

# Farmax Monitoring User Notes

*For Farmax Performance Monitoring, Farmax Professional and Farmax Advantage users*

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## Navigation Changes

### Cloud Window

We have made some changes to the welcome cloud window, adding some new buttons on the toolbar for quicker navigation;

- You can choose to 'show' or 'hide' inactive farms.
- The 'New File' button lets you create a file for any farm and for any folder in that farm without having to select the farm and folder first.
- You can now see at a glance how many files are in each folder, even when the folder is closed.

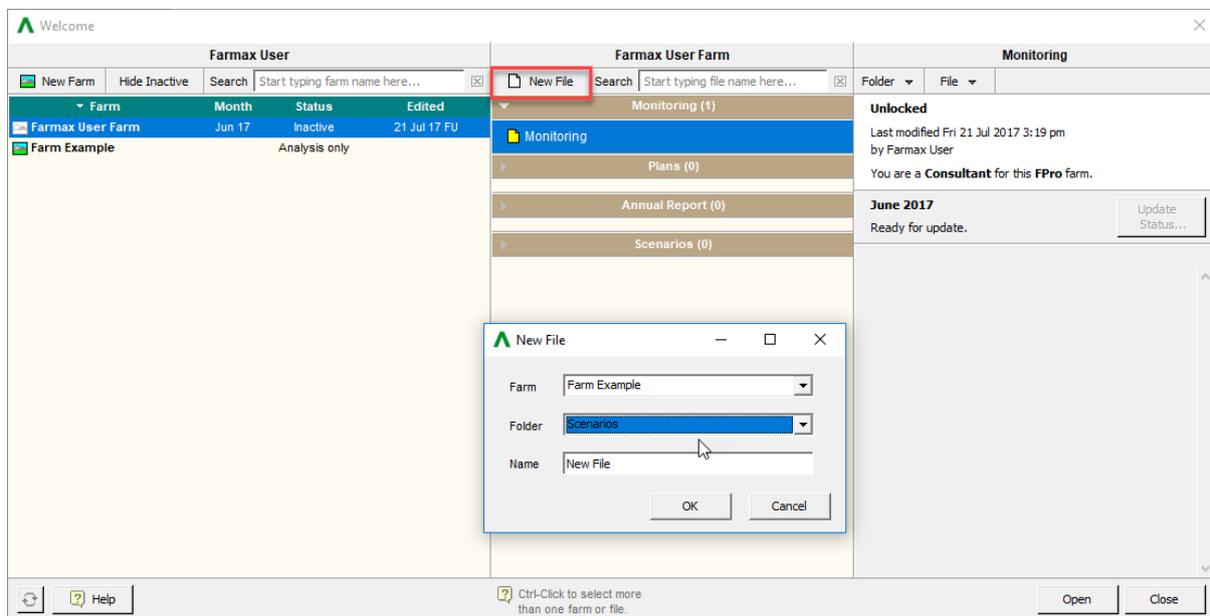


Figure 1: Farmax Cloud Window- Create New File

## Tree View

The modified tree layout now has the two top-level farm objects combined into one. The combined farm object has a longer list of screens and reports, so there will usually be a scroll bar.

You will notice the Data Input and Reports sections can be collapsed (like folders of the cloud window) to make it more manageable.

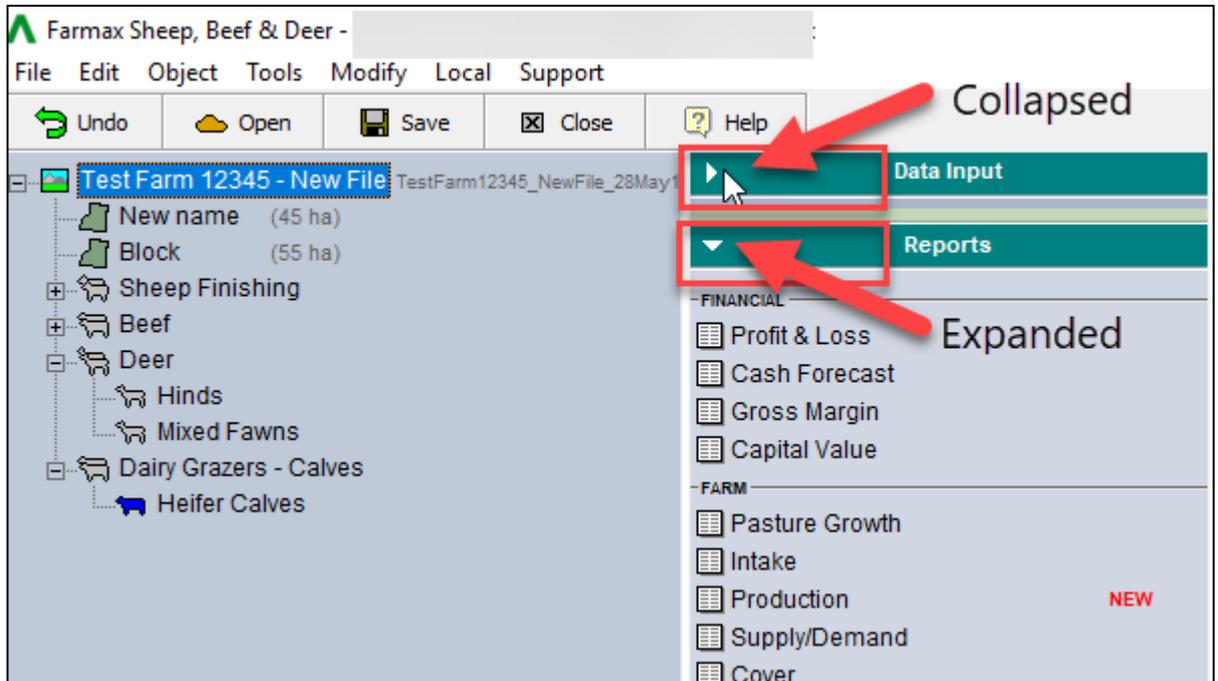


Figure 2: Tree View Collapse and Open sections

## New Reports

All new reports have a **NEW** label next to their name in the reports list.

Quality	
<b>STOCK</b>	
Mobs/Farmlets	<b>NEW</b>
Stock Rec.	
Sales	
Transactions	<b>NEW</b>
Allocation	

Figure 3: Example of New Report tag

## RMPP KPIs Report (Red Meat Profit Partnership KPIs Report)

Available at Farm Level

This new dashboard report displays a core set of Key Performance Indicators. This set of KPIs has been identified by the Red Meat Profit Partnership as a starting point for understanding farm business performance. They are designed for comparing your farm's performance against others.

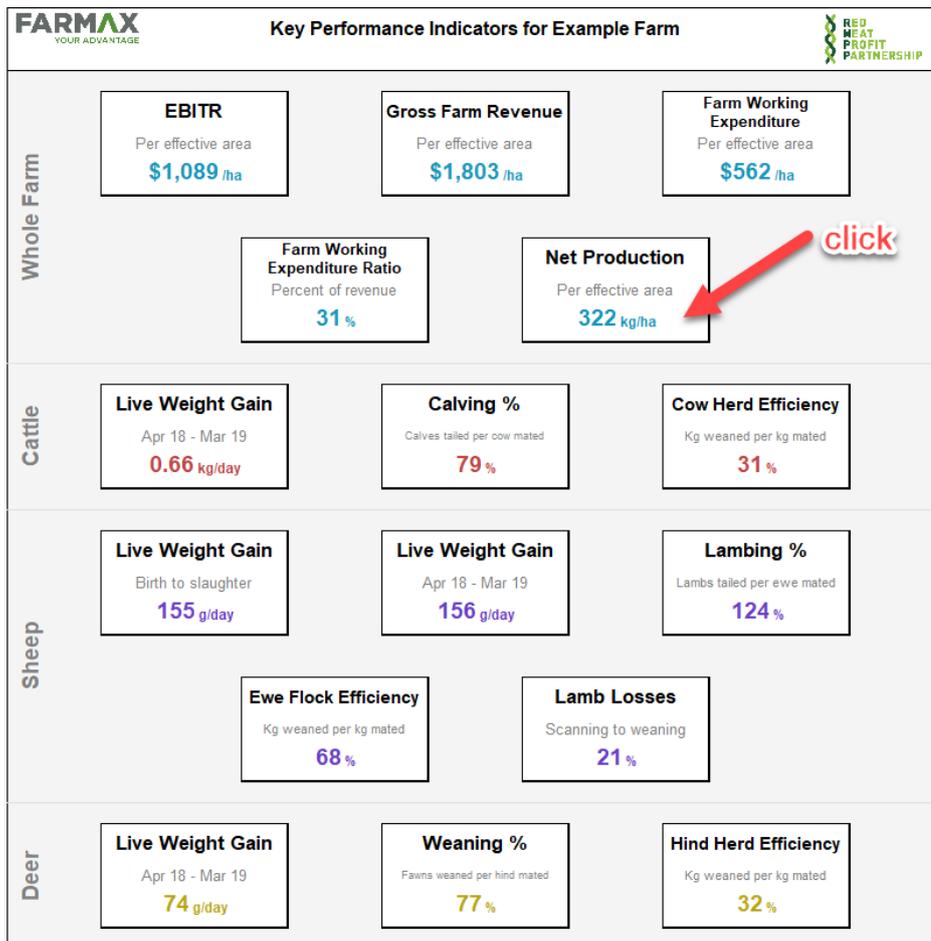


Figure 4: RMPP KPIs report

You can click on any KPI to see a breakdown of how the KPI has been calculated, as well as links to relevant FARMAX reports and other resources such as the Beef + Lamb NZ Knowledge Hub.

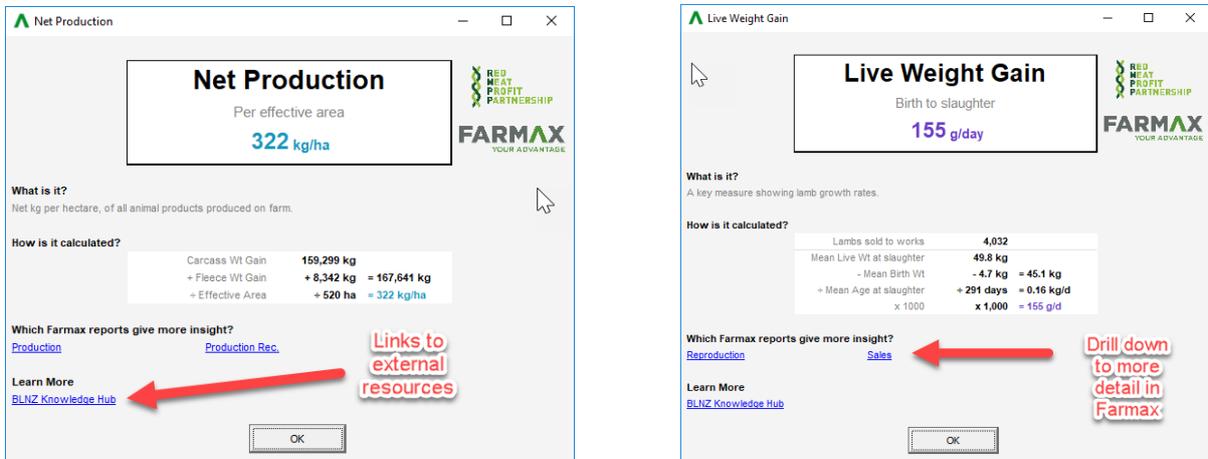


Figure 5 Net Production and Live Weight Gain tiles

## Production Report

Available at Farm level, Enterprise Level and Mob Level

The Production report shows weight gain and loss over time for the selected production type:

Live Weight, Carcass weight, Fleece Weight, Velvet Weight or Product Weight (Carcass + Fleece + Velvet)

You can view this information for the selected production type on either a **Total, Per Head, Per Ha** or **Per Grazing Ha** basis.

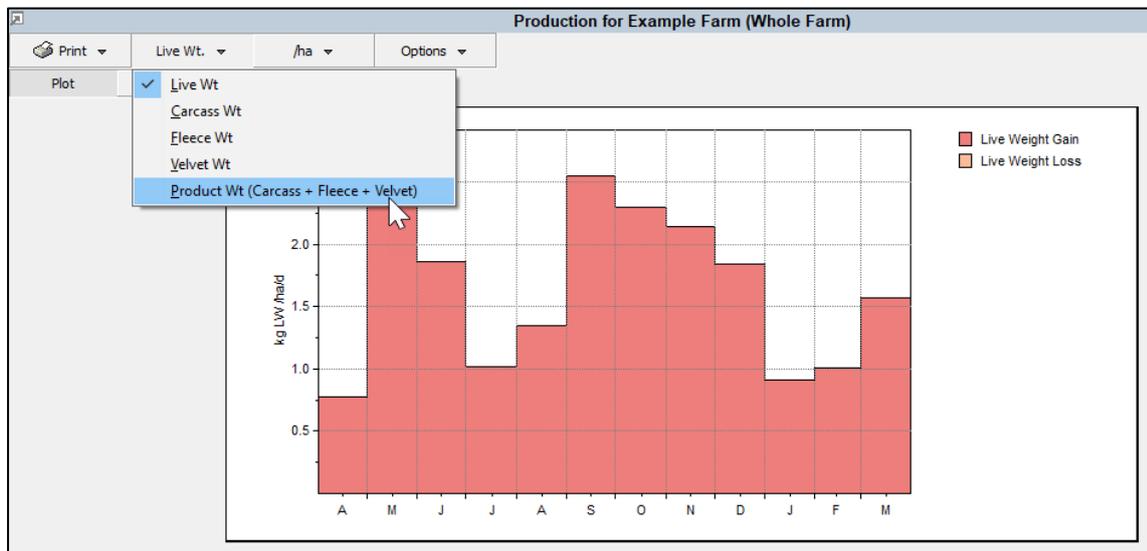


Figure 6: Production Report Plot displaying Product Wt. gain per hectare per day monthly.

Production for Example Farm (Whole Farm)

Print Live Wt. /ha Options

Plot Table

Month	Open kg/ha	In kg/ha/d	Out kg/ha/d	Close kg/ha	Gain kg/ha	Gain kg/ha/d
Apr 18	808.4	72.4	56.0	847.9	23.1	0.77
May 18	847.9	127.2	213.9	843.4	82.2	2.65
Jun 18	843.4	127.1	169.7	856.8	55.9	1.86
Jul 18	856.8	66.5		954.8	31.5	1.02
Aug 18	954.8		97.8	898.9	41.9	1.35
Sep 18	898.9		262.0	713.5	76.5	2.55
Oct 18	713.5	129.2	87.5	826.2	71.1	2.29
Nov 18	826.2	6.6	224.2	672.9	64.2	2.14
Dec 18	672.9	97.2	222.9	604.0	56.9	1.84
Jan 19	604.0	115.7		747.9	28.1	0.91
Feb 19	747.9	110.3	109.0	777.4	28.2	1.01
Mar 19	777.4	97.4	6.2	917.0	48.5	1.56
<b>Total</b>	<b>808.4</b>	<b>949.7</b>	<b>1,449.3</b>	<b>917.0</b>	<b>608.2</b>	<b>1.67</b>

Click Here

Figure 7: Production Report Table

The 'In' and 'Out' column headers can be expanded to see how weight moves in or out of the farm/enterprise/mob. E.g. purchases, sales, transfers, weaning etc.

### Mob Linkages Report

Available in Long Term Mode at Farm Level and Enterprise Level.

The Mob Linkages report is available in Long Term mode and is designed to show the flow of stock between mobs for the selected species through Ageing, Transfers, & Weaning.

This report can also be used to diagnose feedback loops which may be responsible for Unstable Mobs.

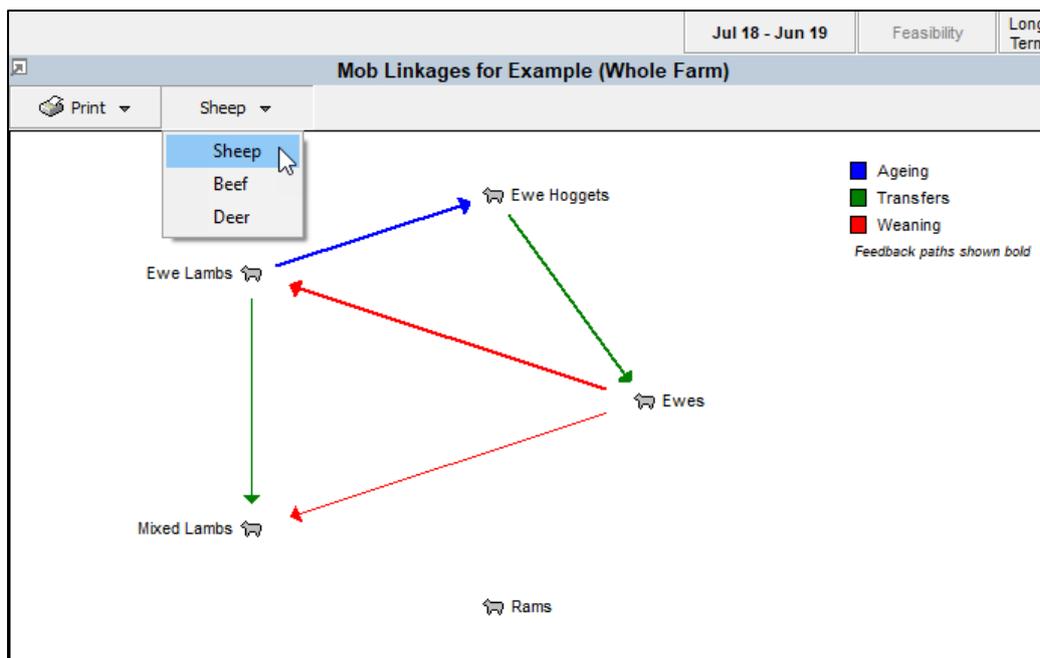


Figure 8: Mob Linkages Report displaying the linkages between sheep mobs

## Transactions Report

Available at Farm level

With the Transactions report, you can view a detailed list of all sales and purchases for the Farm. You can filter this report to show sales, purchases (including internal transactions) or deaths. This Farm level transactions report is in the same format as the Mob level Sales and Purchases report. It is useful for seeing all sales or purchases for a species in one place. It's also useful for identifying transactions that have incorrect overrides. Eg. Lamb price entered as \$110/kg rather than \$110/head.

Sales for Example (Whole Farm)								
Date	Enterprise	Mob	Destination	Number	Weight kg	\$ per kg	\$ per hd	\$ Total
16 Nov 17	Stud	Ram Hoggets	Store	482	74.0 lw	10.80	800.00	385,600
28 Feb 18	Beef	Heifer Calves	Store	20	347.5 lw	3.08	1,069.49	21,390
31 Mar 18	Beef	Heifer Calves	Store	20	320 lw	3.21	1,029.37	20,587
31 Mar 18	Beef	Steer Calves	Store	20	350 lw	3.01	1,055.09	21,102
30 Apr 18	Beef	Heifer Calves	Store	20	302 lw	3.11	937.51	18,750
30 Apr 18	Beef	Steer Calves	Store	20	321 lw	2.88	925.20	18,504
31 May 18	Beef	Steer Calves	Store	20	302 lw	2.82	849.52	16,990
01 Jul 17	Sheep	Ewes	Works	145	25 cw	4.00	99.26	14,392
31 Jul 17	Sheep	Ewe Hoggets 16	Works	235	20.6 cw	6.56	135.06	31,740
31 Jul 17	Stud	Ram Hoggets	Works	85	30.5 cw	5.33	162.37	13,801
31 Aug 17	Stud	Ram Hoggets	Works	81	30.6 cw	5.50	168.56	13,654
30 Sep 17	Stud	Ram Hoggets	Works	85	31.1 cw	5.70	177.53	15,090
31 Oct 17	Stud	Ram Hoggets	Works	80	32.7 cw	5.84	191.02	15,282
16 Nov 17	Stud	Ram Hoggets	Works	200	27.5 cw	7.28	200.00	40,000
30 Nov 17	Sheep	Ewes	Works	200	24.0 cw	4.77	114.43	22,885
30 Nov 17	Sheep	Mixed Lambs 17	Works	237	18.0 cw	7.15	128.63	30,485
31 Dec 17	Sheep	Ewes	Works	400	23.3 cw	4.54	105.79	42,316
31 Dec 17	Sheep	Mixed Lambs 17	Works	1135	16.0 cw	6.90	110.40	125,306
31 Jan 18	Sheep	Ewes	Works	200	23.3 cw	4.40	102.56	20,512
31 Jan 18	Sheep	Mixed Lambs 17	Works	320	16.5 cw	6.68	110.29	35,294
28 Feb 18	Sheep	Ewes	Works	167	23.7 cw	4.55	108.04	18,042
28 Feb 18	Sheep	Mixed Lambs 17	Works	1284	18.0 cw	6.81	122.52	157,316
16 Mar 18	Stud	Ram Hoggets	Works	100	28.5 cw	2.81	80.00	8,000
16 Mar 18	Stud	Ram Lambs	Works	40	23.9 cw	20.92	500.00	20,000
31 Mar 18	Sheep	Mixed Lambs 17	Works	900	18.0 cw	6.94	124.86	112,374
30 Apr 18	Sheep	Mixed Lambs 17	Works	500	18.0 cw	7.07	127.20	63,600
31 May 18	Sheep	Mixed Lambs 17	Works	542	18.0 cw	7.26	130.75	70,864
16 Jun 18	Sheep	Ewes	Works	145	24.5 cw	4.79	117.51	17,038
16 Nov 17	Stud	Ram Hoggets	Sheep: Rams	14	66.6 lw	5.31	353.70	4,952
25 Nov 17	Sheep	Mixed Lambs 17	Stud: Ram Lambs	1180	31.5 lw	3.26	102.71	121,193
[15 Dec 17]	Total Store			602	123.8 lw	6.75	835.42	502,924
[02 Feb 18]	Total Works			7081	19.8 cw	6.34	125.40	887,992
[24 Nov 17]	Total Internal			1194	31.9 lw	3.31	105.65	126,145
[21 Jan 18]	Total All Sales			8877			170.90	1,517,061

(lw = Live Weight; cw = Carcass Weight)

Figure 9: Farm Level Transactions report

## Systems Report

Available at Farm Level

Systems is a new feature of the Farm Level Gross Margin report. It allows users to link one or more mobs for gross margin reporting purposes. E.g. View a combined gross margin report for all lamb mobs. You can also include an area for a defined system for per ha gross margin figure.

To create a system, select the 'System' drop down from the Gross Margin report toolbar and select 'Edit Systems' On this page you can name your system e.g. '17 Born Lambs' and add each mob, by first selecting the enterprise it belongs to. You can specify an area to include per ha reporting or leave this blank.

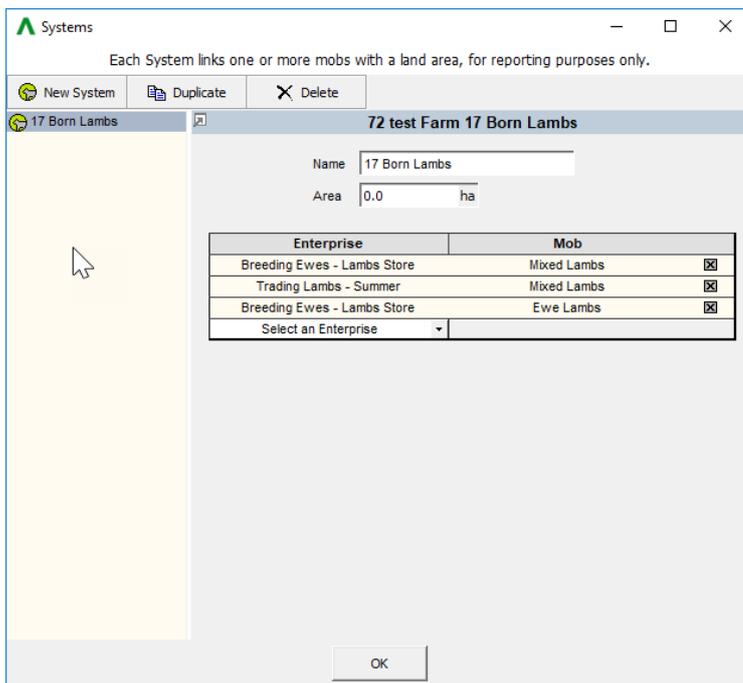


Figure 10: Systems Report, defining '17 born lambs' system.

The Gross Margin report will now report your selected system.

			\$/ha	\$ Total	c/kg DM
Revenue	Sheep	Sales - Purchases		80,767	
		Internal Sales - Purchases		-32,328	
		Wool		7,685	
		Capital Value Change		32,700	
		<b>Total Sheep</b>		<b>88,203</b>	<b>36.2</b>
	<b>Total Revenue</b>		<b>88,203</b>	<b>36.2</b>	
Expenses	Stock Costs	Animal Health		1,419	
		Shearing		7,131	
		<b>Total Stock Costs</b>		<b>8,549</b>	
		Interest on Capital (livestock & feed)		3,360	
		<b>Total Variable Expenses</b>		<b>11,909</b>	<b>4.9</b>
<b>Gross Margin</b>				<b>76,294</b>	<b>31.3</b>

Figure 11: Systems Report- displaying Gross Margin for the '17 Born Lambs' system

Systems will be remembered in the file and previously created systems can be edited by selecting 'edit systems' from the drop down on the toolbar.

## Mob Sizes Report

Available at the Farm Level

The Mob Sizes Report gives you a visual representation of the number of animals in a mob throughout the season, relative to the peak number. The mobs are grouped by Enterprise. You can click on any mob to display the mob's numbers screen. Off farm mobs will be shaded.

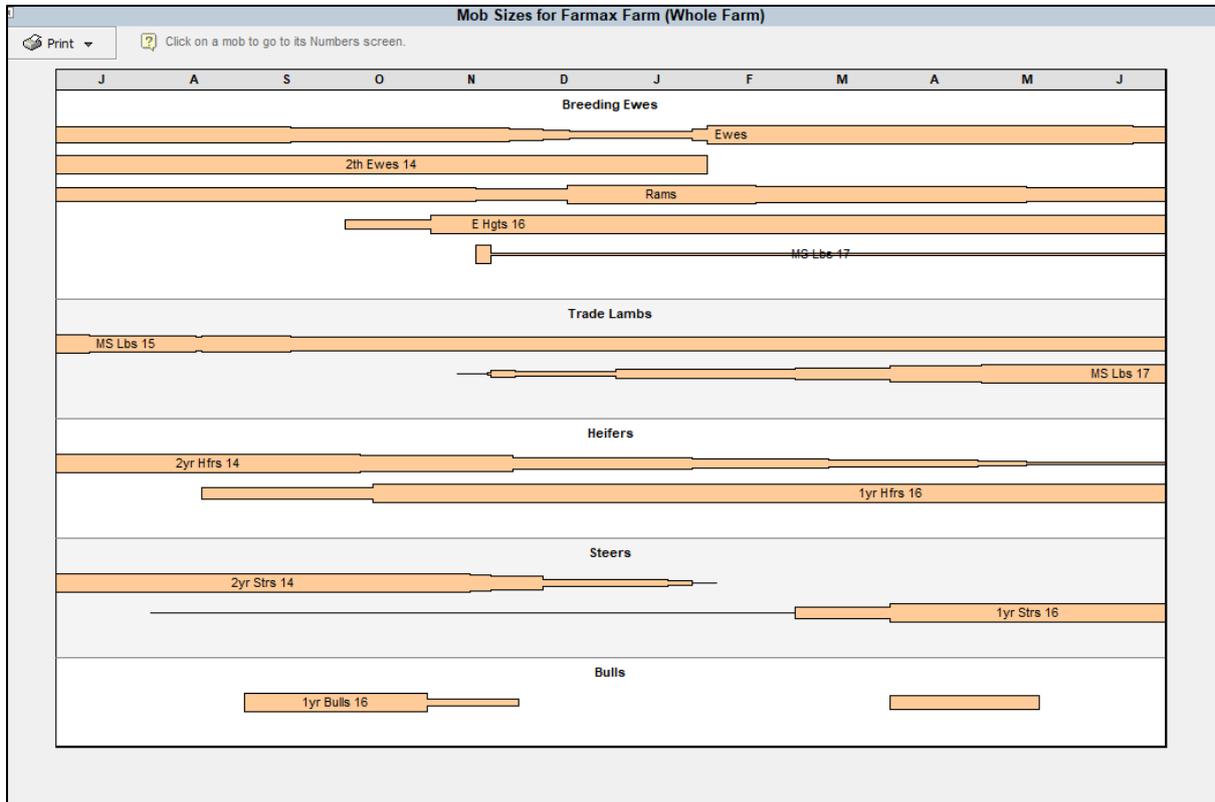


Figure 12: Mob Sizes Report

## New Features

### Live Weight Profile Auto Calibration

Calibrating mob live weight and weight gain per day is an important input for achieving an accurate forecast.

You can now calibrate a mob's live weight profile to an actual weigh event automatically.

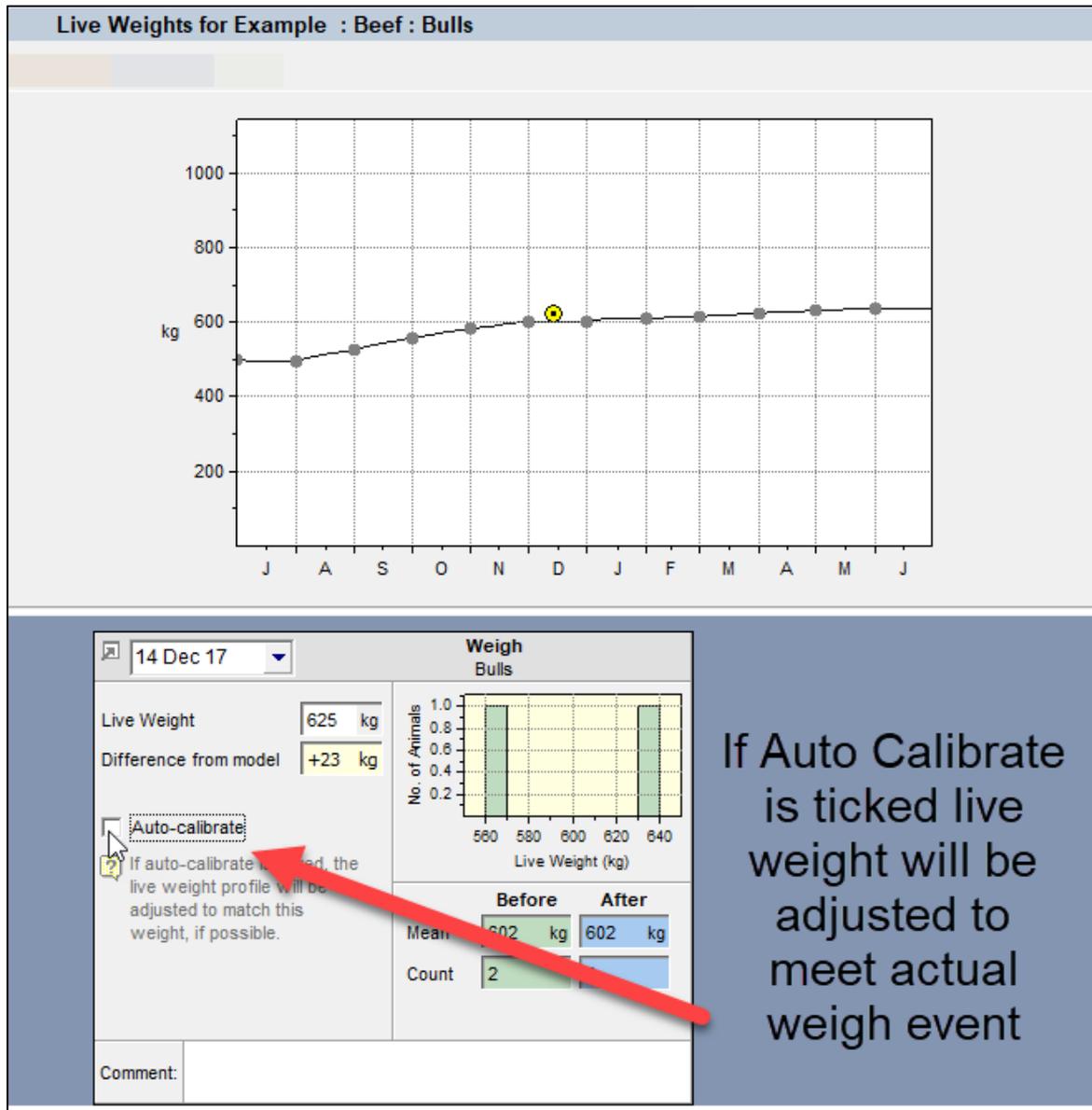


Figure 13: Live Weight auto-calibrate function

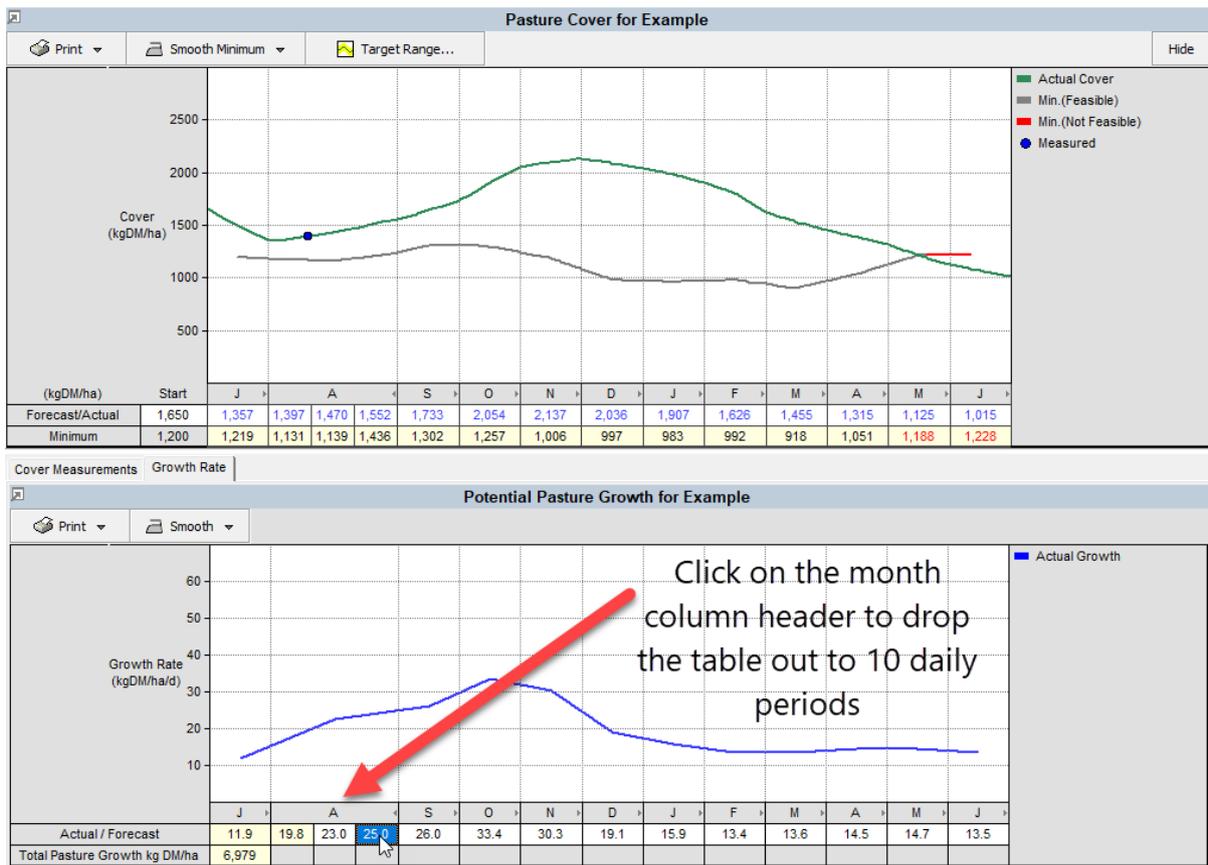
When you tick auto calibrate for a weigh event, the live weight curve including daily intake and gain will be adjusted to meet the target weight. If the weight measurement is higher than what FARMAX deems possible with the mob's intake limitations, the weight profile will be capped at the upper limit and may not reach the actual measurement.

Note: You should only use auto calibrate with weigh events that represent an average weight for the whole mob.

## Forecast Pasture Growth Rates

You can enter your potential Pasture Growth Rate for an individual block in the blocks Growth Rate screen, or at the whole Farm level, In the Growth Rate tab of the Pasture Covers screen.

When you enter an actual pasture cover, the growth rate is then modified and locked, to accommodate the new cover. Previously when you entered a cover, the growth rate for the whole month was locked. Now, growth rate is locked only for the 10-day period in which a cover measurement is entered. So, if a cover is entered for the 9<sup>th</sup> of the month, the forecasted growth rates for the 10<sup>th</sup> – 20<sup>th</sup> and 20<sup>th</sup> – end of month can still be modified. This will allow for more accurate feed supply forecasting.



## Other Improvements

### Block Area Interface

You can now update the area of all blocks within a file in one place. The new Edit Block Area interface will display when you; add a new block, scale a block or when you edit the area of an existing block in the block's properties screen. You will be required to confirm the area of all blocks.

Remember; the total area of the Farm is defined when creating the subscription. If you need the total area updated, contact the Farmmax helpdesk.

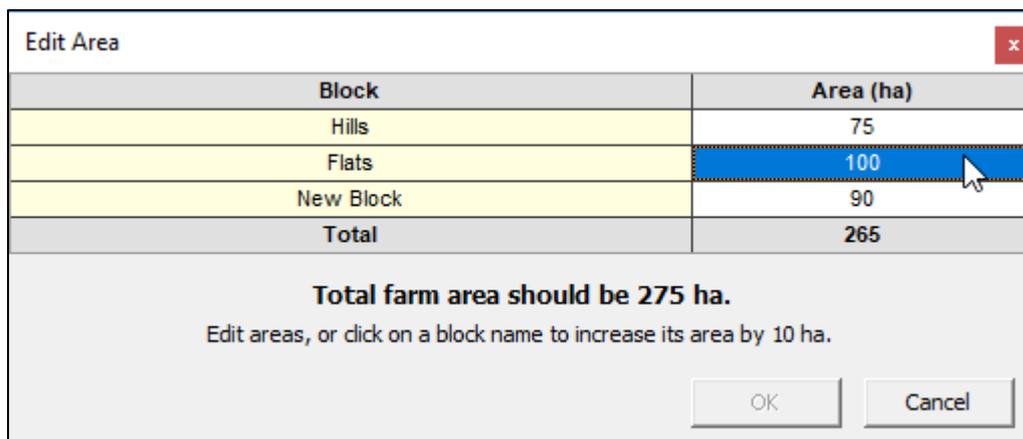


Figure 14: Edit area of blocks.

### Offline Messaging

When in offline mode, you will now see an orange banner across the top of the Farmmax toolbar, saying 'Offline'.

Note: while offline, the Farmmax application will stop trying to connect with the Farmmax cloud servers.



Figure 15: Offline indicator on toolbar

If you edit any files in offline mode, you will now get a message at the end of your session noting how many files have been edited and reminding you that these will not be synced with the Farmmax cloud servers until the next online session. To sync with the Farmmax cloud servers directly after an offline session, connect to the internet and re-launch FARMAX.

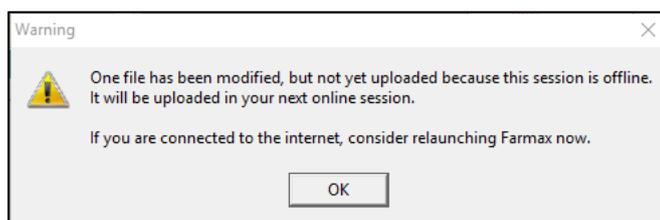


Figure 16: Offline Warning when closing Farmmax

## Printing Reports

You can now edit the title of any report for printing/copying purposes. You can do this by selecting Edit Title from the 'Print' drop down menu.

Renaming does not persist beyond the current Farmax session. The feature is available on any pages that have a Print menu.

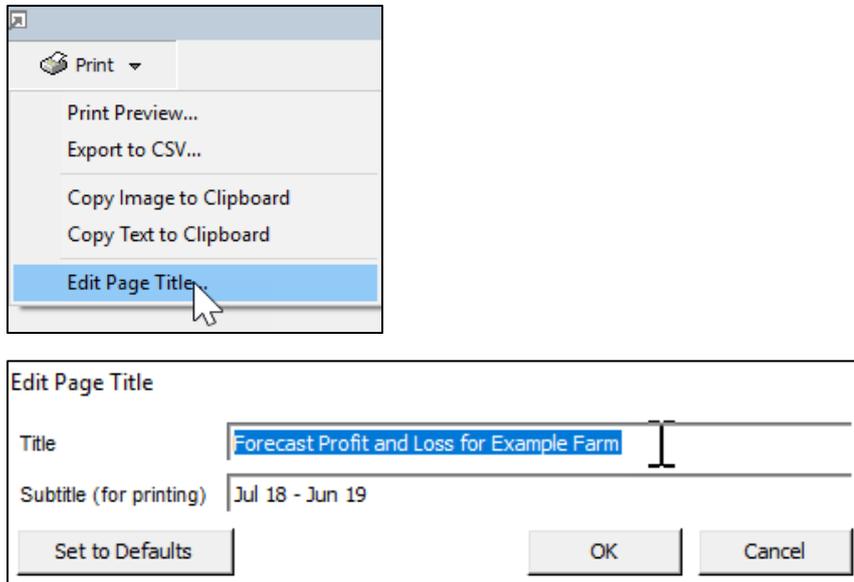


Figure 17: selection option to edit report title and entering new report title

All reports now include the Farmax version number.

The image shows a printed report header. On the left, the Farmax logo is displayed with the version number 'SBD7.2.1.69' highlighted by a red box. The main title is 'Forecast Profit and Loss' and the subtitle is 'Jul 18 - Jun 19'. Below the header, a table is visible with columns for 'Sales - Purchases' and 'Wool', and a row for 'Sheep'.

Sales - Purchases	
Sheep	Wool

Figure 18: Version Number on printed reports

## Edit Gestation Length

We have added a new feature to allow users to model shorter gestation stock and shorter mating periods. Editing gestation length means editing the time between mating date and mean lambing/calving date.

To edit the gestation length, click on the ellipsis next to the lambing/calving/fawning date.

	Model	Override	Actual
<b>Mating</b>			
Mating	20 Feb 17	Sire Breed	Romney
Body Wt.	65.0 kg	Scan Index	2.58 2.54
<input type="checkbox"/> Scanned		Preg. %	167 % 165
Mated Ewes	2780	Lambs	4654 4587
<b>Lambing (mid)</b>			
Lambing	18 Aug 17	Losses to Tailing	25.8 %
Tailing	18 Sep 17		
Mated Ewes	2685	Lambs	3276
<b>Weaning</b>			
Weaning	16 Nov 17	Losses to Weaning	4.8 %
Age	90 days	Weaning %	116 %
Mated Ewes	2685	Lambs	3115
		Lamb Weight	30.2 kg
Ewe Lambs into	MS Lbs 17		
Ram Lambs into	MS Lbs 17		

Figure 19: Edit Gestation Length ellipsis on Mating Screen

Edit Gestation Length

Gestation Length  days From start mating to start lambing

Half Lambing Spread  days From start lambing to mid lambing

Figure 20: Edit gestation days

You can also choose to edit the lambing/calving spread. This has the same effect as editing the days between mating and mid lambing/calving. FARMAX does not model spread, in that calves and lambs all drop on one day (mid lambing/calving) and the demand for lactation increases for the whole mob on that day. If your mob has a shorter mating period but a normal gestation length, you may choose to edit the spread field instead of the gestation field, for record keeping purposes.

## Weight Gain Contracts

The Weight Gain contracts in FARMAX work on dollars per kg live of weight gained basis. Revenue is paid monthly and can be viewed in the grazing mobs Contract report or at the farm level Cash Forecast report.

The updated Weight Gain contract includes some new options. In the contract database, where you set up contracts, you can now specify if negative gain should be included and therefore generate a negative revenue. You can now also exclude offspring weight from the contract, which is useful for those modelling hogget grazing, and prevents the weaning weight of lambs from contributing to LWG and therefore revenue.

Grazing Fee (all stock classes)	
\$/kg LWG	2.00
Exclude offspring at foot	<input checked="" type="checkbox"/>
Exclude weight loss months	<input type="checkbox"/>

Figure 21: Weight Gain contract options

## Stock Reconciliation Report (Pre-Wean Numbers)

The Stock Rec report has been modified to now only show pre-wean offspring numbers by selection. The default view will now only show offspring numbers as they are weaned. The exception to this is if there are pre-wean sales, in which case the pre-wean row will show by default.

Stock Reconciliation for Example (Whole Farm)											
Options											
Reconciliation											
(end of month)	<input checked="" type="checkbox"/> Include Initial Ageing <input checked="" type="checkbox"/> Include Off-Farm Mobs <input checked="" type="checkbox"/> Include Pre-Weaned Stock										
	17	Oct 17	Nov 17	Dec 17	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	
Ewe Lamb			1600	1600	1600	1600	1600	1600	1600	1600	1600
Ewe Hogget	1435	1435	1435	1371	1371						
Ewe	3975	3970	3941	3941	3736	4702	4497	4325	4320	4315	4310
Ram Lamb			1180	1177	1174	1171	1128	1128	1128	1128	1128
Ram Hogget	1042	961	876	796	100	100	100	100			
Ram	69	68	66	64	80	78	77	75	73	72	71
Mixed Lamb			4128	2983	3266	1972	1062	552			
<b>Total Sheep</b>	<b>6521</b>	<b>6434</b>	<b>6318</b>	<b>6172</b>	<b>12195</b>	<b>10640</b>	<b>10714</b>	<b>9243</b>	<b>8183</b>	<b>7667</b>	<b>7109</b>
Heifer Calf			36	36	36	16				50	50
1-Year Heifer	50	50	50	50	50	50	50	150	150		
Cow	457	237	237	237	221	221	221	100	230	230	230
Bull	2	2	2	2	2	2	2	2	2	2	2
1-Year Steer			36	36	36	36	36	36	36	36	36
<b>Total Beef</b>	<b>509</b>	<b>289</b>	<b>289</b>	<b>289</b>	<b>345</b>	<b>345</b>	<b>345</b>	<b>325</b>	<b>288</b>	<b>418</b>	<b>318</b>

Figure 22: Stock Reconciliation with pre-wean lambs excluded (default)

## Transfer Out Events

The Transfer Out event panel now has a different way of selecting a destination mob, including the option to create an identical mob.

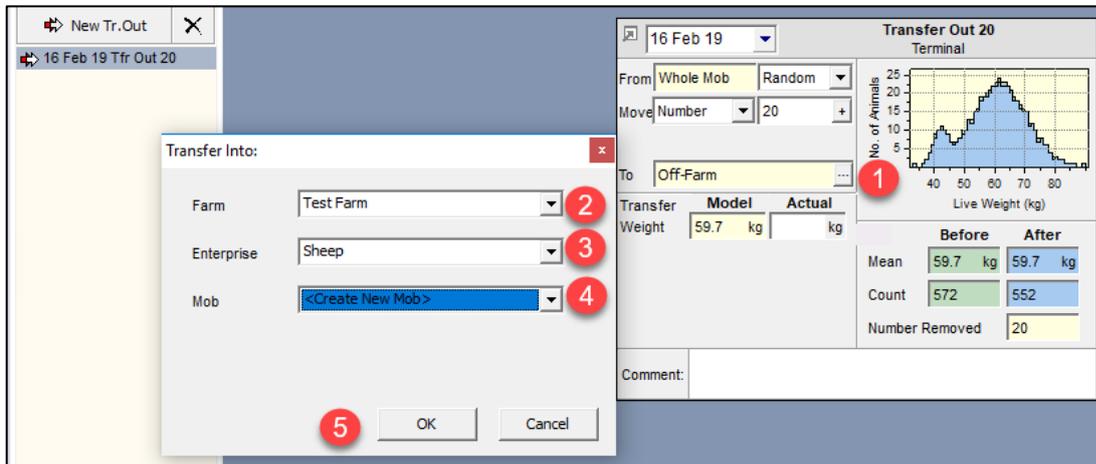


Figure 23: Setting up a transfer out event



1. Select ellipsis next to the 'To' field
2. If animals are transferring to a different farm, select that from drop down, or leave as default (same farm)
3. Select Enterprise animals are moving to, or leave as default (same enterprise)
4. If the destination mob already exists, select it from the drop down. Alternatively, selecting <Create New Mob> will create a new mob that has the same properties as the mob the animals are moving from.
5. Select OK

## Improvements to FarmIQ – Farmax Integration

### Set Up Details

Farmax will now show you an error message if the credentials entered in the set-up screen are invalid. If this happens, we recommend checking that the Partner Access page in FarmIQ is enabled and that the details from that page have been entered correctly into Farmax.

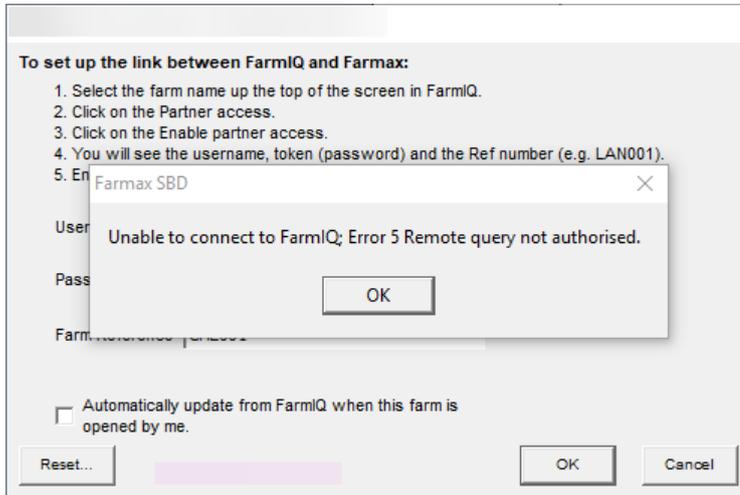


Figure 24: FarmIQ Credentials error

### Import Period Start Date

When importing from FarmIQ into Farmax, you can specify the period you want to import. Previously, the start date reverted to the start of the file with each new import. Now the start date used for the last Import will always be remembered from your last import.

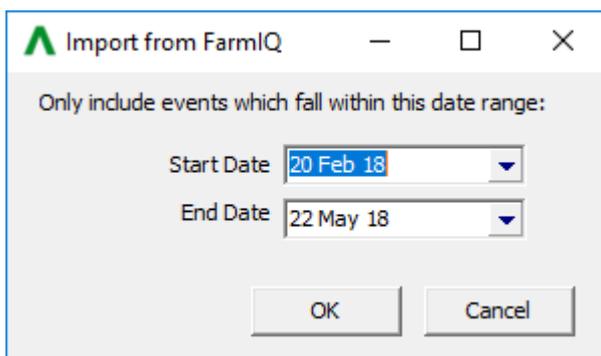


Figure 25: Import from FarmIQ start Date/ End date for import

## Grazing Mobs and Off-Farm Events

Grazing transfer events imported into Farmmax from FarmIQ will now create a Yellow Grazing Off-farm mob within the Farmmax file.

**Yellow Grazing Off-farm mobs** represent animals owned by the farm that are being grazed elsewhere. These mobs have a yellow icon in the Farmmax Tree view. Yellow **Grazing Off Farm** mobs are owned by the farm, so they are included in the Farmmax stock rec and the financial reports. They do not contribute to the farm's dry-matter intake or pasture cover.

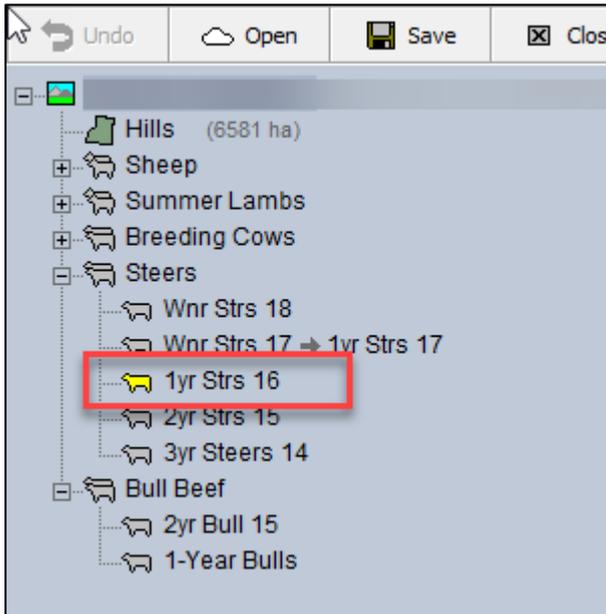


Figure 26: Yellow grazing mob, representing animals owned by the farm but grazing off farm.

The objective of this change is to keep track of animal numbers and performance while at grazing and to allow for more accurate Farmmax reporting.

When a 'send grazing stock' event is imported into a Farmmax file, a Transfer out event will be created in the mob that trait group its matched to in Farmmax. The transfer out event will send the animals to a newly created mob (instead of sending the animals 'off farm')

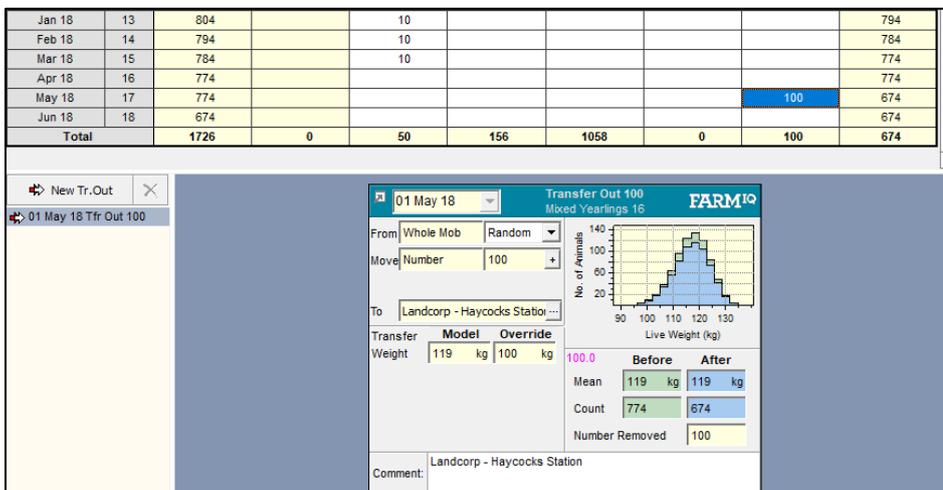


Figure 27: Transfer out event create from a FarmIQ 'Send Grazing Stock' event

The new mob will be in the same enterprise as the sending mob and will have the name of the receiving Farm.



Figure 28: Yellow off Farm Grazing mob named for the receiving farm

When a **'bring stock home'** or a **send grazing stock** event for your animals grazing on another farm is received, Farmmax will create a corresponding Transfer in event. If there is not already an off-farm grazing mob for the stock being brought home, Farmmax will also create that yellow mob, so the animal can be transfer from a mob rather than appearing from 'off farm'

### Events while at Grazing

Events recorded against animals while at grazing, such as deaths or sales, will be visible in the **Off-Farm Grazing mob's** numbers screen.

### Blue Grazing On-Farm Mobs

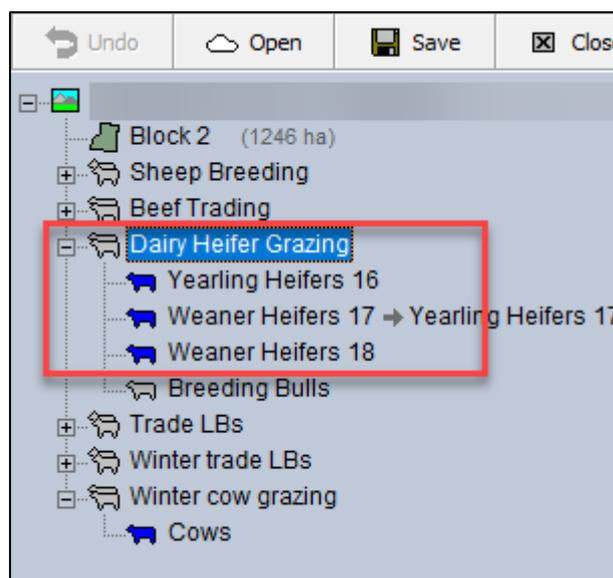


Figure 29: Blue mobs representing animals grazing on the Farm

**Blue Grazing On-Farm mobs** represent animals not owned by the farm being grazed on the Farm. Events sending these animals to the farm and back home are not affected by these changes

If a 'sent grazing stock' or 'receive grazing stock' event is associated with a trait group matched to a Blue On-Farm Grazing mob, then any transfer in or transfer out events will not create yellow off farm Grazing mob.

**Note**

The change to managing grazing events applies to events imported with version 7.2. and above. If grazing events have already been imported into Farmax, they will not be changed with the next import, unless that event is edited in FIQ or all FIQ events in the Farmax file a reset via the FIQ set up screen.

## Farmax Advantage Customers

At the Farmax Advantage level, you have the benefit of all the enhancements detailed in the previous sections of this document. You also have the benefit of the new Farmlets feature. You can find out more about Farmlets [here](#).

### Examples of Farmlet features



Figure 30: Farmlets in the Farmax tree

			Farmlet 1	Farmlet 2	Lucerne	Total
			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Revenue	Sheep	Sales - Purchases	0	-55,252	67,888	12,637
		Internal Sales - Purchases	0	68,851	-68,851	0
		Wool	0	3,258	0	3,258
		<b>Total Sheep</b>	<b>0</b>	<b>16,857</b>	<b>-963</b>	<b>15,895</b>
	Beef	Sales - Purchases	249,337	6,206	-144,636	110,907
		Internal Sales - Purchases	16,158	-167,380	151,222	0
		Capital Value Change	-177,779	277,810	0	100,031
		<b>Total Beef</b>	<b>87,716</b>	<b>116,635</b>	<b>6,586</b>	<b>210,938</b>
	Crop & Feed	Capital Value Change	50,132	4,026	0	54,158
		<b>Total Feed</b>	<b>50,132</b>	<b>4,026</b>	<b>0</b>	<b>54,158</b>
<b>Total Revenue</b>			<b>137,848</b>	<b>137,519</b>	<b>5,623</b>	<b>280,990</b>
Expenses	Crop & Feed	Conservation	21,014	2,093	0	23,107
		<b>Total Crop &amp; Feed</b>	<b>21,014</b>	<b>2,093</b>	<b>0</b>	<b>23,107</b>
	Stock Costs	Animal Health	2,111	1,017	256	3,385
		Shearing	0	3,237	0	3,237
	<b>Total Stock Costs</b>	<b>2,111</b>	<b>4,254</b>	<b>256</b>	<b>6,622</b>	
Interest on Capital (livestock & feed)		15,651	4,346	769	20,766	
<b>Total Variable Expenses</b>			<b>38,777</b>	<b>10,693</b>	<b>1,025</b>	<b>50,495</b>
<b>Gross Margin</b>			<b>99,072</b>	<b>126,826</b>	<b>4,598</b>	<b>230,496</b>
<b>Gross Margin per ha</b>			<b>187</b>	<b>239</b>	<b>9</b>	<b>435</b>

Figure 31: Compare Farmlet Gross Margin report