

## CREATING A FARM

### CLOUD WINDOW

FARMAX Cloud is the first screen which opens when starting FARMAX. This is where you will create farms and new files.

#### TO CREATE A FARM

1. Select 'New Farm'
  - Name your farm Otorohanga (your initials)
  - Region: Waikato
  - District: Otorohanga
  - Effective Area: 123ha
2. Select 'Create Farm'
3. Select 'Yes'

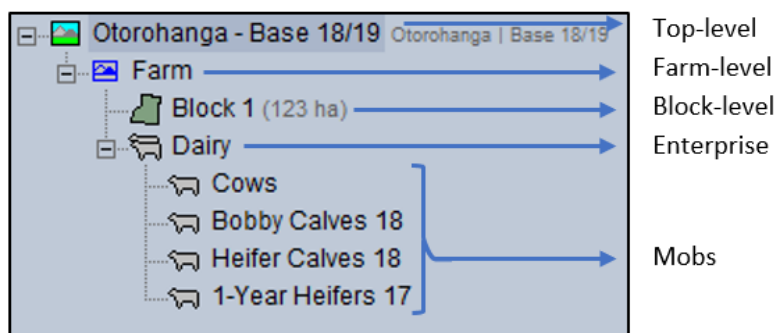
#### TO CREATE A FILE

1. Select 'Scenarios' in the second panel.
2. Select 'File' in the third panel.
3. Select 'New File'
  - a. Name the file 'Base X/X' (current season)
  - b. Select OK.

You have now created a farm and a file, select 'Open'.

## TREE-VIEW

The tree view is the first panel you see when in the Farmax application.



## LAND

### PROPERTIES

The Properties screen at the top level of the tree view (first panel) is where you can adjust some features of the farm. The information in yellow will have to be changed by contacting the HelpDesk.

1. Adjust the 'Terrain' to 'Flat-Rolling' in the drop-down menu in the third panel

### FARM LEVEL

This is where you can view farm properties, pasture covers and supplements. You can also assign schedules and expenses.

1. Click on 'Farm' in the tree view
2. Select 'Properties' in the second panel
3. Adjust the 'Cover' to 1900 in the third panel

### BLOCK LEVEL

At block level we can adjust growth rates and enter crops and nitrogen applications.

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#### APPLYING GROWTH RATES

1. Click the plus icon next to 'Farm' in the tree view
2. Select 'Block'
3. Select 'Growth Rate' in the second panel
4. Select 'Library' in the third panel
5. In the pop-out, select 'Waikato' -> 'Otorohanga'
6. Select 'Apply'

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#### ADDING A CROPPING EVENT

1. Select 'Crops' in the second panel
2. Select 'New Crop' in the third panel
3. Select 'Pasture Silage'
  - a. As you can see, FARMAX has created a pasture silage event. The plot gives a visual representation of the area of the crop which can be clicked and dragged to adjust the dates and area. These can also be adjusted in the table below.
4. In the table adjust:
  - a. 'Area' to 30ha.
  - b. 'Date In' to 17 September
  - c. 'Date Out' to 5 December

## ADDING A NITROGEN EVENT

1. Select 'Nitrogen' -> 'New Nitrogen'
2. In the table adjust"
  - a. 'Area' to 123ha
  - b. 'Date' to 2<sup>nd</sup> July

When looking at the 'Pasture Growth' report at the top level of the tree view you can see the impact of the Nitrogen applications. Selecting the 'table' view gives you exact values of the nitrogen boost.

## ANIMALS

### ADDING STOCK

1. Right click on 'Dairy' in the tree view
2. Select 'New Mob' -> 'Cows'
3. Repeat this step and add a '1-Year Heifers' mob

### RENAMING MOBS

1. Right click on the '1-Year Heifers' mob -> 'Rename'
2. In the 'Name' click on the cell which says '1-Year Heifers' and add the birth year to the end, in this case the new name will be '1-Year Heifers 17'

### NUMBERS

1. Select the 'Cows' mob in the tree view
2. Select 'Properties' in the second panel
  - a. Here we can change different aspects of the mob such as breed and ownership.
3. Change the number of cows to 350
4. Repeat the above steps for the '1-Year Heifers' mob, changing the 'Number' to 75

### MATING

1. Select 'Cows' in the tree view
2. Select 'Mating & Calving' in the second panel
  - a. We now see the mating screen for Calving 2018. Tick the 'Mated' box.
3. The farm keeps 75 heifer replacements. In the current years 'Calving Destinations' screen, type 75 next to 'First ... into Heifer Calves'
  - a. You will see 'Bobby Calves' and 'Heifer Calves' mobs have been created in the tree view. Click on the 'Heifer Calves' mob and you will see the first 75 calves have been put in to this mob, the rest have been put into the 'Bobby Calves' mob.
  - b. Change the names of the mob so the birth year is included by right clicking on the mob in tree view.
4. Repeat the above steps for the '1-Year Heifer' mob, however select 'Calving' for the next season.
  - a. 'Calving Destinations' wont display as the calving occurs in the next season.

## LOCATION

### SEND OFF

1. Select 'Location' in the second panel of the '1-Year Heifers' mob
2. Select 'New' -> 'Send Off' in the third panel
3. In the event table, select 'All' in the 'Send Off' drop-down
4. Adjust the date to 1<sup>st</sup> of June

### BRING BACK

1. Select 'New' -> 'Bring Back'
2. Select 'All' from the 'Bring Back' drop-down
3. Change the date to the 15<sup>th</sup> of May

## TRANSFERING STOCK

1. Select 'Numbers' for the '1-Year Heifer' mob
2. In the 'Transfer Out' column select the call aligning with May
3. Select 'New Tr.Out'
4. In the 'Move' drop-down select 'All'
5. In the 'Transfer to' drop-down select 'cows'
6. The date is automatically set for the day after the cows come back on farm.
7. Select 'Cows' -> 'Numbers'
  - a. You can see in May in the 'Transfer In' column the 75 R1 heifers coming in

## DRYING OFF

1. Select May in the 'Dry Off' column of the numbers screen
2. Select 'New' -> 'Drying Off'
3. You will see '350' in May

## PRODUCTION

1. Select the 'Cows' mob 'Performance' screen
  - a. You will see here 'Feed Offered', 'Production' and 'Pasture Cover'. This is where we feed our cows and monitor their milk production, body condition score and liveweight in the 'Production' graph and see the pasture demand in the 'Pasture Cover' graph. These are both driven by 'Feed Offered'.

## FEEDING

1. Click on the 'Select a Feed' drop-down -> 'Pasture Silage'
  - a. Pasture silage has been added below 'Pasture'.
  - b. Repeat and add Palm Kernel
2. Select the 'Milkers' tab and click on the row correlating to 'Pasture Silage'
  - a. You will see in the bottom row in December the pasture silage crop we entered at the beginning of the farm set up is shown as 60tonnes produced.
  - b. The cows are fed 2.5kg/head of silage in April and May and then some silage from last season is fed in July and April at 4kg/head. To update this so feed is available in July select 'Farm' in the tree view then 'Supplements'
  - c. The screen is showing us the inventory for the pasture silage. In the 'Open' column, enter '30' in the cell for June. Now select 'Cows' -> 'performance'
3. Click on a 'Pasture Silage' cell in the row and you will see the season now starts with 30tonnes DM.
  - a. Select the July cell in the pasture silage row and enter '4'. Hold the control key on your keyboard and use the right arrow to duplicate the event for August.
  - b. Select the April cell and enter '2.5'. Duplicate the event for May.
  - c. We now have 20tonne remaining to start the next season.
4. Cows are fed 3kg/head of Palm Kernel October through to January.

## PASTURE COVERS

Now we have adjusted our stock numbers, milk production, supplementary feeding and pasture growth rates, we can calibrate our pasture cover.

1. Click on the top level in the tree view
2. Select 'Pasture Covers'
3. Select 'Calibrate Pasture'
4. Tick each of the boxes, then enter the pasture covers below in the 'Pasture Cover' row below the graph

Jul	August	Sep	Oct	Nov	Dec	Jan	Feb	Mar	April	May	Jun
2049	2000	2150	2250	2150	2000	1900	1850	1900	2000	2050	2130

When updating the pasture growth levels in the 'Calibrate pasture' pop-out, the 'Pasture Growth' updates in the 'Potential Pasture Growth for Waipa' graph below. This is because the growth rate changes with demand and cover levels.