

Addendum to SPIN Manual 1.1

SPIN 2.2 for use with FOCUS_SWASH 5.3

November 2014

1 Introduction

The manual for SPIN 1.1 is still fully compatible with the SPIN 2.2 software. Two relevant changes are described in this addendum:

- change in input on transformation soil-aerobic tab
- addition for export and import of metabolite schemes

Furthermore, in SPIN 2.2 minor changes and additions for greenhouse substances have been made. These changes are not described because they are minor or not relevant for use with SWASH.

2 Input on transformation soil-aerobic tab (Section 3.2.4)

On the 'transformation soil-aerobic' tab the user can enter two values for the exponent for the effect of liquid; added is 'calibrated'. In SPIN 1.1 only the 'Walker' value could be entered.

Aerobic transformations	
Half-life (d):	3
Measured at (°C):	20
Molar activation energy (kJ mol ⁻¹):	
Option moisture conditions (pF=2 or wetter):	<input type="checkbox"/>
Liquid content in incubation experiment (kg kg ⁻¹):	
Exponent for the effect of liquid	
Walker (-):	0.7
Calibrated value (-):	0.49
Option for biphasic transformation:	<input type="checkbox"/>
Moisture content (%) at which half-life is measured (%):	100
Option for moisture content in transformation study:	Relative to soil
Q10 Factor for effect of temperature on transformation:	2.2
pF at which half-life is measured (1,2) (log(cm)):	2
Effect of temperature (K ⁻¹):	0.079

Figure 1 The soil-aerobic tab.

3 Export and import of metabolite schemes (Chapter 5)

An option to export and import metabolite schemes has been added. See Figure 2.

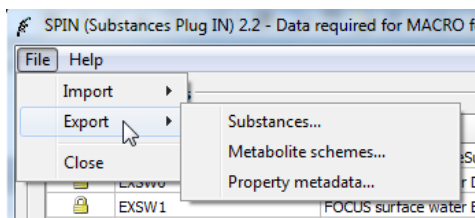


Figure 2 Export selection option to export substances, metabolite schemes and metadata.