

2010 Trials Summary



Head Project	Trial	Aim	Partners	Location	Contact
Water Use Efficiency	Systems for Soils	Compare input, rotational and season reactive strategies to identify optimal zoning as soil specific strategies	GRDC CSIRO MSF RSSA	Karoonda	Dr Rick Llewellyn 08 8303-8502
Water Use Efficiency	Break Options	Compare different break options including crops and grazing to quantify their effect on subsequent cereal phases and overall water use efficiency	GRDC CSIRO MSF RSSA	Karoonda	Dr Rick Llewellyn 08 8303-8502
Water Use Efficiency	Variable Rate by soil type NxP	Compare the N x P fertiliser response of cereal on different soil 'zones'	GRDC CSIRO MSF RSSA	Karoonda	Dr Rick Llewellyn 08 8303-8502
Water Use Efficiency	Sulphur response	Compare response of cereal to S or S source on a sandy soil	GRDC CSIRO MSF RSSA	Karoonda	Dr Anthony Whitbread 08 8303-8455
SA SUSTAINABLE PRACTICES	Trace Element (Cu, Zn and Mn) +/- PAM polyacrylamide	Evaluate response of trace element applied on seed and determine if coating with PAM improves TE uptake into plant	DAFF RSSA	Karoonda	Richard Saunders 08 8595-9152
SA SUSTAINABLE PRACTICES	Time of sowing x variety - Axe, Gladius and Yitpi by 3 times of sowing	Determine the effect of variety and time of sowing on yield for the three varieties	DAFF RSSA	Karoonda & Waikerie	Richard Saunders 08 8595-9152
Sustainable Dryland Agriculture Initiative Project	Clay spreading and delving	Assessing the benefits of clay spreading and delving	RSSA	Karoonda	Rebecca Tonkin 0427 273-891
Nutrition in Drought Project	Phosphorus availability	Assessing interaction between soil water and fertiliser use efficiency	University of Adelaide SAGIT ARC	Karoonda	Therese McBeath 08 8303-8107
Advanced Strand Medic lines	Medic improvement	Evaluation of elite strand medics	SAGIT SARDI	Karoonda	Jake Howie 08 8303-9407
EverCrop	Forage shrub production x soil type	Determining the potential performance of saltbush and other potential new shrub systems for the land types of the low rainfall Mallee region	CRC FFI GRDC CSIRO	Waikerie Core Site	Dr Anthony Whitbread 08 8303-8455

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SA SUSTAINABLE PRACTICES	Cladium/VAM trial +/- PAM	To determine effect on wheat yield of Cladium and Mycorrhiza soil fungi applied on seed +/- polyacrylamide on seed	DAFF RSSA	Waikerie Core Site & Peebinga (Lehmann) & Karoonda	Richard Saunders 08 8595-9152
IWM	Integrated Weed Management	Determine IWM systems for conservation farming	GRDC University of Adelaide	Waikerie Core Site	Dr Chris Preston 08 8303-7237
SA SUSTAINABLE PRACTICES	Wheat, Barley, Durum variety trials	To evaluate range of new cereal varieties for suitability to range of soils in Mallee	DAFF RSSA	Waikerie Core Site	Richard Saunders 08 8595-9152
SA SUSTAINABLE PRACTICES	Durum variety by seeding point trial	To investigate any difference between 3 durum wheat lines and 1 bread wheat and their response to either a T-boot or knife point	DAFF RSSA	Waikerie Core Site and Waikerie (Kroehn)	Richard Saunders 08 8595-9152
SA SUSTAINABLE PRACTICES	Clearfield Mustard	To evaluate in a demonstration the potential of Oasis Juncea (mustard) line for Northern Mallee	DAFF RSSA	Waikerie Core Site	Richard Saunders 08 8595-9152
	Perennial grass species	A long term trial to evaluate persistence and grazing of a range of native and exotic perennial grasses	SAMDBNRM MMLAP	Waikerie Core Site	George King MMLAP 08 8531-3075
ENRICH	New forage species	Evaluate a range of native species for potential as forage options in the low rainfall Mallee	CRC FFI CSIRO SARDI SAMDBNRM	Waikerie Core Site	Bill Davoren 08 8303-8656
SA SUSTAINABLE PRACTICES	Seeding rate by Variety	To show the effect of increasing seeding rate on two varieties of wheat	DAFF RSSA	Waikerie (Kroehn)	Richard Saunders 08 8595-9152
Soil Biology/Disease Management	Rhizoctonia management trial	To determine the factors that influence Rhizoctonia inoculum DNA and disease risk in cereal crops in Mallee soils	GRDC CSIRO SARDI	Waikerie (Schmidt)	Gupta VVSR 08 8303-8579
Water Use Efficiency	Nitrogen and Phosphorus fertiliser applications on 3 soil types	Compare the N x P fertiliser response of cereal on different soil 'zones'	GRDC Vic DPI Mallee Focus NorthWestAg	Ouyen	Michael Moodie 0448 612 892
Water Use Efficiency	Nitrogen application timing (Upfront and Strategic N) on 3 soil types	Compare the N timing response of cereal on different soil 'zones'	GRDC Vic DPI Mallee Focus NorthWestAg	Ouyen	Rob Harris 03 5573-0963

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Water Use Efficiency	Break crop trial investigating High and Low input (Seed a fertiliser) Lupins and Canola on three soil types	Monitor impact of the different break crop treatments on following wheat crops	GRDC Vic DPI Mallee Focus NorthWestAg	Ouyen	Rob Harris 03 5573-0963
Improved cereal variety options for increased ground cover	Time of sowing x 6 wheat and 2 barley varieties	Will be sown at three different sowing dates. Measurements include groundcover, biomass, phenology and yield	Mallee CMA Vic DPI Mallee Focus NorthWestAg	Ouyen	Michael Moodie 0448 612 892
Classifying Soil Carbon in Mallee Soils	Soil Carbon sampling	Soil samples will be collected from 30 farms in the North Central Victorian Mallee and analysed for soil carbon through the National Soil Carbon Research Project	Mallee CMA	Ouyen	Michael Moodie 0448 612 892
Water Use Efficiency	Water Use Efficiency Focus Paddocks	A number of focus paddocks have been established throughout the Mallee and monitoring of each paddock for WUE of the crop across several soil types	GRDC SPAA RSSA	Natya Ouyen Merbein Chinkapook Cowangie Loxton Paringa Lameroo	Michael Moodie 0448 612 892
MSF Core Trials	<ul style="list-style-type: none"> Wheat Variety Triticale Variety Canola/Juncea Variety Vetch Variety Phosphorus Lucerne and Perennial fodder plants early breeding trials 	Determining which varieties are best suited to Northern Mallee cropping environment	NSW I&I	Kerribee	Anthony Baird & Peter Jessop 03 5019-8407 Michael Moodie 0448 612 892
Evercrop	<ul style="list-style-type: none"> Dual Purpose forage trial 	Assessing the potential of dual purpose forage on marginal cropping soils	CRC FFI GRDC Vic DPI CSIRO	Werrimull	Rob Harris 03 5573-0963
Southern Barley Agronomy	New Barley Varieties x Sowing Depth x: <ul style="list-style-type: none"> Herbicide Seed Dressing Seed Size 	Understand the effect of agronomic practices on early vigour and plant establishment in new barley varieties	SARDI GRDC	Karoonda	Kenton Porker 08 8303-9475 Rob Wheeler 08 8303 9480
Climate Adaptation	<ul style="list-style-type: none"> Variety x Nitrogen x seeding rate demonstration 	Demonstrate cropping practices that Mallee farmers can utilise to adapt to climate change	DAFF GRDC	Walpeup MRS	Michael Moodie 0448 612 892