



20 20

HART TRIAL
RESULTS

Sponsors

The board of the Hart Field-Site Group Inc would like to acknowledge the significant financial contribution of our committed sponsors, supporters, collaborators and partners.

Principal Sponsor



Sponsors



Stock journal



Research supporters



We also receive project funding support provided by the Australian Government

Collaborators



Hart 2021 calendar

HART FIELD DAY

September 21

Our main Field Day attracts over 600 visitors from all over the South Australia and interstate.

Every half hour a block of eight sessions are run simultaneously with highly regarded specialists speaking at each trial. A comprehensive take-home Field Day Book is included in the entry fee.

This is Hart's main event of the year.



Hart AGM

October 12

8am via Zoom

All welcome

Please register with Sandy on 0427 423 154

Getting The Crop In

March 10

8am – 12:30pm

At this annual seminar, industry guest speakers from across the county cover a wide range of topics, all relevant to broadacre cropping.

Winter Walk

July 20

9am – 12pm

An informal guided walk around the trial site; the first opportunity to inspect the site post seeding, with guest speakers presenting their observations on current trials.

They are on hand to answer questions and will also share their knowledge on all the latest cropping systems and agronomic updates.

Spring Twilight Walk

October 19

5pm followed by BBQ

Another informal opportunity to inspect the trial site, this time just prior to harvest, again with industry researchers & representatives presenting in the field.

This event is followed by drinks and a BBQ in the shed - a great opportunity to network.

Acknowledgements

The success of our research program could not be achieved without the contribution of a large number of people and organisations.

Supporters

We thank the numerous growers and consultants who provide various contributions, from knowledge and experience through to land and equipment for conducting trials.

Peter Baker	Peter Hooper	Stuart Sherriff
Shawn Cadzow	Michael Jaeschke	Damien & Ben Sommerville
Chris Clarke	Brendan Johns	Sam Trengove
Andrew Cootes	Jim Maitland	Tom & Ashley Robinson
Rob & Dennis Dall	Mid North High Rainfall Zone	Rob & Glenn Wandel
Matt Dare	Group	Anthony Williams
Mick Faulkner	Daniel Neill	Justin, Bradley & Dennis
Leigh Fuller	Ruben & Gareth Ottens	Wundke
Wayne Heading	Anthony Pfitzner	
Simon Honner	Stefan Schmitt	

We would also like to thank various organisations for the provision of seed and/or products that were trialed in the 2020 research program.

ADAMA	Durum Breeding Australia	Pulse Breeding Australia
Advanta Seeds	FMC	S & W Seeds
Australian Grain Export	Global Grain Genetics	SARDI – Vetch Breeding
Australian Grain	Imtrade	Program
Technologies	InterGrain	Seednet
Barenbrug	LongReach Plant Breeders	Seed Force
BASF	Marcroft Grains Pathology	Sumitomo
Bayer Crop Science	Nufarm	Syngenta
Clare Metal Fabrication	Nuseed	UPL
Corteva Agriscience	Nutrien	
Crop Care	Pioneer Seeds	

Partners

Blyth Revegetation Committee, Mid-North Grasslands Working Group, Wakefield Regional Council

Site Management

SARDI, Agronomy Clare:

Patrick Thomas, John Nairn, Phil Rundle, Sarah Day, Richie Mould, Navneet Aggarwal, Penny Roberts, Dylan Bruce, Greg Walkley, Amber Spronk, Trevor Lock & Jacob Nicolai.

Hart Field-Site Group:

Rebekah Allen, Sarah Noack & Brianna Guidera

Our guiding principles

OUR PURPOSE

To deliver value to growers and make agriculture better
(in productivity, sustainability & community)

OUR VISION

To be Australia's premier cropping field site, providing independent information and enhancing the skills of the agricultural industry

OUR VALUES

Independence

in order to provide unbiased results

Relevance

to issues facing farmers

Integrity

in all dealings

Credibility

through providing reliable, quality information

Professionalism

in the management of the site and presentation of trials

Value for money

low cost of information to farmers

Hart management

Hart Field-Site Group board

Ryan Wood (Clare)	Chairman
Andre Sabeeney (Clare)	Vice-chairman
Sandy Kimber (Clare)	Executive officer
Deb Purvis (Wallaroo)	Finance officer
Matt Dare (Marola)	Commercial crop manager, sponsorship
Damien Sommerville (Burra)	Sponsorship
Leigh Fuller (Koolunga)	Community engagement, sponsorship
Peter Baker (Clare)	Board member
Simon Honner (Blyth)	Board member
Rob Dall (Kybunga)	Board member
Glen Wilkinson (Snowtown)	Sponsorship
Stuart Sherriff (Clare)	Board member
Rebekah Allen	Research & extension manager
Sarah Noack	Research & extension manager
Brianna Guidera	Regional intern
Gabrielle Hall	Media

Contact us in person...

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Executive Officer

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admin@hartfieldsite.org.au

Or find out more about us...





Hart Field Day

September 21, 2021

www.hartfieldsite.org.au

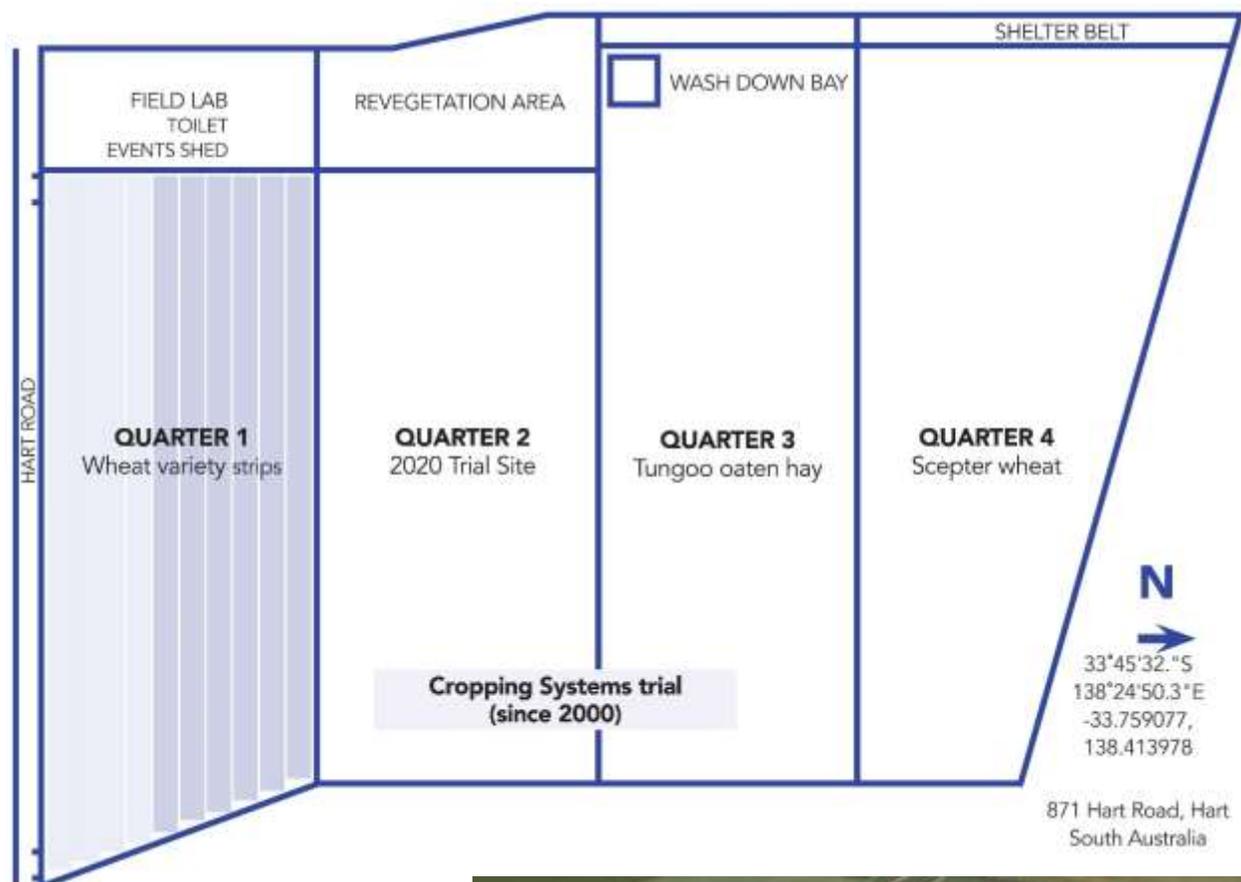
The Hart site

The Hart field site (40 ha owned by the group) is managed as four quarters that are rotated each year. In 2020, Quarter 2 hosted our trials.

Quarter 3 was sown with Tungoo oats and was cut for hay to tidy the site in preparation for 2021 trials.

Quarters 1 and 4 were sown with wheat as our commercial crop.

**Quarter 1 included a wheat variety demonstration strip.*



Hart field site 2020 - Quarter 2.

Hart commercial crop report

Matt Dare; Hart Field-Site Group

This season's commercial crop was sown to Scepter wheat in Quarters 1 & 4 on May 29 (for more Q1 information, see next page).

Quarter 3 of the site and the car park (8 ha) was sown to Tungoo oats for hay on May 29 in preparation for the 2021 trial site. Seed was kindly donated by local grower Jim Maitland. Also thanks to Rob Wandel for rolling the hay.

Nitrogen was applied to Quarter 1 as 100 kg/ha urea on July 10 and was applied to Quarter 4 at 70 kg/ha on August 10. Thanks to Jim Maitland for spreading Quarter 1.

Russian wheat aphid has been present in the commercial crop and a selective insecticide was applied recently with the broadleaf herbicide.

The commercial crop was harvested on December 9 by Justin Wundke and yielded 2.65 t/ha (H2).

The whole site was sprayed by Rob Wandel in early January for summer weed control.

Quarter 1 - 8ha Commercial wheat crop - wheat variety strips x 2 TOS		
	TOS1	TOS2
Spray:	April 27, 2020 1.5 L/ha Glyphosate 520 g/L + 100 ml/ha Striker + 210 ml/ha SakuraFlow + 1% AmmSulfate v/v +0.25% LI700 v/v @ 100 L/ha	May 27, 2020 2 L/ha Glyphosate 520 g/L + 100 ml/ha Striker + 160 ml/ha Dicamba750 + 3 L/ha Prosulfocarb + 2% AmmSulfate v/v +0.4% LI700 v/v @ 100 L/ha
Seeding date:	April 27, 2020	May 29, 2020
Crop & Variety:	wheat variety strips	
Seeding rate:	75 kg/ha	100 kg/ha
Fertiliser:	75 kg/ha DAP	
Post Em Spray: June 26, 2020	Spray – 5 ha early sown wheat varieties in Q1. 25 g Paradigm + 470 ml MCPA LVE 570 g/L + 75 ml Dicamba 750 g/L + 0.5% Uptake Oil @ 85 L/ha	
Post Em Nitrogen spread: July 10, 2020	100 kg/ha Urea spread on Q1 (7.43ha) by Jim Maitland	
Post Em Spray: August 26, 2020	Spray – 3 ha late sown wheat varieties in Q1. 25 g Paradigm + 500 ml MCPA LVE 570 g/L + 200 g Pirimicarb + 500 ml Epoxiconazole + 0.5% Uptake Oil @ 85 L/ha Spray ~5 ha early sown wheat varieties in Q1. 200 g Pirimicarb + 500 ml Epoxiconazole	
Quarter 2 - 8 ha 2020 trial site		
Quarter 3 - 8 ha Oaten hay (2021 trial site & carpark)		
Spray:	May 27, 2020 2.0 L/ha Glyphosate 520 g/L + 100 ml/ha Striker + 2% AmmSulfate v/v + 0.4% LI700 v/v @100 L/ha	
Seeding date:	May 29, 2020	Crop & Variety: Tungoo oats (donated by Jim Maitland)
Seeding rate:	100 kg/ha	Fertiliser: 50 kg/ha DAP
Quarter 4 - (incl. east of Crop systems trial) 10 ha Scepter wheat		
Spray:	May 27, 2020 - 2 L/ha Glyphosate 520 g/L + 100 ml/ha Striker + 160 ml/ha Dicamba 750 + 3L/ha Prosulfocarb + 2% AmmSulfate v/v +0.4% LI700 v/v @ 100 L/ha	
Seeding date:	May 29, 2020	Crop & Variety: Scepter wheat Seeding rate: 100 kg/ha
Fertiliser:	70 kg/ha DAP	Post Em Nitrogen spread: August 10, 2020 70 kg/ha Urea spread
Post Em Spray:	August 26, 2020 25 g Paradigm + 500 ml MCPA LVE 570 g/L + 200 g Pirimicarb + 500 ml Epoxiconazole + 0.5% Uptake Oil @ 85 L/ha	

Quarter 1 – more information

Wheat variety strips were sown in Quarter 1 on April 27 (Figure 1). In addition, Scepter and a strip of Vixen was sown on May 29.

They were sown as a broad acre demonstration of a range of longer season wheat varieties better suited to earlier (April) sowing in terms of maturity and flowering time.

Early sown variety strips established well in adequate available soil moisture. The later sown Scepter experienced some moisture stress prior to August rain.

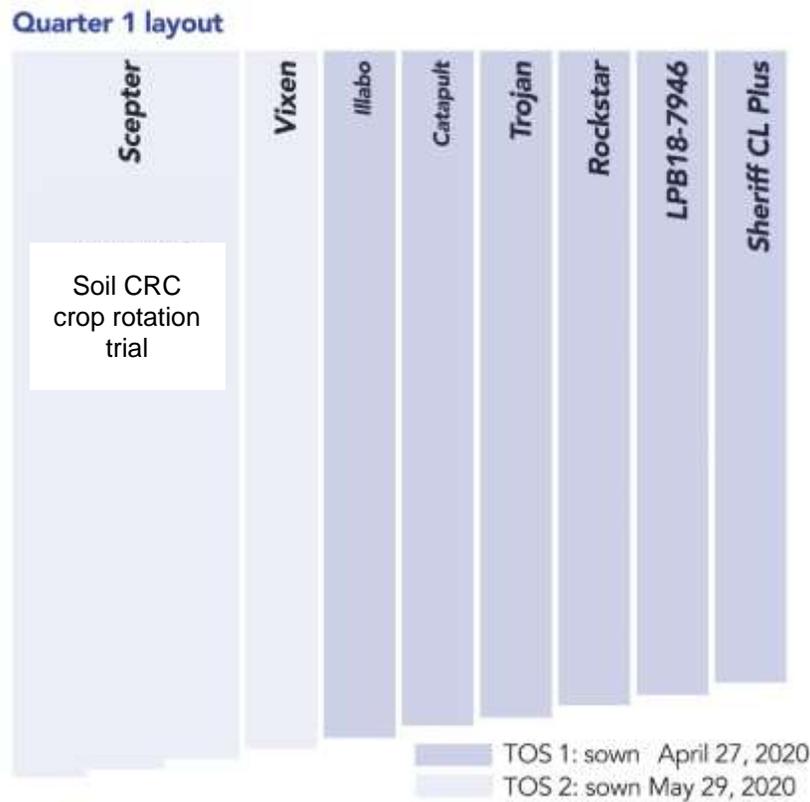


Figure 1. Wheat demonstration strips; varieties sown in 2020.

Thanks to seed company reps Josh Reichstein (Inter Grain), Dan Vater (AGT) and Col Edmondson (Pac-Seeds) for organising seed for the variety strips in Quarter 1.

HART BEAT - yield predictions through the growing season for 8 Mid-North sites

HART BEAT

Yield Prophet® simulations for 8 sites across the Mid-North of SA

Definitions | Site information

Hart | Spalding | Condowie
Kybunga | Farrell Flat | Pinery
Eudunda | Tarlee

Plus...
How you can access more
Hart research in 2020



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VIEW & SUBSCRIBE ON THE HART WEBSITE

The *HART BEAT* newsletter, first introduced in 2009, is an initiative of the Hart Field-Site Group.

It is aimed at providing farmers and agronomists with regular updates of current and predicted crop and soil conditions as a season progresses.

We believe it will assist in making informed choices on the need for additional nitrogen and fungicide applications.

The Yield Prophet® simulations featured are not a crystal ball but provide a realistic prediction of the available soil water and nitrogen status of your crop.

Current (and historical) editions are all available online now, for free:

www.hartfieldsite.org.au



Hart 2020



Sowing trials at the Hart field site



Prof Chris Preston presenting at our mini-event; Managing Weeds



New QR codes at every trial



Social distancing at the Hart Winter Walk

Hart 2020



Getting The Crop In seminar - just before the pandemic hit



Our 2020 trial site



Soil testing



The Hart team



N-Shield

SAFEGUARD YOUR INVESTMENT
& PROTECT YOUR BOTTOM LINE

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your investment.

