



CARING  
FOR  
OUR  
COUNTRY



# Hart Beat

Hart Field-Site Group Inc  
[www.hartfieldsite.org.au](http://www.hartfieldsite.org.au)

September 2013 Issue 25

## HART FIELD DAY HERE AGAIN !

The program for this year's Hart Field Day on **Tuesday, September 17**, has been released and is packed with quality speakers ready to present on a range of agronomy, variety, disease, weed and seeding information.

A rolling program of half hour segments will see more than **30 speakers** presenting **22 sessions**, with visitors able to tailor their own program of eight sessions for the day.

Lunch time guest speaker will be Primary Producers SA (PPSA) chairman and former State Premier **Rob Kerin** with an address titled '**Farming locally, competing globally**'.

Mr Kerin will speak about **global marketing opportunities**, an overview of the aims and structure of the **PPSA**, work being done in rebuilding the relationship with PIRSA and an agreement with Natural Resources Management in **restoring the balance between the environment and agricultural productivity**.

He will also speak about an exciting new '**digital platform**' being developed, and due to be launched in the next month, in collaboration with PPSA and PIRSA, bringing together a range of resources and forms in one, comprehensive website for primary producers.

The agronomics and economics of including a '**brown manure**' crop in a cropping system will be the feature of New South Wales speaker, farm business consultant **Robert Patterson's** presentation titled 'vetch varieties and brown manure'.

**Dr Gurjeet Gill** from the University of Adelaide will present sessions focussing on **crop**

**competition** and strategies to reduce the **impact of annual ryegrass**.

The University's **Dr Chris Preston** is no stranger to the Hart Field Day and will be back again this year, also looking at ryegrass and in particular a trial at the Hart field site on **clethodim resistant annual ryegrass**.

An expert in weed management issues, Dr Preston will address the trial results which are showing a number of the herbicide treatments applied at the Hart site this year are proving to have good control of annual ryegrass.

These sessions will be particularly relevant for growers experiencing significant difficulties with **group A resistant ryegrass**.

**Machinery replacement decisions** will be the hot topic in the Case-Rocky River Ag marquee, with Rural Directions consultant **Patrick Redden** providing a simple analysis to help make purchasing decisions a little easier.

Hear about **stubble and nutrient management** options for increased soil organic matter from **Harm van Rees** from Cropfacts, Victoria.

Nuffield Scholar **Stephan Ball** will share his experience of **disc seeders**, along with the University of Adelaide's **Sam Kleemann** whose work has been focussed on **disc seeders and pre-emergent herbicides**.

There will also be a wide range of other speakers focussing on **agronomy, variety, sowing and much more**, as well as numerous static displays.

For more **HART FIELD DAY** information visit: [www.hartfieldsite.org.au](http://www.hartfieldsite.org.au)

## Hart (sandy clay loam)

### The season so far

Annual rain to date: 359mm

GSR to date: 307mm

GSR decile: 8.0

Current predicted PAW: 105mm

PAWC: 206mm (currently 51% full)

### Crop growth

Variety: Mace wheat Sowing date: 1<sup>st</sup> May

Nitrogen fertiliser: 65 kg N/ha

Site information as of 4<sup>th</sup> September 2013

### Grain yield predictions

These estimates are based on a 50% probability

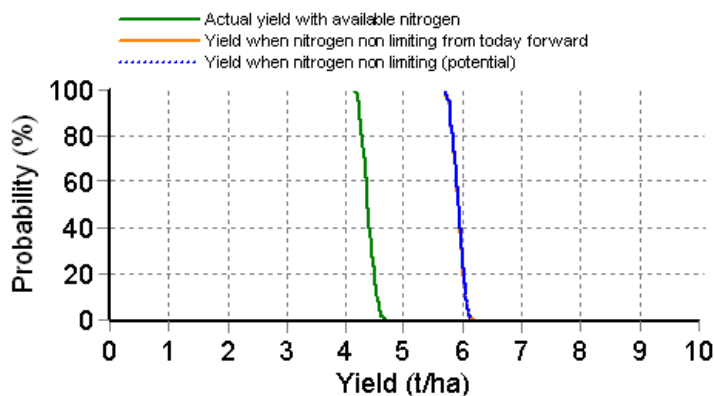
Yield t/ha	Sown 1 <sup>st</sup> May (see graph)	Change since last report	Sown 20 <sup>th</sup> May	Change since last report
Grain	5.2	0.0	5.2	-0.2

### French & Schultz grain yield estimate:

100% WUE: 5.2 t/ha, 80% WUE: 4.2 t/ha

This model assumes that there was 0mm stored moisture, 110mm of evaporation and decile 5 (64mm) rainfall for the rest of the season.

### Grain Yield Outcome



This graph shows the chance of reaching the corresponding yield given weather, soil conditions and agronomic inputs to date, and historical climate data (100yrs) to simulate remainder of the season.

## Pinery (silty clay loam)

### The season so far

Annual rain to date: 307mm

GSR to date: 280mm

GSR decile: 8.0

Current predicted PAW: 40mm

PAWC: 79mm (currently 51% full)

### Crop growth

Variety: Mace wheat Sowing date: 1<sup>st</sup> May

Nitrogen fertiliser: 65 kg N/ha

Site information as of 4<sup>th</sup> September 2013

### Grain yield predictions

These estimates are based on a 50% probability

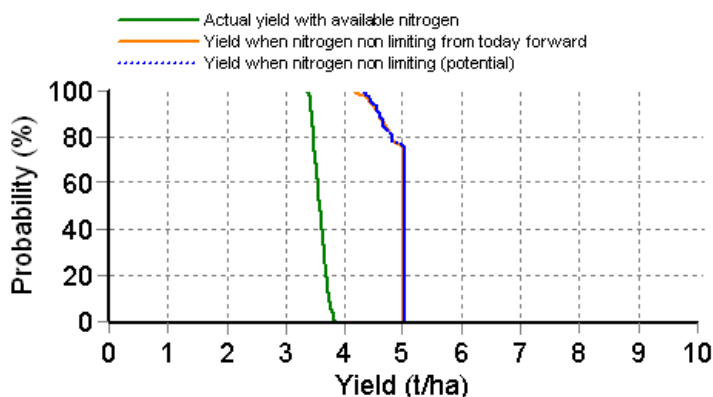
Yield t/ha	Sown 1 <sup>st</sup> May (see graph)	Change from last report	Sown 20 <sup>th</sup> May	Change since last report
Grain	4.3	0.0	3.6	-0.1

### French & Schultz grain yield estimate:

100% WUE: 4.7 t/ha, 80% WUE: 3.8 t/ha

This model assumes that there was 0mm stored moisture, 110mm of evaporation and decile 5 (67mm) rainfall for the rest of the season.

### Grain Yield Outcome



This graph shows the chance of reaching the corresponding yield given weather, soil conditions and agronomic inputs to date, and historical climate data (100yrs) to simulate remainder of the season.

## Kybunga (clay loam)

### The season so far

Annual rain to date: 353mm

GSR to date: 321mm

GSR decile: 9.0

Current predicted PAW: 110mm

PAWC: 262mm (currently 42% full)

### Crop growth

Variety: Mace wheat Sowing date: 1st May

Nitrogen fertiliser: 65 kg N/ha

Site information as of 4<sup>th</sup> September 2013

### Grain yield predictions

These estimates are based on a 50% probability

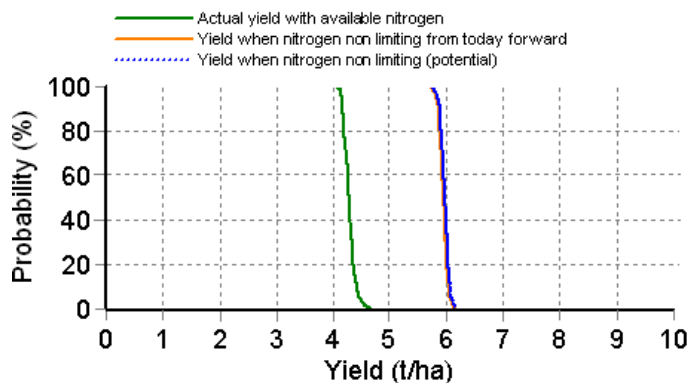
Yield t/ha	Sown 1 <sup>st</sup> May (see graph)	Change from last report	Sown 20 <sup>th</sup> May	Change since last report
Grain	5.2	0.0	5.2	-0.1

### French & Schultz grain yield estimate:

100% WUE: 6.1 t/ha, 80% WUE: 4.9 t/ha

This model assumes that there was 0mm stored moisture, 110mm of evaporation and decile 5 (94mm) rainfall for the rest of the season.

### Grain Yield Outcome



This graph shows the chance of reaching the corresponding yield given weather, soil conditions and agronomic inputs to date, and historical climate data (100yrs) to simulate remainder of the season.

# Hart Field Day Program

17th September 2013

Gates open 9am

Enquiries: Sandy Kimber 0427 423 154 [admin@hartfieldsite.org.au](mailto:admin@hartfieldsite.org.au)



## WELCOME & OPENING Justin Wundke, Hart chairman

*Choose your own program - each session lasts for 30 minutes*

Time	B	C	L	M	Q	R	T	V
10:00am	Canola varieties	Barley time of sowing & depth	Seed treatments	Ryegrass in breakcrops	Pasture varieties	Pulse varieties	Disc seeders & herbicides	Alternative fertilisers
11:00	Oat varieties	Plant growth regulators	Canola blackleg & retained seed	Crop competition & durum varieties	Pulse agronomy	Vetch varieties & brown manure	Herbicide tolerance	Stubble & organic matter
11:30	Barley time of sowing & depth	Wheat varieties	Seed treatments	Ryegrass in breakcrops	Pulse varieties	Soil pH mapper	Disc seeders & herbicides	
12:00	Revegetation & windbreaks	Canola varieties	Machinery finance	Barley varieties	Soil pit	Pulse agronomy	Alternative fertilisers	
12:30	<b>LUNCH</b> <i>includes address by special guest speaker ROB KERIN, chairman of Primary Producers SA &amp; former premier of South Australia</i>							
1:30	Barley time of sowing & depth	Canola blackleg & retained seed	Ryegrass in break crops	Wheat varieties	Vetch varieties & brown manure	Pasture varieties	Herbicide tolerance	Stubble & organic matter
2:00	Canola varieties	Oat varieties	Plant growth regulators	Barley varieties	Seed treatments	Crop competition & durum varieties	Pulse varieties	Disc seeders & herbicides
2:30	Canola blackleg & retained seed	Herbicide tolerance	Wheat varieties	Vetch varieties & brown manure	Pasture varieties	Soil pH mapper	Stubble & organic matter	
3:00	Machinery finance	Plant growth regulators	Barley varieties	Soil pit	Crop competition & durum varieties	Pulse agronomy	Alternative fertilisers	

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# TRIAL SESSION SPEAKERS

## **A. Revegetation & windbreaks**

Helen Weckert & Millie Nicholls,  
Mid North Grasslands Working Group

## **B. Canola varieties**

Andrew Ware, SARDI

## **C. Barley time of sowing & depth**

Kenton Porker, SARDI

## **D. Oats – hay & grain varieties**

Pamela Zwer, SARDI

## **E. Machinery Finance**

Patrick Redden, Rural Directions  
Kevin Quinn, CNH Capital

## **F. Plant growth regulators**

Jason Sabeeney, Syngenta  
Jeff Braun, Agrilink Consultants

## **G. Canola blackleg & retaining seed**

Trent Potter, Yeruga Crop Research

## **H. Barley varieties**

Jason Eglinton, University of Adelaide

## **I. Improved crop competition & durum varieties**

Gurjeet Gill, University of Adelaide  
Mark Hill, SA Durum Growers Assoc,  
farmer  
John Green, SA Durum Growers Assoc,  
farmer

## **J. Wheat varieties**

Rob Wheeler, SARDI

## **K. Soil pit**

Brian Hughes, Rural Solutions SA  
James Hall, Soil Science Australia

## **L. Seed treatments for root disease**

Paul Bogacki, SARDI

## **M. Controlling ryegrass in break crops**

Chis Preston, University of Adelaide

## **N. Pulse agronomy & disease**

Michael Lines, SARDI  
Jenny Davidson, SARDI

## **O. Vetch varieties & brown manure**

Stuart Nagel, SARDI  
Rob Patterson, Rural Management  
Strategies Pty Ltd

## **P. Legume & oilseed herbicide tolerance**

Andre Sabeeney, CropCare  
Peter Cousins, Peter Cousins Consulting

## **Q. Pasture varieties**

Jake Howie, SARDI

## **R. Pulse varieties**

Larn McMurray, SARDI  
Wayne Hawthorne, Pulse Australia

## **S. Soil pH mapping**

Michael Wells, Precision Cropping  
Technologies

## **T. Disc seeders & pre-emergent herbicides**

Stephen Ball, farmer  
Sam Kleeman, University of Adelaide

## **U. Stubble, nutrients & organic matter**

Harm van Rees, Cropfacts

## **V. New fertiliser alternatives & better nitrogen use**

Greg Butler, SANTFA  
Hugh Mayo, Dow AgroSciences



Hart Field Day  
September 17th  
2013

## Spalding (red brown earth)

### The season so far

Annual rain to date: 338mm

GSR to date: 299mm

GSR decile: 8.0

Current predicted PAW: 102mm

PAWC: 143mm (currently 71% full)

### Crop growth

Variety: Mace wheat Sowing date: 1<sup>st</sup> May

Nitrogen fertiliser: 65 kg N/ha

Site information as of 4<sup>th</sup> September 2013

### Grain yield predictions

These estimates are based on a 50% probability

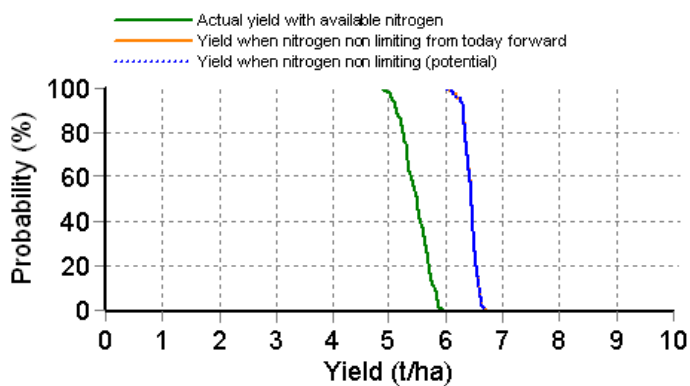
Yield t/ha	Sown 1 <sup>st</sup> May (see graph)	Change from last report	Sown 20 <sup>th</sup> May	Change since last report
Grain	5.9	-0.1	5.7	0.0

### French & Schultz grain yield estimate:

100% WUE: 5.4 t/ha, 80% WUE: 4.3 t/ha

This model assumes that there was 0mm stored moisture, 110mm of evaporation and decile 5 (81mm) rainfall for the rest of the season.

### Grain Yield Outcome



This graph shows the chance of reaching the corresponding yield given weather, soil conditions and agronomic inputs to date, and historical climate data (100yrs) to simulate remainder of the season.

## Farrell Flat (red clay loam)

### The season so far

Annual rain to date: 371mm

GSR to date: 332mm

GSR decile: 7.0

Current predicted PAW: 138mm

PAWC: 172mm (currently 80% full)

### Crop growth

Variety: Mace wheat Sowing date: 1<sup>th</sup> May

Nitrogen fertiliser: 65 kg N/ha

Site information as of 4<sup>th</sup> September 2013

### Grain yield predictions

These estimates are based on a 50% probability

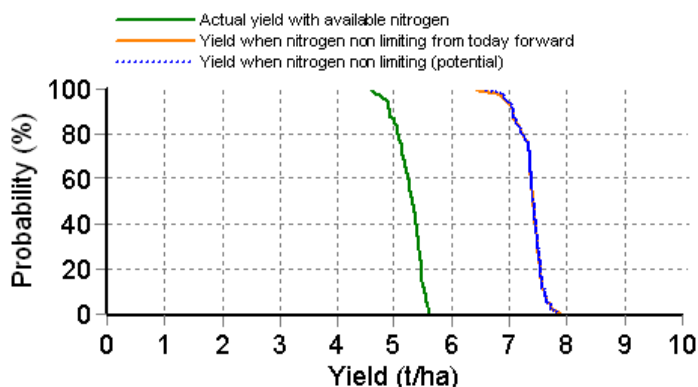
Yield t/ha	Sown 1 <sup>st</sup> May (see graph)	Change from last report	Sown 20 <sup>th</sup> May	Change since last report
Grain	6.4	-0.1	6.3	0.0

### French & Schultz grain yield estimate:

100% WUE: 6.3 t/ha, 80% WUE: 5.0 t/ha

This model assumes that there was 0mm stored moisture, 110mm of evaporation and decile 5 (91mm) rainfall for the rest of the season.

### Grain Yield Outcome



This graph shows the chance of reaching the corresponding yield given weather, soil conditions and agronomic inputs to date, and historical climate data (100yrs) to simulate remainder of the season.

## Tarlee (clay loam)

### The season so far

Annual rain to date: 330mm

GSR to date: 296mm

GSR decile: 7.0

Current predicted PAW: 75mm

PAWC: 113mm (currently 66% full)

### Crop growth

Variety: Mace wheat Sowing date: 1<sup>st</sup> May

Nitrogen fertiliser: 65 kg N/ha

Site information as of 4<sup>th</sup> September 2013

### Grain yield predictions

These estimates are based on a 50% probability

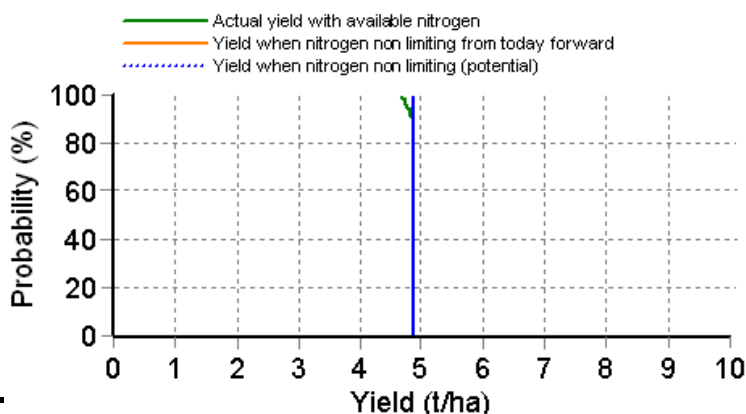
Yield t/ha	Sown 1 <sup>st</sup> May (see graph)	Change from last report	Sown 20 <sup>th</sup> May	Change since last report
Grain	4.9	-0.1	5.3	0.1

### French & Schultz grain yield estimate:

100% WUE: 5.5 t/ha, 80% WUE: 4.4 t/ha

This model assumes that there was 0mm stored moisture, 110mm of evaporation and decile 5 (91mm) rainfall for the rest of the season.

### Grain Yield Outcome



This graph shows the chance of reaching the corresponding yield given weather, soil conditions and agronomic inputs to date, and historical climate data (100yrs) to simulate remainder of the season.

# **ROB KERIN**

## **special guest speaker at Hart Field Day**

### **SOUTH AUSSIE FARMERS NEED TO THINK GLOBALLY**

South Australian farmers are in a good position to capitalise on global marketing opportunities if the right value-added investments can be offered to investors.

That is according to Primary Producers SA (PPSA) chairman and former State Premier Rob Kerin, who will be guest speaker at the annual Hart Field Day on Tuesday, 17 September.

“We’re looking at a magnificent season to boost South Australian agriculture, but longer term we need to market better and make the most of the Asian, particularly the Chinese, opportunities,” Mr Kerin says.

“We need to get smarter in packaging investments for Asia, and that’s where government has a role to play in opening doors and matching investment with further investment opportunities.”

Mr Kerin has been chairman of the PPSA since May 1 this year, heading up the organisation which has replaced the South Australian Farmers Federation (SAFF) as the State’s peak farmer group.

His address at the Hart Field Day will be titled ‘Farming locally, competing globally’.

He will speak about the structure and aims of PPSA, including work being done on rebuilding the relationship with PIRSA in setting priorities and having industry input into its direction.

Mr Kerin will also speak about ‘Changing The Balance’, an agreement between PPSA, the Department of Environment Water and Natural Resources, PIRSA and Natural Resources Management (NRM), which looks at “getting the balance” right for the NRM in terms of agricultural productivity.

He will also speak about an exciting new ‘digital platform’ being developed, and due to be launched in the next month, in collaboration with PPSA and PIRSA.

The platform aims to bring together government, commodity groups and key agricultural stakeholders to make information and forms available on one, comprehensive site.

The one-stop-shop is set to include information such as the weather, commodity prices, exchange

rates, government forms and payments, and information from the likes of the Country Fire Service, NRM and commodity groups.

Mr Kerin says he is looking forward to speaking at the Hart Field Day, where he remembers attending in the “early days when they were shifted around the Jaeschke property”.

Hart Field-Site Group chairman Justin Wundke says he is also thrilled to have Mr Kerin as the lunch time guest speaker at this year’s event.

“We’re excited to have Rob Kerin as our guest for the 31st Hart Field Day and are looking forward to the insight he will give us into some of the current issues facing South Australian farmers and work being done by the PPSA,” Mr Wundke says.

“The Hart committee have been working hard to get the trial site ready for the field day. It represents a great opportunity to come along and hear the latest research and hot topics to capitalise on the above average season we have had so far as well as being a great way to see any potential new variety releases in the paddock.”

## **HART FIELD DAY**

**September 17<sup>th</sup> 2013**

**Gates open 9am • Official opening 10am • First session starts 10:30am sharp**