



My DairySAT Action Plan

This action plan lists the practices to improve on your farm for the modules you have selected to cover. It includes key resources and contacts to help you get more information to improve your practices and your personalised notes and actions for each practice.

Modules	Status	Date last edited
Soils	0 0 Actions to plan: 0	24/09/2015
Fertilisers	4 0 Actions to plan: 4	08/09/2015
Effluent Management	0 4 Actions to plan: 0	24/09/2015
Irrigation	0 0 Actions to plan: 0	Not started
Greenhouse Gas Emissions	0 2 Actions to plan: 0	24/09/2015
Biodiversity	1 0 Actions to plan: 1	08/09/2015
Energy & Water	4 0 Actions to plan: 4	24/09/2015
Pests & Weeds	0 1 Actions to plan: 0	08/09/2015
Chemicals	2 0 Actions to plan: 2	24/09/2015
Farm Wastes	3 2 Actions to plan: 3	24/09/2015

Filtered by:

Fertilisers , Farm Wastes , Energy & Water , Chemicals , Biodiversity

Start/end date & Status	Module ▶ Section	Resources	Notes & Actions
Start: 31-10-	Fertilisers ▶	Fert\$mart program and the Dairy Soils	Matt Thompson to be engaged by

<p>2015</p> <p>End: 31-05-2016</p> <p>Status: In Progress</p>	<p>Nutrient application & spreading</p> <p>Nutrient application rates are not determined by a trained farmer or advisor.</p>	<p>and Fertiliser Manual:</p> <p>http://fertsmart.dairyingfortomorrow.com.au</p> <p>Department(s) of Environment and Primary Industries</p> <p>State Environmental Protection Agencies</p> <p>Dairying for tomorrow technical specialists:</p> <p>http://www.dairyingfortomorrow.com/index.php?id=33</p> <p>Local catchment management authority or natural resource management board:</p> <p>www.nrm.gov.au/about/nrm/regions</p> <p>Local Landcare Group:</p> <p>www.landcareonline.com.au/?page_id=10</p> <p>Agronomist or farm consultant</p> <p>Milk company</p>	<p>the Parmalat Sustainability Project to work with the Bakes on developing a Fert\$mart Plan.</p> <p>As part of this process testing of effluent liquids & solids will be undertaken to use as part of Fert\$mart Planning.</p> <p>Currently Jason tests representative paddocks of a similar soil type so FMZ already determined. Interested in reviewing current FMZ approach with Matt Thompson.</p>
<p>Start: 30-09-2015</p> <p>End: 31-05-2016</p> <p>Status: In Progress</p>	<p>Fertilisers</p> <p>Fertiliser decision making</p> <p>There is no documented farm nutrient management plan.</p>	<p>Fert\$mart program and the Dairy Soils and Fertiliser Manual:</p> <p>http://fertsmart.dairyingfortomorrow.com.au</p> <p>Department(s) of Environment and Primary Industries</p> <p>State Environmental Protection Agencies</p> <p>Dairying for tomorrow technical specialists:</p> <p>http://www.dairyingfortomorrow.com/index.php?id=33</p> <p>Local catchment management authority or natural resource management board:</p> <p>www.nrm.gov.au/about/nrm/regions</p> <p>Local Landcare Group:</p> <p>www.landcareonline.com.au/?page_id=10</p> <p>Agronomist or farm consultant</p> <p>Milk company</p>	<p>See Action Above</p>

<p>Start: 31-05-2016</p> <p>End: 31-05-2017</p> <p>Status: In Progress</p>	<p>Fertilisers ▶</p> <p>Nutrient budget</p> <p>A nutrient budget is not used.</p>	<p>Fert\$mart program and the Dairy Soils and Fertiliser Manual:</p> <p>http://ferts mart.dairyingfortomorrow.com.au</p> <p>Department(s) of Environment and Primary Industries</p> <p>State Environmental Protection Agencies</p> <p>Dairying for tomorrow technical specialists:</p> <p>http://www.dairyingfortomorrow.com/index.php?id=33</p> <p>Local catchment management authority or natural resource management board:</p> <p>www.nrm.gov.au/about/nrm/regions</p> <p>Local Landcare Group:</p> <p>www.landcareonline.com.au/?page_id=10</p> <p>Agronomist or farm consultant</p> <p>Milk company</p>	<p>Fert\$mart Plan to be used in future fertiliser, effluent & solids decision making and management</p>
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<p>Start: 30-09-2015</p> <p>End: 31-05-2017</p> <p>Status: In Progress</p>	<p>Fertilisers ▶</p> <p>Nutrient application & spreading</p> <p>The same rate of fertiliser is used on all paddocks without considering nutrient requirements.</p>	<p>Fert\$mart program and the Dairy Soils and Fertiliser Manual:</p> <p>http://ferts mart.dairyingfortomorrow.com.au</p> <p>Department(s) of Environment and Primary Industries</p> <p>State Environmental Protection Agencies</p> <p>Dairying for tomorrow technical specialists:</p> <p>http://www.dairyingfortomorrow.com/index.php?id=33</p> <p>Local catchment management authority or natural resource management board:</p> <p>www.nrm.gov.au/about/nrm/regions</p> <p>Local Landcare Group:</p> <p>www.landcareonline.com.au/?page_id=10</p>	<p>No PKS fertilisers used over the past eight years. Soil sampling has provided analysis which has indicated levels were high but have not come down substantially over this management period.</p> <p>Effluent used on those paddocks where P&K has been low. Levels rising but not substantially.</p> <p>Urea used across farm 60kg/ha (summer), Winter 125kg/ha (winter). Total around 180 N kg/ha annually.</p> <p>Will seek further input on Nitrogen management across the property through the Fert\$mart Program with Matt Thompson.</p>
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			Agronomist or farm consultant Milk company	
Start: 30-09-2015 End: 30-06-2016 Status: In Progress	Energy & Water ▶ Energy use No performance monitoring system in place.	Dairy Australia <i>Smarter energy use on Australian dairy farms</i> project: http://frds.dairyaustralia.com.au/events/smarter-energy-use Dairy Australia <i>The Future Ready Dairy Systems</i> project: http://frds.dairyaustralia.com.au The CowTime project: www.cowtime.com.au/ Department(s) of Environment and Primary Industries The Victorian Department of Environment & Primary Industries: www.depi.vic.gov.au/agriculture-and-food/dairy/energy-in-dairy/energy-efficiency-in-the-dairy-industry Local electrician or dairy technician	Energy audit undertaken two years ago by Nick Bullock & Associates. Still comfortable to use figures provided in this audit to investigate equipment energy efficiency and installation of solar panel options for energy consumption. Plate cooler water reused as washdown & then into effluent system. Good closed system in place. All water is bore water. Michele to investigate Solar Energy options as part of Parmalat Sustainability Project- cost benefit/ pay back periods to be explored.	
Start: 30-09-2015 End: 30-06-2016 Status: In Progress	Energy & Water ▶ Shed design Water efficiency of shed design and technology is unknown and/or not considered.	Dairy Australia <i>The Future Ready Dairy Systems</i> project: http://frds.dairyaustralia.com.au Department(s) of Environment and Primary Industries The Victorian Department of Environment & Primary Industries: www.depi.vic.gov.au/agriculture-and-food/dairy/energy-in-dairy/energy-efficiency-in-the-dairy-industry	Dairy mainly well planned, however, would be interested in having an external set of "eyes" look over the dairy for any further ideas- both water & energy efficiency.	
Start: 30-09-2015 End: 30-06-2016 Status: In Progress	Energy & Water ▶ Energy capture No practices are undertaken to capture energy and re-use it.	Dairy Australia <i>Smarter energy use on Australian dairy farms</i> project: http://frds.dairyaustralia.com.au/events/smarter-energy-use Dairy Australia <i>The Future Ready Dairy Systems</i> project: http://frds.dairyaustralia.com.au The CowTime project: www.cowtime.com.au/ Department(s) of Environment and	Seek external opinion on any energy efficiencies that can be found (ie. vacuum pumps, variable switches etc.) to make the system as efficient as possible prior to implementing any solar options.	

		<p>Primary Industries</p> <p>The Victorian Department of Environment & Primary Industries:</p> <p>www.depi.vic.gov.au/agriculture-and-food/dairy/energy-in-dairy/energy-efficiency-in-the-dairy-industry</p> <p>Local electrician or dairy technician</p>	
<p>Start: 30-09-2015</p> <p>End: 30-06-2016</p> <p>Status: In Progress</p>	<p>Energy & Water ▶</p> <p>Energy use</p> <p>No consideration of an equipment's energy consumption when purchasing.</p>	<p>Dairy Australia <i>Smarter energy use on Australian dairy farms</i> project:</p> <p>http://frds.dairyaustralia.com.au/events/smarter-energy-use</p> <p>Dairy Australia <i>The Future Ready Dairy Systems</i> project:</p> <p>http://frds.dairyaustralia.com.au</p> <p>The CowTime project:</p> <p>www.cowtime.com.au/</p> <p>Department(s) of Environment and Primary Industries</p> <p>The Victorian Department of Environment & Primary Industries:</p> <p>www.depi.vic.gov.au/agriculture-and-food/dairy/energy-in-dairy/energy-efficiency-in-the-dairy-industry</p> <p>Local electrician or dairy technician</p>	<p>Have not had to purchase any equipment in the past five years, however, if needed to do so energy efficiency would be one of the purchase criteria.</p>
<p>Start: 30-09-2015</p> <p>End: 30-11-2015</p> <p>Status: In Progress</p>	<p>Chemicals ▶</p> <p>Application and use</p> <p>The location of chemical mixing and equipment clean-up is not considered.</p>	<p>Department(s) of Environment and Primary Industries</p> <p>Chemcert:</p> <p>www.chemcert.org.au</p> <p>ChemClear:</p> <p>www.chemclear.com.au</p> <p>AgSafe:</p> <p>http://agsafe.com.au</p> <p>A Material Data Safety Sheet (MSDS) is usually available on the website of the chemical manufacturer and/or retailer marketing the product.</p> <p>Farm consultant or agronomist</p> <p>PUBCRIS, a complete database of agricultural and veterinary chemicals registered for use on Australian dairy</p>	<p>All chemicals stored in a locked and bunded storage facility.</p> <p>Mixing is undertaken outside the facility in an open area of the dairy. All MSDS are stored in the facility.</p> <p>Should spillage occur, the chemicals can drain into the effluent system for dilution.</p> <p>Spillages are managed by using sawdust to soak-up the area and then materials transferred to effluent system. This is a verbal procedure.</p> <p>A written spillage procedure will be prepared and posted on the door of the chemical lock-up and communicated to all employees.</p>

farms:
<https://portal.apvma.gov.au/pubcris>
It is also available as a smart phone app.

Start: 30-09-2015

End: 31-12-2015

Status: In Progress

Chemicals ▶ Training and safety

There are no emergency standard operating procedures (SOPs) to deal with chemical and/or fuel accidents, spills or emergencies.

Department(s) of Environment and Primary Industries

Chemcert:

www.chemcert.org.au

ChemClear:

www.chemclear.com.au

AgSafe:

<http://agsafe.com.au>

A Material Data Safety Sheet (MSDS) is usually available on the website of the chemical manufacturer and/or retailer marketing the product.

Farm consultant or agronomist

PUBCRIS, a complete database of agricultural and veterinary chemicals registered for use on Australian dairy farms:

<https://portal.apvma.gov.au/pubcris>

It is also available as a smart phone app.

Standard Operating Procedures are in place for food safety requirements related to antibiotic management and spills.

The template for these procedures will be used to deal with fuels and herbicides and will be posted on the door of the chemical storage facility.

Start: 30-09-2015

End: 31-12-2017

Status: In Progress

Farm Wastes ▶ Waste milk

Waste milk is disposed of without consideration of whether it will enter waterways or other sensitive areas, or leave the farm. Undiluted waste milk is applied to land.

Department(s) of Environment and Primary Industries

Contact your local departments to find out your legal obligations in managing these wastes.

Your local council:

<http://australia.gov.au/services/service-task/contact/contact-my-local-council>

Local catchment management authority or natural resource management board:

www.nrm.gov.au/about/nrm/regions

Current management is that fresh milk enters the effluent system (diluted) then dispersed onto the paddock.

Bakes are aware that should applications to the paddock be made within 4-7 days of high rainfall, there is a small risk that fresh milk has the potential to reach the waterway.

Future management will be that the effluent will be applied to the lowest risk areas if there is a high likelihood of rainfall.

Start: 30-09-

Farm Wastes ▶

ChemClear:

Need to explore options for silage

<p>2015</p> <p>End: 30-06-2017</p> <p>Status: In Progress</p>	<p>Farm Wastes</p> <p>General rubbish</p> <p>Rubbish not contained in a bin or disposed of by burying or burning.</p>	<p>www.chemclear.com.au</p> <p>DrumMUSTER: www.drummuster.com.au</p> <p>Department(s) of Environment and Primary Industries</p> <p>Contact your local departments to find out your legal obligations in managing these wastes.</p> <p>Your local council: http://australia.gov.au/services/service-task/contact/contact-my-local-council</p> <p>Local catchment management authority or natural resource management board: www.nrm.gov.au/about/nrm/regions</p>	<p>wrap disposal. Only small amounts (estimated 100kg) used annually.</p> <p>Drums currently triple washed and taken to DrumMuster. Contractors used for spraying of herbicides and they are responsible for management of the drums.</p> <p>Waste of dairy is placed in Council collection.</p>
<p>Start: 30-09-2015</p> <p>End: 30-06-2017</p> <p>Status: In Progress</p>	<p>Farm Wastes</p> <p>Silage wrap and stack/pit covers</p> <p>Silage wrap and stack/pit covers are buried, burnt or left in the paddocks.</p>	<p>Plasback program: www.plasback.com.au</p> <p>Department(s) of Environment and Primary Industries</p> <p>State Environmental Protection Agencies</p> <p>Your local council: http://australia.gov.au/services/service-task/contact/contact-my-local-council</p> <p>Local catchment management authority or natural resource management board: www.nrm.gov.au/about/nrm/regions</p>	<p>See above.</p>
<p>Start: 31-01-2016</p> <p>End: 31-05-2016</p> <p>Status: In Progress</p>	<p>Biodiversity</p> <p>Whole farm planning</p> <p>No documented whole farm plan.</p>	<p>Department(s) of Environment and Primary Industries</p> <p>Dairying for tomorrow technical specialists: http://www.dairyingfortomorrow.com/index.php?id=33</p> <p>Local catchment management authority or natural resource management board: www.nrm.gov.au/about/nrm/regions</p> <p>Local Landcare Group: www.landcareonline.com.au/?page_id=10</p>	<p>Currently 90% of waterways on the farm are fenced and rehabilitated. There is some laneway plantings in place which provide some shade and shelter.</p> <p>Michele will be assisted through the Parmalat project to develop a Whole Farm Plan for the property using aerial photography. She is very keen to see further shade and shelter created for the cows using strategic planting.</p> <p>The whole farm plan could be used in the future to seek support for projects from organisations such</p>

Greening Australia:

www.greeningaustralia.org.au
