

OVERSEER[®] Nutrient Budgets User Interface

Changes for Version 5.5



Introduction

- Changes will occur to the new OVERSEER[®] Nutrient Budgets interface to be released February due to:
 - Integration of fruit and arable/vegetable cropping models into pastoral model
 - Accommodating other model developments:
 - Differential blocks
 - Supplements removal (inc cut & carry and lucerne)
 - Implementation of monthly N model for pastoral blocks
- Changes serve as a template for the new architecture phase of OVERSEER[®] Nutrient Budgets development next year, where there will be formal stakeholder input into User Interface design

One model

No separation of
pastoral,
crop, fruit models

OVERSEER® 2010 5.5.0 beta

Software for nutrient budgeting and assisting in nutrient and environmental management

OVERSEER® Nutrient budgets	for pastoral and cropping (vegetable, arable and fruit) nutrient budgets
OVERSEER® Small block	suitable for small pastoral blocks and as an introduction to OVERSEER® Nutrient budgets




Press F1 for help **Exit**

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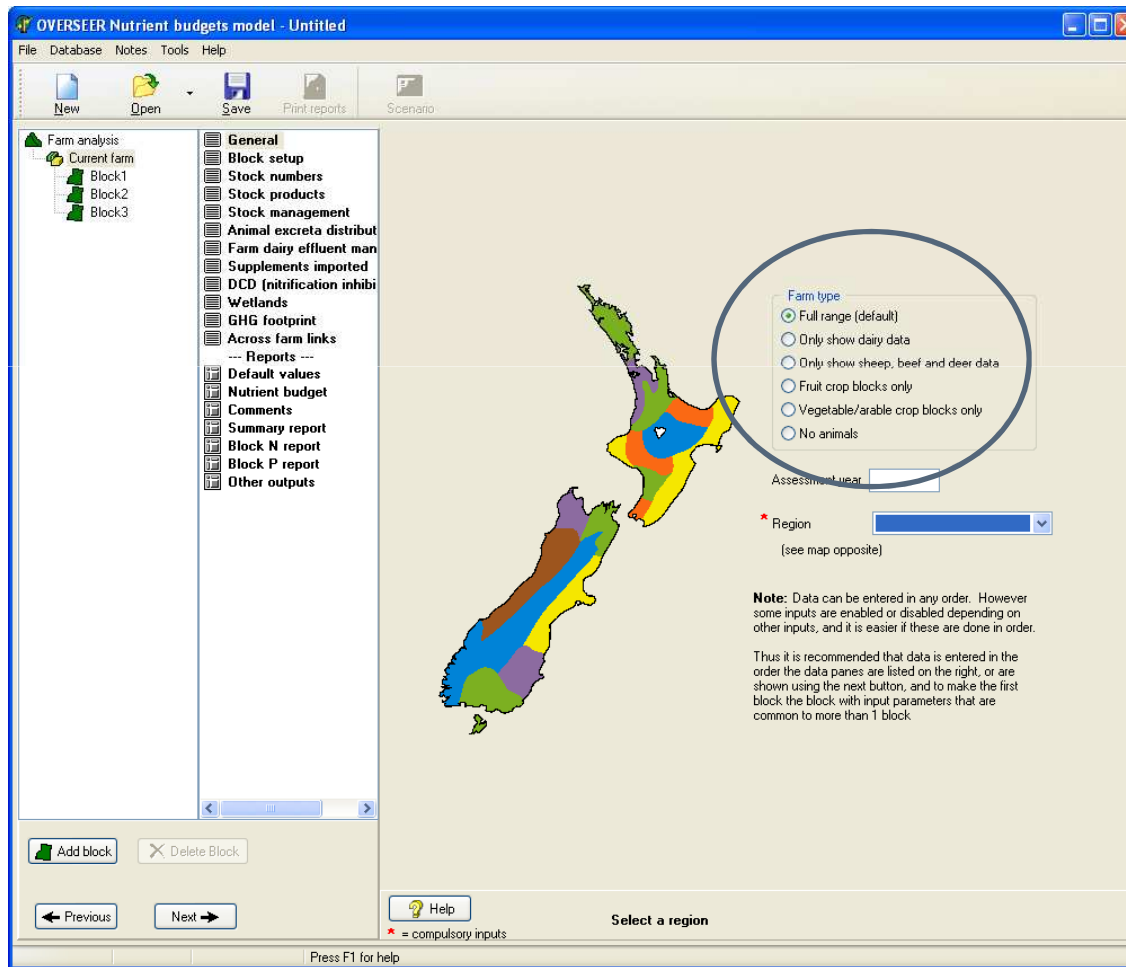
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Note: choice of farm type



Options now set at
Farm level

Note: choice of different types of blocks within a single farm

Farm blocks

A block is an area of land under common management practices. On this tab, add the blocks and enter the block name, select the block type and enter the effective area. This is the area excluding fenced off areas, and excludes raceways, etc.
On the block general page, there are options to copy block parameter inputs. It is easier to make the first block the block with input parameters that are common to more than 1 block.

* Block name	Block type	Effective block area (ha)
Block1	Pastoral	10
Block2	Fodder crop	
Block3	Cut and carry	10

- Pastoral
- Fodder crop
- Cut and carry
- Fruit crop
- Crop (arable or vegetable)
- Trees and scrub
- Riparian
- Wetlands
- House

Total area declared as blocks: 20 ha

Total farm area: ha

Non-productive area: n/a

9 separate block options now available

General approach to the User Interface for v 5.5

- No fundamental changes to the look and feel,
but
 - Rearranged input screens
 - We have clustered information to common input themes (less information per screen)
 - Where complex information is required, this allows more explanation to be presented

More input screens per block

OVERSEER Nutrient budgets model - Untitled

File Database Notes Tools Help

New Open Save Print reports Scenario

Farm analysis
Current farm
Block1

- General
- Climate
- Soil description
- Soil tests
- Soil settings
- Pasture
- Supplement removal
- Fertiliser, lime & others
- Irrigation
- Animals on block
- Effluent applications
- Reports
- Default values
- Nutrient budget
- Comments
- Maint. nutrient
- Block N report
- Block P report
- Other outputs

Block Name: Block1
Block type: Pastoral
Block area:

More input screens to make data entry
More straightforward

Copy site, climate and soil data from first block.

Copy all data from another block (must be the same block type)

Pastoral block

A pastoral block is a block in pasture with animals grazing. There are 2 types of - permanent pasture blocks, - pasture blocks through which a fodder crop block rotates through. The area that is fodder cropped.

It is recommended that the help system (press F1) is consulted to ensure that the

Pasture block type
 Permanent pasture
 Fodder crop rotates through this block

Site description
* Topography
Distance from coast (In direction of prevailing wind)
Cultivated in the last

Profile drainage class prior to drainage (if known) Moderately well

Current status
Footy drained (unchecked = well drained)
Mole/tile drained

Click to link mole/tile drain outlet to an artificial wetland

Click for advanced grass filter strip

Add block Delete Block

Previous Next

Help Print parameters

* = compulsory inputs

Press F1 for help

More reports also produced

OVERSEER nutrient budgets-2009 - Proposed Tokanui Dairy Platform - 2009-10 (Future Plan)

File Database Notes Help

New Open Print reports Scenario

Farm
Current farm
Main Block (Dorohanga)
Main Block (Pouhau)
Main Block (Dorohanga)
Main Block (Korokoro)
Retired

- General
- Climate
- Animals & pasture
- Soil
- Fertiliser & lime
- Supplements removal
- Reports
- Nutrient budget
- Maint. nutrient
- Block N report
- Block P report

Block Name: Main Block (Dorohanga) Flat 79 ha

Site description
Topography Flat
Distance from coast 35 km
(Direction of prevailing wind)

Drainage descriptions
Profile drainage class prior to drainage (if known) Moderately well

Current status
Footy drained (unchecked = well drained)
Mole/tile drained

Click to link mole/tile drain outlet to an artificial wetland

Click for advanced grass filter strip

Effluent applications
Spray effluent applied Defatration
Effluent application depth (mm/day)

* Click to set blocks effluent (liquid or solid) from farm dairy or feed pads is applied on

Irrigation
Rate 0 mm/yr
Start date / / day/month
Finish date / / day/month
Border dyke
Water source is borderdyke outwash

Click to set block irrigation water nutrient concentrations

Previous Next

Help Print parameters

Data differences Press F1 for help

Compare with current version

More explanation of complex issues

The screenshot shows the 'OVERSEER Nutrient budgets model - Untitled' application window. The interface includes a menu bar (File, Database, Notes, Tools, Help) and a toolbar with icons for New, Open, Save, Print-reports, and Scenario. A left-hand navigation pane lists various settings categories such as Farm analysis, Current farm, Block1, General, Climate, Soil description, Soil tests, Soil settings, Pasture, Supplement removal, Fertiliser, lime & others, Irrigation, Animals on block, Effluent applications, Reports, Default values, Nutrient budget, Comments, Maint. nutrient, Relative yield, Block N report, Block P report, and Other outputs. The main workspace displays the 'K leaching potential (optional)' section, which contains explanatory text about K accumulation and leaching, a slider control for 'K leaching potential' (currently showing '(Not enough data to set default value)'), and a 'Reset to default' button. Below this is the 'N immobilisation potential (optional)' section, featuring a dropdown menu with options 'Standard', 'Higher', and 'None', and a help icon. The bottom of the window contains navigation buttons for 'Add block', 'Delete Block', 'Previous', and 'Next', along with 'Help' and 'Print parameters' buttons. A status bar at the very bottom indicates 'Press F1 for help'.

Next steps

- The new version of OVERSEER[®] Nutrient Budgets is currently undergoing testing
- Release (subject to successful testing) is planned for February 2010
- User manual and quick start guide are being updated to reflect changes
- Release notes will give more information about the new version

