GRASS

MATE

User Manual—v2.1.1

Updated July 2012

Click on the subject to get detailed information.

1. Register the Mate app with Farmmates.com.

2. [Log in](#).

3. [Setup your paddocks sizes and effluent areas](#).

4. [Start entering grazing dates.](#)

5. [Enter farm walks](#)

6. [Start recording effluent irrigator movements](#)

7. [Record fertiliser applications](#)

8. [Ensure you export your farm to Farmmates.com for backup](#)

DM - Drymatter

Pad - Paddock

Ha - Hectares

CM - Centimetres

Pre DM - Pre Grazing Drymatter

Post DM - Post Grazing DM or Residual

Eff - Effluent

PIC - Person in charge

Export (uploads) to farmmates.com (overwrites server copy)

www.farmmates.com

Import (downloads) from farmmates.com
(Overwrites phone copy)

Tap the "i" to export or import

Team members phone

(Same username & password)
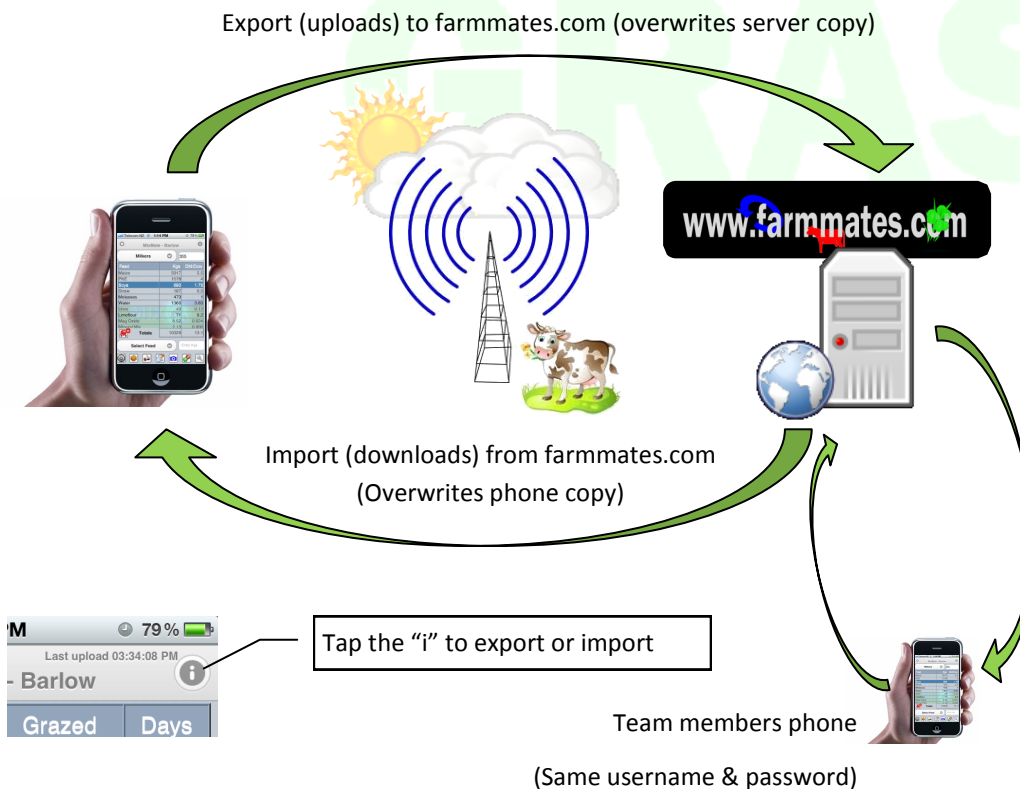
GrassMate is downloaded from the web and installs on your phone. It then stores it's data that you enter on your phone in an area protected from other apps. The industry calls this protection "Sandboxing". Using GrassMate is the only way of seeing this data and if you didn't backup your data you would lose it if/when you lost your phone.

The Mate apps have an Export/Import feature where your data is exported to www.farmmates.com as backup. (*The farmmates.com server will keep your data for one month after your registration is expired.*) From here you can retrieve your data onto another device or have other members of your team retrieve the data for use on the farm. You will need to use the same login ID & password each time.

You are paying for a registration, not the app on your device, so you are free to use that on as many devices as you wish. e.g. if you have a large farm with 10+ staff then they will all have access to the data with that registration. With this in mind it is recommended that your password is not a personal password but a team appropriate password.

Retrieving data will overwrite ALL the data on your phone with the data on the farmmates.com server. It is recommended that staff or viewers of your data check the "Import on startup" option so they always have the latest version of your data. If you are the person in charge then take care importing if you are unsure which user has last backed up the data. You can use the Undo Import option if the Imported data is not what you were expecting.

Mate Apps although have small files will use mobile data allowance Exporting and Importing. If you have Mobile Data turned off you can export/import using your home Wi-Fi network once in range. This will use your home phone line data allowance (most people have spare) and not your mobile data allowance.

Export:

Exports entire farm records to Farmmates.com.

Import:

The Import option imports everything and overwrites whatever is on your phone.

'Import on Startup'

If you put info into your phone it automatically sends it to farmmates.com (when connected) then as soon as you restart GrassMate on any phone, and sign in, it looks for the backup copy on server and automatically imports it.
So if a team member does a farm walk with their phone then that automatically is sent to the server. Then when you start GrassMate it downloads the new farm info to your phone.

When you first enter GrassMate you are presented with the Home Screen. Here you can register with farmmates.com, try out GrassMate as a Guest or 'sign in' to use your own details.

Check out which version of Grass-Mate you are running.

Your login ID is entered here. You choose this in the 'Register' screen. *(Case sensitive)*

Grass Mate

Enter your farm login ID

Bestfarmerever

Password

●●●●●●●●

☑ Auto login on startup

☐ Import on startup

Register   **Guest**

Login

Your password is entered here. You choose this in the 'Register' screen also. *(Case sensitive)*

Select Auto login to skip through this screen automatically next time you enter GrassMate.

You can log in here as a guest to try out GrassMate before you are registered. No data can be saved.

Register button will take you to the registration screen where you can enter you details.

If Import on startup is checked then each time you enter Grass-Mate it will look on the web for a backup copy of your farm data. This is good for staff who always need the latest data from the person in charge of grass management.

Press Login once you have entered your login ID and password. GrassMate will verify your registration* then take you to the paddock list screen

* If no internet access is available you will then have 15 days to use GrassMate before a Login online is required. This enables you to use GrassMate when you need it even if there is no internet access.

Your login ID.

Import/Export Message.

The Home button returns you to the Home screen.

Farm data displaying Paddock #, hectares, latest DM, last graze date and days since last graze.

Tap the number of the highlighted paddock to automatically go to the Grazing Entry screen. If Default values are set with auto entry & exit GrassMate will do all the work

Greyed out DM value indicates the paddock has been grazed since the DM reading so the DM is now historical. If you enter a residual with the grazing the residual DM will display here.

Total effective hectares of the farm

Average farm cover in DM/Ha

Goes to the walk entry screen.

Goes to the DM graph screen.

Goes to the farm setup screen.

Round calculator or DM calculator.

Once logged in the Paddock list is displayed showing your farm data, sorted by whatever you had sorted previously. The 7 icons at the bottom act like a menu for going to different screens.

Export/Import your data from farmmates.com. If a team member has changed the data and exported it, you can Import it here.

Select either Pad, DM or Days to sort table .

Crop paddocks indicated by orange /yellow/golden highlight. They are also sorted to the bottom when sorting by Days.

Effluent paddocks are highlighted green.

Average of the days since grazing of 5 paddocks grazed the earliest.

Last grazing entered

Goes to the grazing entry screen.

Goes to effluent irrigator records screen.

Goes to the fertiliser applications screen.

GrassMate - Barlow

Last upload 03:34:08 PM

Telecom NZ 3:34 PM 79%

Pad	Ha	DM	Grazed	Days
16	1.3	2222	29/07/12	3
17	1.3	2300	24/07/12	8
18	1.6	2506	14/07/12	18
19	1	1590	18/07/12	14
20	0.7	2380	22/07/12	10
21	1.3	1716	19/07/12	13
22	1.4	0	20/07/12	12
23	1.4	2100	21/07/12	11
24	1.4	1874	16/07/12	16
25	1.4	1685	17/07/12	15
26	1.4	2822	28/07/12	4
27	1.75	2475	28/07/12	4
28	1.75	2380	30/07/12	2

Ha	60.35	Round	Avg of top 5	18
Cover	2030	Last Entry		01/08/12

The back button returns you to the paddock list and gives you an option to Write Walk file. A Walk File is a record of all the paddocks DM, kept as a diary entry and is used for comparison in the DM Graph. Write the file once all data has been entered. If you do not write the file your DM data will be lost the next time you enter DM. GrassMate will export farm to farm-mates.com

Important: When writing the file it looks for all entries on the date selected. All other entries are ignored.

Walk Entry screen is used to enter the DM readings of your farm.

Walk date. Important: Ensure this is set BEFORE you start entering data. Changing this date mid walk will only change the date for subsequent entries.

Import your walk data from an electronic pasture meter. (See next page)

Paddock list showing DM from a previous walk (in grey) or current (in black)

Select a paddock and use these arrow keys to change the paddocks walk order.

Currently selected paddock. Select from the paddock grid.

Enter DM here

Enter CM here.

Keypad for entering numbers

Save the DM entered for the paddock selected and go to the next paddock in the walk order.

Toggle between entering DM or CM

Skip this paddock for now

Formula to calculate DM from CM.

Enter paddock as currently in crop.

Telecom NZ 12:20 PM 87%

Walk Entry

1 2 3 4 5 6 7 8
2380

Walk Date 01/08/2012

Pad #: 4
DM: 2455
CM: 16.3

DM

DM Formula
X 120 + 500

1 2 3 4 5 6 7 8 9 . 0 C

Next
Skip
Crop

Import Walk Instructions

1. Export your data from your PC software. Either .csv or .xls file type.

2. Open the file in Excel. Select/highlight the cells containing Pad, Ha, DM columns and copy *(Ctrl-C or Ctrl-Ins)* this to the clipboard*. (*Columns may need to be moved if your software does not export in Pad,Ha,DM order. Please do not email farmmates support for NON-farmmates software help. You may send your data email and I can verify if it is correct or not*)

3. In your email program 'paste' *(Ctrl-V or Shift-Ins)* the copied data from the clipboard into a new email message and send it to an email address your phone can view. *(Note: You can send an email to yourself if your phone checks your email.)*

4. In your phone's email, from the message you sent yourself select all the data *(long press on iPhone)* and copy to phone's clipboard.

5. In GrassMate's Import Walk screen, paste the copied data into the box labled "Paste import walk data here."

6. Convert the data if necessary (See note opposite).

7. Press Verify to check all is OK. (*If not, try changing the Data Separator. The space between data may be a tab etc*)

8. Press Import if data is correct.

* A place in your computer's memory used to temporarily hold information.

This screen imports data from your PC. The data is 'Copied' from an email, sent to your phone, containing data exported from your PC.

WARNING! This is a complex operation and will need a degree of computer literacy to understand what you are achieving here but once mastered is very easy and quick.

The back button.

Brief reminder of instructions. See opposite.

Telecom NZ 1:23 PM 81%

Import Walk - 8/01/2012

Pasturemeter data import instructions:
1. Export Pasturemeter data to a .xls file.
2. Open that file in Excel (or similar) spreadsheet.
3. Select & Copy all Paddock #, Ha & DM cells only
4. Paste that data into a new email.
5. Send the email to this phone.

Paste import walk data here.

Convert paddock data from 3 lines to 1 line

Data separator Comma Space Tab

| Pad | Ha | DM |

Create

✓ Verify

ⓘ Import

This is where you paste the data from the email you sent to your phone in "Pad,Ha,DM" format.

If your data ends up in a vertical format eg

```
1
1.2
3421
2
2.1
1584
```

you can convert it to linear format

```
1 1.2 3421
2 2.1 1584
```

Select whether your data is separated by a comma, space or a tab.

Once your data is verified you will see it appear here in the verified grid.

If your data verifies OK and it looks good in the verified grid press Import to import.

Press Verify to check your data and display it in the verified grid in the bottom left.

Check this box to create the paddock if it does not exist. Usually only the first time you import.

Toggle between graph view and table view.
(Table view has the option of deleting a walk)

View current DM and historical walk (Saved with 'Write file' when exiting walk entry screen.) in graphical DM order or table order.

The back button returns you to the paddock list.

Sexy GrassMate logo

DM Graph **Graph**

Trend line

Individual paddock DM results in DM descending order.
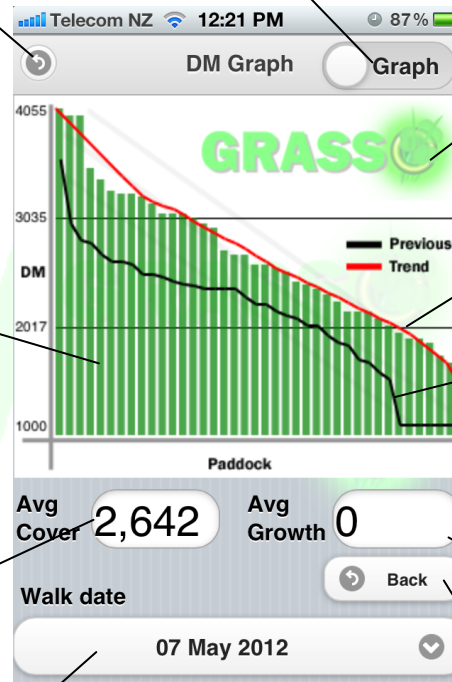
Black line shows the graph results of the previously view graph

Average farm cover for the walk.

Average growth recorded for the walk at the time the file was written.

Select walks from a list of all available written walk files.

Back button to Paddock list

Avg Cover 2,642 **Avg Growth** 0

Back

Walk date

07 May 2012

Telecom NZ 12:21 PM 87%

4055
3035
DM
2017
1000
Paddock

Previous
Trend

Setup your farms paddock sizes and enter whether they are effluent paddocks or not.

The back button returns you to the paddock list.

Paddock number

Type in the Ha of the paddock

Enter the Ha

Check here if the paddock has effluent spread in it regularly.

Farm data

Type in '0' and hit enter on the last row to delete a paddock.

Total area entered in Ha.

Telecom NZ 12:21 PM 87%

Farm setup

Pad	Ha	Eff
1	1.5	No
2	1.6	Yes
3	1.3	Yes
4	1.4	No
5	1.4	Yes
6	0.9	Yes
7	0.75	No
8	0.75	No
9	1.5	No
10	1.8	Yes
11	1.9	Yes
12	1.9	No
13	1.3	No
14	1.4	No
15	1.5	No
16	1.3	Yes

Paddock: 1

Ha 1.5

Enter

Effluent

Enter 0 in the last row to delete a paddock

Total Ha: 60.35

The back button returns you to the paddock list.

Goto DM calculator

3 calculators; A spring rotation planner, DM demand and a DM calculator

Round Calc — Telecom NZ 12:21 PM 87%

Tap the screen to move the day the intersecting lines are on.

Tap to move

18/07 (59)
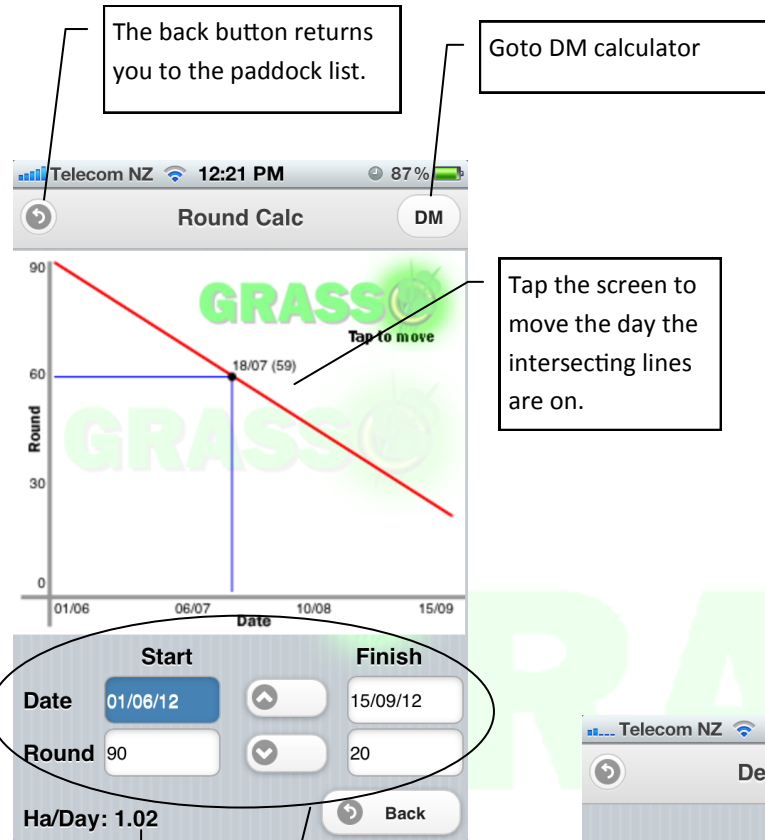
Ha/Day that is grazed at currently selected round length

	Start			Finish
Date	01/06/12	▲		15/09/12
Round	90	▼		20

Ha/Day: 1.02

Back

Start & finish round info. You can use the arrow keys to change date and days

Goto Round calculator

Type in the paddock # or Ha to calculate.

Enter Pre grazing DM and Post DM (Residual)

Cows grazing

Type either DM/Cow or days in the Ha. GrassMate will calculate the other cell.

DM Calculator — Telecom NZ 5:59 PM 64% — Round

Paddock #		or Ha	1.2
DM/Ha	2,300	Residual	1,200
Cows	55		
Days	4	or Grass DM/cow	6
Supplement		Total DM or DM/Cow	
Grass silage	200		3.64
Supplement 2	0		0
Supplement 3			
Supplement total	200		3.64

DM/Cow 9.64

Back   Demand

Grass & Supplement Total DM/Cow

Back to paddock list

To Demand calculator

Type in Mob name, size and DM/cow/Day.

Demand Calc — Telecom NZ 5:59 PM 64%

Mob name	Mob size	DM/Day
Heifers	43	6
Calves	95	5
Enter mob name here		

Available Ha   18

Demand DM/Ha/Day   40.72

Back

Type in available Ha to calculate demand/ha/day.

Type in total DM/day for the feed or DM/Cow. GrassMate will calculate the other cell

How to use Applications screen.

Create a New application with a recognisable name *eg Urea Jul 12 or Pasture Kleen Jun 12*

Select the application window *eg. You may want fert on all paddocks grazed between day 0 and 25 if on a 40 day round.*

GrassMate will display the paddocks that have been done already, paddocks that are outside the window in the Can't column and paddocks in the application window in the Can column.

Hit the Done arrow to record an application with the rate and date set at the bottom of the screen.

When Can & Can't columns are empty you have finished the application.

Use this screen to determine which paddocks are suitable for applying fertiliser, spray or any round dependant application.

The back button returns you to the paddock list.

Create New application

Delete an application

Application window. Apply fert/spray on paddocks grazed between these days.

Skip paddocks. Moves to Done column but records no date or rate.

All paddocks done or skipped

Paddock inside application window

Paddock done button.

Paddock outside application window

Paddock not done yet button.

Paddock data

Select a paddock in the Done column to see the date and rate it was applied.

iPhone screen

Telecom NZ 12:24 PM 86%

Applications

Magic stuff Aug 2012

Application created: 01 Aug 2012

Application window Day 0 through 15

Can't (7)	Can (31)		Done (3)
4	1		3
15	2		8
18	5		10
24	6		
30	7		
33	9		
38	11		
	12		

Last grazed: **27/07/12**   Date:
Days since: **5**   Rate:

Application

Date 01/08/2012   Rate 50

Rate to use for paddocks as they are 'Done'

Date to use for paddocks as they are 'Done'. Use arrow keys to change.

Use this screen to record effluent irrigator movements, applications and the PIC (person in charge).

The back button returns you to the paddock list.

Looking for a paddock for the irrigator? This button finds effluent paddocks in the paddock list grazed within x days.

Date of the effluent application

Delete an application entry

Paddock # where the irrigator is.

Save an effluent application/run

Run number of the current run of the irrigator in the paddock

Write a comment here

Effluent run records.

Initials of the PIC (person in charge) of the irrigator and run that day.

Toggles between paddock number cycling (with arrow keys) through effluent paddocks only or all paddocks

Suggested next paddock based on date.

Screen:

Telecom NZ 12:24 PM 86%

Effluent

Date 01/08/12

Pad 3 Eff. Save

Run 4

PIC JH Enter comment here

Date	Days	Pad	Run	PIC	Comment
30/07/12	2	3	3	JH	
28/07/12	4	3	2	JH	
26/07/12	6	3	1	JH	
23/07/12	9	38	3	JH	
17/07/12	15	38	2		

Next paddock due for effluent: 38

The back button returns you to the paddock list and attempts to Export to farmmates.com

Grazing Entry screen is used to enter the paddock grazing dates. Default values and auto exit make entering grazings very fast. Read more.

Grazing date. (Highlighted cell)

Mob name: Use arrow keys to cycle through Milkers - Milkers 1 - Milkers 2- Springers - Dries

Cows grazed

Paddock DM pre & post grazing

Breaks/Days in the paddock

Grazing information

Paddock list showing last grazing date

Day name of the grazing date

Keypad for entering numbers

Use arrow keys to move the blue highlighted cell.

Enter paddock as currently in crop.

Screen content:

.ıll Telecom NZ 🛜 12:24 PM ⏱ 86% ▬

◀ **Grazing Entry - Paddock 15**

9	10	11	12	13	14	15	16	
26	27	27	31	30	23	14	29	
Jul	Jul	Jul	Jul	Jul	Jul	Jul	Jul	

Date 01/08/12   Wednesday (Today)

Mob Milkers

Cows 355

Pre DM 2,380

Post DM 0

Breaks 0

DM/Cow: Round (days):
10.1   18

☑ Exit

1	2	3
4	5	6
7	8	9
+	0	C

🔍 History   ⊕ Default   ✓ Enter

Grazing history screen where you can select a paddock to view all the grazings recorded to the paddock

Set the default values to enter automatically when a paddock is selected. If you select 'Auto' the grazing is entered into the paddock list automatically. If 'Display' is selected the values are displayed for you to check and enter.

If 'Exit' is checked then once you tap enter or a grazing is automatically entered then GrassMate will return to the Paddock List.

One tap grazing entry: It is possible *(with correct settings)* to single tap the paddock number in the paddock list, GrassMate can automatically enter default values *(Today's date)* and exit again back to paddock list.