0.3770	747.0	128.0	0.3270	642.0
17	23	1000.	0.000	0.2920	918.0	107.0	0.3730	619.0
18	24	1000.	0.000	0.2640	916.0	132.0	0.1160	570.0
19	25	1000.	0.000	0.1750	848.0	104.0	0.2330	616.0
20	26	1000.	0.000	0.2530	944.0	101.0	0.2160	569.0
At 1 Meter								
1	7	1000.	0.000	0.1270	840.0	72.70	0.8750E-02	660.0
2	8	1000.	0.000	0.1410	976.0	70.80	0.9620E-01	611.0
3	9	1000.	0.000	0.1210	969.0	46.10	14.30	581.0
4	10	1000.	0.000	0.1390	942.0	42.80	8.570	587.0
5	11	1000.	0.000	0.5590	857.0	57.60	27.80	644.0
6	12	1000.	0.000	0.3510	880.0	113.0	3.800	648.0
7	13	1000.	0.000	0.5890	927.0	85.40	0.2010E-02	634.0
8	14	1000.	0.000	0.1810	936.0	56.60	0.6210	641.0
9	15	1000.	0.000	0.5660	965.0	99.40	0.7110	574.0
10	16	1000.	0.000	0.9080E-01	904.0	56.70	2.140	611.0
11	17	1000.	0.000	0.9370E-01	913.0	78.10	2.690	617.0
12	18	1000.	0.000	0.2130	887.0	94.50	3.030	631.0
13	19	1000.	0.000	0.2060	964.0	83.40	2.480	581.0
14	20	1000.	0.000	0.1560	795.0	104.0	0.8160	684.0
15	21	1000.	0.000	0.3380	966.0	198.0	0.3130E-02	518.0
16	22	1000.	0.000	0.3770	747.0	128.0	0.1300	641.0
17	23	1000.	0.000	0.2920	918.0	107.0	0.8380	619.0
18	24	1000.	0.000	0.2640	916.0	132.0	0.1160E-01	569.0
19	25	1000.	0.000	0.1750	848.0	104.0	-.1400E-01	615.0
20	26	1000.	0.000	0.2530	944.0	101.0	0.6470E-03	569.0

Hydrology Summary (cm)

- (1) Period
- (2) Years
- (3) Precipitation
- (4) Runoff
- (5) ET
- (6) Leach - At 1 Meter
- (7) Leach - Bottom of Soil Core
- (8) Irrigation (cm)

1	7	92.42	0.000	50.52	43.50	43.39	0.000
2	8	117.6	0.000	48.23	68.09	67.90	0.000
3	9	156.3	0.000	62.58	94.18	94.10	0.000
4	10	140.0	0.000	50.89	88.76	88.68	0.000
5	11	140.4	0.000	56.97	83.60	83.47	0.000
6	12	101.8	0.000	70.47	31.95	31.86	0.000
7	13	111.0	0.000	58.56	51.99	51.90	0.000
8	14	106.8	0.000	56.10	51.35	51.21	0.000
9	15	113.1	0.000	69.08	44.91	44.83	0.000
10	16	150.8	0.000	65.03	84.74	84.66	0.000
11	17	123.5	0.000	58.04	65.35	65.23	0.000
12	18	130.1	0.000	67.85	62.42	62.30	0.000
13	19	153.2	0.000	61.02	92.26	92.15	0.000
14	20	103.1	0.000	73.51	33.91	33.84	0.000
15	21	112.3	0.000	67.00	41.74	41.63	0.000
16	22	95.19	0.000	52.02	42.72	42.56	0.000
17	23	107.3	0.000	57.71	51.21	51.03	0.000
18	24	66.14	0.000	56.71	9.348	9.241	0.000
19	25	86.41	0.000	64.68	20.57	20.50	0.000
20	26	92.32	0.000	59.77	32.64	32.55	0.000

8.3.9. PRZM P-CW-Z1.TAB File – Output for Porto

C:\fgrat\Projects\runmanual3 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

- (1) Period
- (2) Years

(3) Conc. (ug/l)
 (4) Mass (g/ha)
 (5) Leachate (l/ha)

Bottom of Soil Core

1	7	0.3054E-01	0.1594	0.5219E+07
2	8	0.7101E-01	0.3064	0.4315E+07
3	9	0.1236	0.4209	0.3406E+07
4	10	0.4256	2.479	0.5825E+07
5	11	0.3688	1.644	0.4458E+07
6	12	0.9738E-01	0.3305	0.3394E+07
7	13	0.4133E-01	0.1679E-02	0.4062E+05
8	14	0.8519	6.084	0.7142E+07
9	15	0.4788	0.6354	0.1327E+07
10	16	0.1331	0.5691	0.4275E+07
11	17	0.1061	0.2681	0.2527E+07
12	18	0.1483	0.3185	0.2148E+07
13	19	0.1346	0.2307	0.1714E+07
14	20	0.3005E-01	0.5385E-01	0.1792E+07
15	21	0.8587E-02	0.3495E-02	0.4070E+06
16	22	0.3628E-02	0.5380E-02	0.1483E+07
17	23	0.1788E-02	0.1674E-02	0.9364E+06
18	24	0.1154E-01	0.5407E-01	0.4684E+07
19	25	0.3393E-01	0.1206	0.3554E+07
20	26	0.3696E-01	0.1848	0.5000E+07

At 1 Meter

1	7	0.4378E-01	0.2287	0.5224E+07
2	8	0.8460E-01	0.3660	0.4326E+07
3	9	0.1069	0.3646	0.3412E+07
4	10	0.5258	3.065	0.5829E+07
5	11	0.2556	1.142	0.4468E+07
6	12	0.6188E-01	0.2104	0.3400E+07
7	13	0.000	-1.931E-03	0.4788E+05
8	14	0.9340	6.679	0.7151E+07
9	15	0.2525	0.3351	0.1327E+07
10	16	0.8053E-01	0.3454	0.4289E+07
11	17	0.1285	0.3254	0.2533E+07
12	18	0.1699	0.3650	0.2148E+07
13	19	0.3413E-01	0.5904E-01	0.1730E+07
14	20	0.7460E-02	0.1342E-01	0.1799E+07
15	21	0.2808E-02	0.1143E-02	0.4070E+06
16	22	0.1243E-02	0.1863E-02	0.1499E+07
17	23	0.1733E-02	0.1635E-02	0.9436E+06
18	24	0.1497E-01	0.7023E-01	0.4692E+07
19	25	0.5935E-01	0.2114	0.3562E+07
20	26	0.1706E-01	0.8541E-01	0.5006E+07

Mass Balance Summary (g/ha)

(1) Period
 (2) Years
 (3) Applied/Formed
 (4) Runoff
 (5) Volatilized
 (6) Decayed
 (7) Uptake
 (8) Leached
 (9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.9110E-01	906.0	102.0	0.1590	916.0
2	8	1000.	0.000	0.9580E-01	922.0	93.50	0.3060	900.0
3	9	1000.	0.000	0.1100	891.0	74.80	0.4210	934.0
4	10	1000.	0.000	0.1410	945.0	81.50	2.480	903.0
5	11	1000.	0.000	0.1670	999.0	95.90	1.640	806.0
6	12	1000.	0.000	0.9570E-01	843.0	96.30	0.3300	866.0
7	13	1000.	0.000	0.2570	801.0	142.0	0.1680E-02	924.0
8	14	1000.	0.000	0.9330E-01	958.0	84.60	6.080	876.0
9	15	1000.	0.000	0.2100	904.0	116.0	0.6350	852.0
10	16	1000.	0.000	0.6370E-01	840.0	80.80	0.5690	934.0
11	17	1000.	0.000	0.1630	884.0	89.10	0.2680	962.0
12	18	1000.	0.000	0.1720	945.0	102.0	0.3180	913.0
13	19	1000.	0.000	0.8840E-01	976.0	108.0	0.2310	827.0
14	20	1000.	0.000	0.8250E-01	837.0	90.70	0.5390E-01	901.0
15	21	1000.	0.000	0.2900	881.0	125.0	0.3500E-02	894.0
16	22	1000.	0.000	0.4530	846.0	178.0	0.5380E-02	869.0
17	23	1000.	0.000	0.2700	892.0	148.0	0.1670E-02	828.0
18	24	1000.	0.000	0.3250	866.0	169.0	0.5410E-01	792.0
19	25	1000.	0.000	0.1610	894.0	102.0	0.1210	790.0
20	26	1000.	0.000	0.2100	748.0	124.0	0.1850	924.0

At 1 Meter

1	7	1000.	0.000	0.9110E-01	906.0	102.0	0.2290	916.0
2	8	1000.	0.000	0.9580E-01	922.0	93.50	0.3660	900.0
3	9	1000.	0.000	0.1100	891.0	74.80	0.3650	934.0
4	10	1000.	0.000	0.1410	945.0	81.50	3.060	902.0
5	11	1000.	0.000	0.1670	999.0	95.90	1.140	806.0
6	12	1000.	0.000	0.9570E-01	843.0	96.30	0.2100	866.0
7	13	1000.	0.000	0.2570	801.0	142.0	-.1930E-03	924.0
8	14	1000.	0.000	0.9330E-01	958.0	84.60	6.680	875.0
9	15	1000.	0.000	0.2100	904.0	116.0	0.3350	852.0
10	16	1000.	0.000	0.6370E-01	840.0	80.80	0.3450	934.0
11	17	1000.	0.000	0.1630	884.0	89.10	0.3250	962.0
12	18	1000.	0.000	0.1720	945.0	102.0	0.3650	913.0
13	19	1000.	0.000	0.8840E-01	976.0	108.0	0.5900E-01	827.0
14	20	1000.	0.000	0.8250E-01	837.0	90.70	0.1340E-01	901.0
15	21	1000.	0.000	0.2900	881.0	125.0	0.1140E-02	894.0
16	22	1000.	0.000	0.4530	846.0	178.0	0.1860E-02	869.0
17	23	1000.	0.000	0.2700	892.0	148.0	0.1640E-02	828.0
18	24	1000.	0.000	0.3250	866.0	169.0	0.7020E-01	792.0
19	25	1000.	0.000	0.1610	894.0	102.0	0.2110	790.0
20	26	1000.	0.000	0.2100	748.0	124.0	0.8540E-01	924.0

Hydrology Summary (cm)

- (1) Period
- (2) Years
- (3) Precipitation
- (4) Runoff
- (5) ET
- (6) Leach - At 1 Meter
- (7) Leach - Bottom of Soil Core
- (8) Irrigation (cm)

1	7	111.9	0.000	59.84	52.24	52.19	0.000
2	8	100.3	0.000	56.79	43.26	43.15	0.000
3	9	88.93	0.000	55.38	34.12	34.06	0.000
4	10	110.1	0.000	51.45	58.29	58.25	0.000
5	11	94.80	0.000	50.24	44.68	44.58	0.000
6	12	91.05	0.000	57.52	34.00	33.94	0.000
7	13	60.58	0.000	59.66	0.4788	0.4062	0.000
8	14	128.9	0.000	57.69	71.51	71.42	0.000
9	15	57.44	0.000	46.70	13.27	13.27	0.000
10	16	99.38	0.000	53.94	42.89	42.75	0.000
11	17	70.10	0.000	44.77	25.33	25.27	0.000
12	18	68.62	0.000	48.80	21.48	21.48	0.000
13	19	69.28	0.000	50.84	17.30	17.14	0.000
14	20	68.40	0.000	51.32	17.99	17.92	0.000
15	21	58.72	0.000	56.97	4.070	4.070	0.000
16	22	67.85	0.000	50.14	14.99	14.83	0.000
17	23	57.34	0.000	48.66	9.436	9.364	0.000
18	24	102.6	0.000	55.22	46.92	46.84	0.000
19	25	97.53	0.000	61.24	35.62	35.54	0.000
20	26	110.7	0.000	60.77	50.06	50.00	0.000

8.3.10. PRZM S-CW-Z1.TAB File – Output for Sevilla

C:\fgrat\Projects\runmanual3 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

- (1) Period
- (2) Years
- (3) Conc. (ug/l)
- (4) Mass (g/ha)
- (5) Leachate (l/ha)

Bottom of Soil Core

1	7	0.2146E-05	0.1642E-05	0.7651E+06
2	8	0.3057E-04	0.7905E-04	0.2586E+07
3	9	0.2208E-03	0.5291E-03	0.2396E+07
4	10	0.5275E-03	0.5586E-03	0.1059E+07
5	11	0.1114E-02	0.3569E-02	0.3204E+07
6	12	0.1588E-02	0.4143E-03	0.2609E+06
7	13	0.1670E-02	0.7929E-03	0.4749E+06
8	14	0.1821E-02	0.1199E-02	0.6584E+06
9	15	0.2299E-02	0.6318E-02	0.2748E+07
10	16	0.2754E-02	0.3798E-02	0.1379E+07
11	17	0.3113E-02	0.5165E-02	0.1659E+07
12	18	0.3348E-02	0.1886E-02	0.5634E+06
13	19	0.3603E-02	0.7844E-02	0.2177E+07
14	20	0.000	0.000	0.000

15	21	0.3673E-02	0.1234E-01	0.3360E+07
16	22	0.3504E-02	0.3148E-02	0.8984E+06
17	23	0.000	0.000	0.000
18	24	0.000	0.000	0.000
19	25	0.000	0.000	0.000
20	26	0.000	0.000	0.000

At 1 Meter

1	7	0.000	-.1476E-02	0.7651E+06
2	8	0.000	-.2392E-03	0.2586E+07
3	9	0.4937E-02	0.1183E-01	0.2396E+07
4	10	0.3539E-02	0.3748E-02	0.1059E+07
5	11	0.1035E-01	0.3315E-01	0.3204E+07
6	12	0.000	-.6118E-03	0.2609E+06
7	13	0.000	-.8627E-03	0.4749E+06
8	14	0.000	-.4915E-03	0.6584E+06
9	15	0.000	-.4659E-03	0.2748E+07
10	16	0.000	-.1642E-03	0.1379E+07
11	17	0.1002E-03	0.1663E-03	0.1659E+07
12	18	0.1793E-04	0.1010E-04	0.5634E+06
13	19	0.000	-.3706E-04	0.2177E+07
14	20	0.000	0.000	0.000
15	21	0.6563E-02	0.2205E-01	0.3360E+07
16	22	0.7419E-02	0.6665E-02	0.8984E+06
17	23	0.000	0.000	0.000
18	24	0.000	0.000	0.000
19	25	0.000	0.000	0.000
20	26	0.000	0.000	0.000

Mass Balance Summary (g/ha)

- (1) Period
- (2) Years
- (3) Applied/Formed
- (4) Runoff
- (5) Volatilized
- (6) Decayed
- (7) Uptake
- (8) Leached
- (9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.3950	827.0	167.0	0.1640E-05	561.0
2	8	1000.	0.000	0.6490	870.0	156.0	0.7910E-04	532.0
3	9	1000.	0.000	0.1760	940.0	99.50	0.5290E-03	493.0
4	10	1000.	0.000	0.5130	901.0	123.0	0.5590E-03	466.0
5	11	1000.	0.000	1.470	702.0	65.50	0.3570E-02	700.0
6	12	1000.	0.000	2.280	728.0	160.0	0.4140E-03	811.0
7	13	1000.	0.000	3.650	1090.	176.0	0.7930E-03	538.0
8	14	1000.	0.000	0.7130	750.0	233.0	0.1200E-02	561.0
9	15	1000.	0.000	1.610	809.0	169.0	0.6320E-02	575.0
10	16	1000.	0.000	0.3370	847.0	196.0	0.3800E-02	535.0
11	17	1000.	0.000	0.7410	825.0	201.0	0.5170E-02	505.0
12	18	1000.	0.000	1.120	680.0	85.30	0.1890E-02	740.0
13	19	1000.	0.000	0.4230	1040.	207.0	0.7840E-02	494.0
14	20	1000.	0.000	1.050	692.0	156.0	0.000	644.0
15	21	1000.	0.000	0.3770	1010.	154.0	0.1230E-01	476.0
16	22	1000.	0.000	0.4330	846.0	104.0	0.3150E-02	526.0
17	23	1000.	0.000	0.2400	899.0	144.0	0.000	485.0
18	24	1000.	0.000	0.8450	771.0	148.0	0.000	567.0
19	25	1000.	0.000	0.8920	681.0	145.0	0.000	738.0
20	26	1000.	0.000	1.330	934.0	247.0	0.000	554.0

At 1 Meter

1	7	1000.	0.000	0.3950	827.0	167.0	-.1480E-02	561.0
2	8	1000.	0.000	0.6490	870.0	156.0	-.2390E-03	532.0
3	9	1000.	0.000	0.1760	940.0	99.50	0.1180E-01	493.0
4	10	1000.	0.000	0.5130	901.0	123.0	0.3750E-02	466.0
5	11	1000.	0.000	1.470	702.0	65.50	0.3310E-01	700.0
6	12	1000.	0.000	2.280	728.0	160.0	-.6120E-03	811.0
7	13	1000.	0.000	3.650	1090.	176.0	-.8630E-03	538.0
8	14	1000.	0.000	0.7130	750.0	233.0	-.4920E-03	561.0
9	15	1000.	0.000	1.610	809.0	169.0	-.4660E-03	575.0
10	16	1000.	0.000	0.3370	847.0	196.0	-.1640E-03	535.0
11	17	1000.	0.000	0.7410	825.0	201.0	0.1660E-03	505.0
12	18	1000.	0.000	1.120	680.0	85.30	0.1010E-04	740.0
13	19	1000.	0.000	0.4230	1040.	207.0	-.3710E-04	494.0
14	20	1000.	0.000	1.050	692.0	156.0	0.000	644.0
15	21	1000.	0.000	0.3770	1010.	154.0	0.2210E-01	476.0
16	22	1000.	0.000	0.4330	846.0	104.0	0.6660E-02	526.0
17	23	1000.	0.000	0.2400	899.0	144.0	0.000	485.0

18	24	1000.	0.000	0.8450	771.0	148.0	0.000	567.0
19	25	1000.	0.000	0.8920	681.0	145.0	0.000	738.0
20	26	1000.	0.000	1.330	934.0	247.0	0.000	554.0

Hydrology Summary (cm)

(1) Period

(2) Years

(3) Precipitation

(4) Runoff

(5) ET

(6) Leach - At 1 Meter

(7) Leach - Bottom of Soil Core

(8) Irrigation (cm)

1	7	47.23	0.000	36.51	7.651	7.651	0.000
2	8	84.89	0.000	57.18	25.86	25.86	0.000
3	9	59.45	0.000	35.80	23.96	23.96	0.000
4	10	57.28	0.000	46.38	10.59	10.59	0.000
5	11	68.07	0.000	39.05	32.04	32.04	0.000
6	12	37.87	0.000	36.06	2.609	2.609	0.000
7	13	34.89	0.000	26.33	4.749	4.749	0.000
8	14	38.69	0.000	34.42	6.584	6.584	0.000
9	15	57.80	0.000	29.98	27.48	27.48	0.000
10	16	58.96	0.000	45.99	13.79	13.79	0.000
11	17	58.31	0.000	39.13	16.59	16.59	0.000
12	18	29.55	0.000	32.91	5.634	5.634	0.000
13	19	67.53	0.000	38.48	21.77	21.77	0.000
14	20	26.70	0.000	34.11	0.000	0.000	0.000
15	21	80.84	0.000	37.92	33.60	33.60	0.000
16	22	43.43	0.000	35.57	8.984	8.984	0.000
17	23	36.99	0.000	39.12	0.000	0.000	0.000
18	24	37.78	0.000	39.78	0.000	0.000	0.000
19	25	31.63	0.000	32.92	0.000	0.000	0.000
20	26	27.72	0.000	26.10	0.000	0.000	0.000

8.3.11. PRZM T-CW-Z1.TAB File – Output for Thiva

C:\fgrat\Projects\runmanual3 of FOCUS PRZM Groundwater Tool v3.5.1 (Oct., 2008)

Concentration Summary

(1) Period

(2) Years

(3) Conc. (ug/l)

(4) Mass (g/ha)

(5) Leachate (l/ha)

Bottom of Soil Core

1	7	0.4661E-07	0.7351E-07	0.1577E+07
2	8	0.1555E-05	0.2795E-05	0.1798E+07
3	9	0.4726E-05	0.4176E-06	0.8836E+05
4	10	0.1480E-04	0.1998E-04	0.1350E+07
5	11	0.8652E-04	0.1598E-03	0.1847E+07
6	12	0.2316E-03	0.2703E-03	0.1167E+07
7	13	0.4414E-03	0.7125E-03	0.1614E+07
8	14	0.5996E-03	0.4233E-03	0.7060E+06
9	15	0.7182E-03	0.1659E-02	0.2310E+07
10	16	0.7327E-03	0.7452E-03	0.1017E+07
11	17	0.6966E-03	0.7482E-03	0.1074E+07
12	18	0.6465E-03	0.7448E-03	0.1152E+07
13	19	0.6188E-03	0.4126E-03	0.6668E+06
14	20	0.7161E-03	0.1609E-02	0.2247E+07
15	21	0.000	0.000	0.000
16	22	0.000	0.000	0.000
17	23	0.1028E-02	0.9044E-03	0.8801E+06
18	24	0.000	0.000	0.000
19	25	0.000	0.000	0.000
20	26	0.1141E-02	0.8931E-04	0.7827E+05

At 1 Meter

1	7	0.1117E-02	0.1761E-02	0.1577E+07
2	8	0.2539E-02	0.4565E-02	0.1798E+07
3	9	0.2338E-03	0.2066E-04	0.8836E+05
4	10	0.000	-.7329E-04	0.1350E+07
5	11	0.1220E-03	0.2253E-03	0.1847E+07
6	12	0.4479E-03	0.5227E-03	0.1167E+07
7	13	0.3083E-03	0.4976E-03	0.1614E+07
8	14	0.1107E-02	0.7816E-03	0.7060E+06
9	15	0.5935E-03	0.1371E-02	0.2310E+07
10	16	0.1068E-01	0.1086E-01	0.1017E+07
11	17	0.3320E-02	0.3566E-02	0.1074E+07

12	18	0.1182E-02	0.1362E-02	0.1152E+07
13	19	0.000	-.1423E-03	0.6668E+06
14	20	0.5065E-03	0.1138E-02	0.2247E+07
15	21	0.000	0.000	0.000
16	22	0.000	0.000	0.000
17	23	0.5713E-03	0.5028E-03	0.8801E+06
18	24	0.000	0.000	0.000
19	25	0.000	0.000	0.000
20	26	0.000	-.1956E-04	0.7827E+05

Mass Balance Summary (g/ha)

- (1) Period
- (2) Years
- (3) Applied/Formed
- (4) Runoff
- (5) Volatilized
- (6) Decayed
- (7) Uptake
- (8) Leached
- (9) Remaining

Bottom of Soil Core

1	7	1000.	0.000	0.3400	886.0	167.0	0.7350E-07	582.0
2	8	1000.	0.000	0.1210	876.0	147.0	0.2800E-05	556.0
3	9	1000.	0.000	0.2350	806.0	163.0	0.4180E-06	584.0
4	10	1000.	0.000	0.1190	887.0	143.0	0.2000E-04	556.0
5	11	1000.	0.000	0.4930	808.0	213.0	0.1600E-03	532.0
6	12	1000.	0.000	0.1650	820.0	161.0	0.2700E-03	553.0
7	13	1000.	0.000	0.1360	873.0	126.0	0.7130E-03	554.0
8	14	1000.	0.000	0.1860	855.0	158.0	0.4230E-03	541.0
9	15	1000.	0.000	0.1170	821.0	112.0	0.1660E-02	606.0
10	16	1000.	0.000	0.4900	829.0	165.0	0.7450E-03	613.0
11	17	1000.	0.000	0.6100	842.0	203.0	0.7480E-03	566.0
12	18	1000.	0.000	0.7270	750.0	139.0	0.7450E-03	678.0
13	19	1000.	0.000	0.2370	931.0	173.0	0.4130E-03	574.0
14	20	1000.	0.000	0.3400	825.0	168.0	0.1610E-02	581.0
15	21	1000.	0.000	0.2260	791.0	140.0	0.000	648.0
16	22	1000.	0.000	0.2530	912.0	134.0	0.000	602.0
17	23	1000.	0.000	0.1790	803.0	132.0	0.9040E-03	668.0
18	24	1000.	0.000	0.3360	836.0	140.0	0.000	687.0
19	25	1000.	0.000	0.6860	894.0	178.0	0.000	619.0
20	26	1000.	0.000	0.4150	817.0	167.0	0.8930E-04	633.0

At 1 Meter

1	7	1000.	0.000	0.3400	886.0	167.0	0.1760E-02	582.0
2	8	1000.	0.000	0.1210	876.0	147.0	0.4570E-02	556.0
3	9	1000.	0.000	0.2350	806.0	163.0	0.2070E-04	584.0
4	10	1000.	0.000	0.1190	887.0	143.0	-.7330E-04	556.0
5	11	1000.	0.000	0.4930	808.0	213.0	0.2250E-03	532.0
6	12	1000.	0.000	0.1650	820.0	161.0	0.5230E-03	553.0
7	13	1000.	0.000	0.1360	873.0	126.0	0.4980E-03	554.0
8	14	1000.	0.000	0.1860	855.0	158.0	0.7820E-03	541.0
9	15	1000.	0.000	0.1170	821.0	112.0	0.1370E-02	606.0
10	16	1000.	0.000	0.4900	829.0	165.0	0.1090E-01	613.0
11	17	1000.	0.000	0.6100	842.0	203.0	0.3570E-02	566.0
12	18	1000.	0.000	0.7270	750.0	139.0	0.1360E-02	678.0
13	19	1000.	0.000	0.2370	931.0	173.0	-.1420E-03	574.0
14	20	1000.	0.000	0.3400	825.0	168.0	0.1140E-02	581.0
15	21	1000.	0.000	0.2260	791.0	140.0	0.000	648.0
16	22	1000.	0.000	0.2530	912.0	134.0	0.000	602.0
17	23	1000.	0.000	0.1790	803.0	132.0	0.5030E-03	668.0
18	24	1000.	0.000	0.3360	836.0	140.0	0.000	687.0
19	25	1000.	0.000	0.6860	894.0	178.0	0.000	619.0
20	26	1000.	0.000	0.4150	817.0	167.0	-.1960E-04	633.0

Hydrology Summary (cm)

- (1) Period
- (2) Years
- (3) Precipitation
- (4) Runoff
- (5) ET
- (6) Leach - At 1 Meter
- (7) Leach - Bottom of Soil Core
- (8) Irrigation (cm)

1	7	65.71	0.000	43.10	15.77	15.77	0.000
2	8	65.05	0.000	46.57	17.98	17.98	0.000
3	9	32.13	0.000	36.20	0.8836	0.8836	0.000
4	10	65.05	0.000	46.60	13.50	13.50	0.000

5	11	69.68	0.000	50.58	18.47	18.47	0.000
6	12	60.14	0.000	51.37	11.67	11.67	0.000
7	13	62.25	0.000	43.56	16.14	16.14	0.000
8	14	55.60	0.000	48.48	7.060	7.060	0.000
9	15	64.73	0.000	42.18	23.10	23.10	0.000
10	16	44.90	0.000	41.09	10.17	10.17	0.000
11	17	56.67	0.000	41.89	10.74	10.74	0.000
12	18	57.10	0.000	42.91	11.52	11.52	0.000
13	19	52.38	0.000	46.50	6.668	6.668	0.000
14	20	65.91	0.000	43.28	22.47	22.47	0.000
15	21	22.81	0.000	31.72	0.000	0.000	0.000
16	22	32.18	0.000	23.02	0.000	0.000	0.000
17	23	54.21	0.000	46.61	8.801	8.801	0.000
18	24	17.88	0.000	27.84	0.000	0.000	0.000
19	25	24.21	0.000	16.57	0.000	0.000	0.000
20	26	31.47	0.000	34.25	0.7827	0.7827	0.000