Hart Beat

Hart Field-Site Group Inc
www.hartfieldsite.org.au

15th September 2011 Issue 15

HART FIELD DAY HERE AGAIN!

With more than 30 nationally and internationally renowned cropping specialists heading to the Hart Field Day on Thursday, September 22, farmers will have an opportunity to hear and see first-hand the latest in varieties, disease control, agronomy and markets.

Among some of the high profile speakers at this year's event is New Zealander, Foundation for Arable Research research coordinator, Nick Poole, who has undertaken some recent research on stem rust in wheat, a topic that is likely to be particularly pertinent in South Australia this growing season.

New South Wales Department of Primary Industries senior research agronomist Dr Neil Fettell will speak about making the most of soil moisture, with time of sowing, sowing rates, row spacing and nitrogen use among some of the issues associated with this topic.

Pinery farmer, plant breeder and agricultural consultant Dr Andrew (Andy) Barr will be the lunch time guest speaker.

Andy brings to Hart a wealth of experience including 27 years as a plant breeder during which time he released and contributed to the development of more than 25 varieties of oats, barley and wheat.

Andy's lunch time address will focus on national and international agricultural research and development, global trade in agricultural commodities and the future of farming in SA.

A huge range of other trials and speakers complete the program, with everything from a historic barley variety demonstration, a new group B tolerant crop trial and phosphorus trial and all the latest in varieties of wheat, durum, barley, oats, triticale, canola, pulses, pastures and weed control.

Hart Field-Site Group trials manager Peter Hooper said the variety and access to renowned leaders in grains research as well as other growers who have first-hand experience is what makes the Hart Field Day one of the leading agronomy field days in Australia.

"We provide such an independent opportunity for growers to view a really big range of varieties, fertiliser and herbicide options and trial results," he said.

"It is leading edge information and there's no pressure to buy anything, it's a neutral environment. The access to researchers and speakers of the calibre we have at Hart and the opportunity to ask questions and chat informally with these experts is something you don't get anywhere else. There is such a wide range on offer, there's no excuse that any farmer wouldn't be able to pick up some new information at Hart, it's really a one stop shop."

HART FIELD DAY

Thursday, 22nd September 2011

Opening address 10am
First session begins 10:30am
Last session finishes 3:30pm

Lunch & refreshments available
Bar facilities from 4pm

Further details:
www.hartfieldsite.org.au

Hart

Site information as of 15th September 2011

The season so far

Annual rain to date: 297mm*(28mm since last report)*
GSR to date: 170mm
GSR decile: 2.0
Current predicted PAW: 10mm

Crop growth

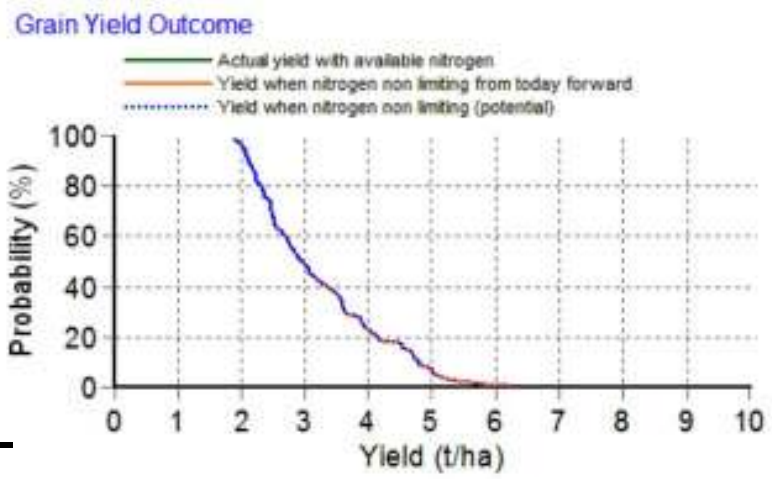
Variety: Gladius **Sowing date:** 30th May 2011
Nitrogen fertiliser: 51kgN/ha

Grain yield predictions

Yield prophet estimate: (Date of report15/09/2011)
These estimates are based on a 50% probability

Yield t/ha	Sown 30th May (see graph)	Change from last report	Sown 10th June	Change from last report
Grain	2.9	-0.8	2.6	-0.8

French & Schultz grain yield estimate:
100% WUE: 3.4 t/ha, 80% WUE: 2.7 t/ha
This model assumes that there is 38mm stored moisture, 110mm of evaporation and decile 5 (71mm) rainfall for the rest of the season.



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.

Condowie

Site information as of 15th September 2011

The season so far

Annual rain to date: 307mm*(32mm since last report)*
GSR to date: 179mm
GSR decile: 4.5
Current predicted PAW: 35mm

Crop growth

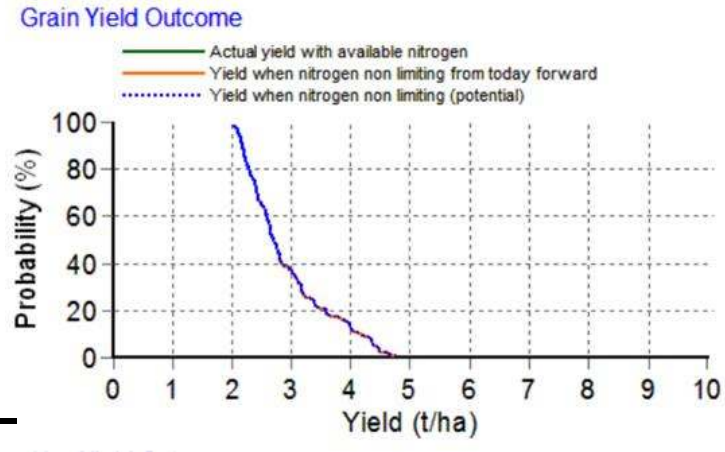
Variety: Gladius **Sowing date:** 21st May 2011
Nitrogen fertiliser: 8kgN/ha

Grain yield predictions

Yield prophet estimate: (Date of report 15/09/2011)
These estimates are based on a 50% probability

Yield t/ha	Sown 21st May (see graph)	Change from last report	Sown 5th June	Change from last report
Grain	2.7	-0.3	2.4	-0.1

French & Schultz grain yield estimate:
100% WUE: 3.4 t/ha, 80% WUE: 2.7 t/ha
This model assumes that there is 38mm stored moisture, 110mm of evaporation and decile 5 (61mm) rainfall for the rest of the season.



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

Site information as of 15th September 2011

The season so far

Annual rain to date: 322mm*(34mm since last report)*
GSR to date: 188mm
GSR decile: 3.0
Current predicted PAW: 61mm

Crop growth

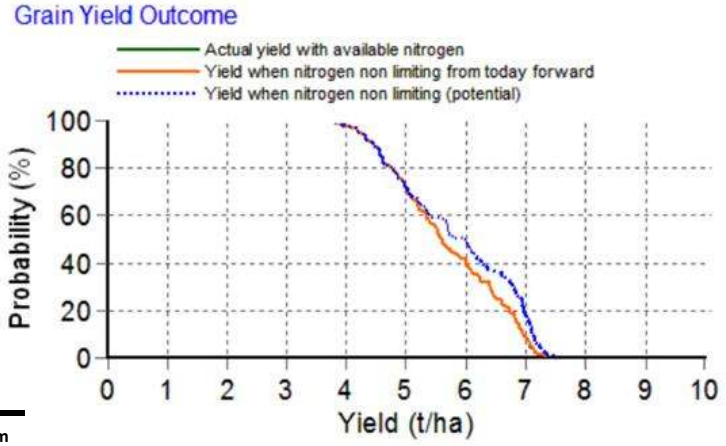
Variety: Gladius **Sowing date:** 15th May 2011
Nitrogen fertiliser: 60kgN/ha

Grain yield predictions

Yield prophet estimate: (Date of report 15/09/2011)
These estimates are based on a 50% probability

Yield t/ha	Sown 15th May (see graph)	Change from last report	Sown 5th June	Change from last report
Grain	5.5	-1.0	4.6	-0.8

French & Schultz grain yield estimate:
100% WUE: 3.7 t/ha, 80% WUE: 3.0 t/ha
This model assumes that there is 40mm stored moisture, 110mm of evaporation and decile 5 (67mm) rainfall for the rest of the season.



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

22nd September 2011

Gates open at 9am

Enquiries: Sandy Kimber 0427 423 154 admin@hartfieldsite.org.au

10:00am	**WELCOME & OPENING** Matt Dare, Hart Chairman							
	Choose your own program. Each session last for 30 minutes							
10:30	B Barley agronomy	K Phosphorus fertilisers	N Controlling wild oats	M Triticale varieties	Q Canola varieties	T Pulse varieties & quality	U Herbicide tolerance	W Variable rate application
11:00	F Historic barley varieties	H Durum varieties & agronomy	J Pre-emergent herbicides	L Managing crop growth	P Oat varieties	R Pulse agronomy & disease	S Making moisture count	V Group B tolerant crops
11:30	C Flexicoil seeders	D Barley varieties	E Cereal disease management	K Phosphorus fertilisers	O Ryegrass in break crops	Q Canola varieties	U Herbicide tolerance	
12:00	A - shed Barley malting & brewing	G Wheat varieties	I Pasture varieties	L Managing crop growth	N Controlling wild oats	S Making moisture count	W Variable rate application	
12:30	**LUNCH** includes address by special guest speaker ANDY BARR, plant breeder, farmer, agricultural consultant							
1:30	D Barley varieties	E Cereal disease management	F Historic barley varieties	H Durum varieties & agronomy	J Pre-emergent herbicides	M Triticale varieties	T Pulse varieties & quality	U Herbicide tolerance
2:00	B Barley agronomy	G Wheat varieties	I Pasture varieties	L Managing crop growth	O Ryegrass in break crops	R Pulse agronomy & disease	S Making moisture count	V Group B tolerant crops
2:30	C Flexicoil seeders	D Barley varieties	H Durum varieties & agronomy	K Phosphorus fertilisers	N Controlling wild oats	P Oat varieties	Q Canola varieties	T Pulse varieties & quality
3:00	A - shed Barley malting & brewing	B Barley agronomy	E Cereal disease management	G Wheat varieties	I Pasture varieties	J Pre-emergent herbicides	R Pulse agronomy & disease	W Variable rate application

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HART FIELD DAY 2011
Speakers

A Barley marketing, brewing & malting
Nick Sterenberg, Coopers
Ken Ogushi, Sapporo Brewery

B Barley agronomy
Kenton Porker, SARDI

C Flexicoil seeders
Gilbert Gay, Flexicoil

D Barley varieties
Stewart Coventry, SARDI
Reg Lance, Intergrain

E Cereal disease management
Nick Poole, FAR
Hugh Wallwork, SARDI

F Historic barley varieties
Andy Barr, Plant breeder, farmer
Brian Rossnagel, Uni of Saskatchewan, Canada

G Wheat varieties
Rob Wheeler, SARDI

H Durum varieties & agronomy
Jason Able, Uni of Adel
John Green, Durum Growers Association

I Pasture varieties
Jake Howie, SARDI
Andrew Lake, Pristine Forage Technologies

J Pre-emergent ryegrass control
Chris Preston, Uni of Adel

K Phosphorus fertilisers
Therese McBeath, CSIRO
Sean Mason, Uni of Adel

L Managing crop growth & water use
Neil Fettell, NSW Dept of Ag

M Triticale varieties
Britt Kalmeier, AGT

N Controlling wild oats
Sam Kleeman, Uni of Adel

O Controlling ryegrass in break crops
Andre Sabeeney, Crop Care
Peter Hooper, Hart

P Oat varieties
Pamela Zwer, SARDI

Q Canola varieties
Trent Potter, SARDI

R Pulse agronomy & disease
Michael Lines, SARDI
Jenny Davidson, SARDI

S Making moisture count & historical wheat varieties
Victor Sadras, SARDI
Chris Lawson, SARDI

T Pulse varieties & quality
Wayne Hawthorne, Pulse Australia
Peter Semmler, AgriSemm

U Oilseed & legume herbicide tolerance
Grant Roberts, Viterra
Peter Baker, Viterra

V Group B tolerant crops
Sam Holmes, Consultant
Peter Langdon, Crop Care

W Variable rate application
Sam Trengove, SPAA
Rigas Karamanos, Viterra

Spalding

Site information as of 15th September 2011

The season so far

Annual rain to date: 327mm*(30mm since last report)*
GSR to date: 186mm
GSR decile: 3.0
Current predicted PAW: 27mm

Crop growth

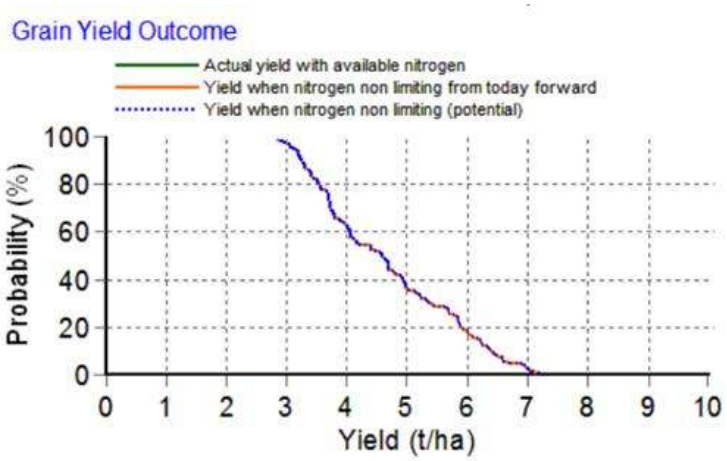
Variety: Gladius **Sowing date:** 19th May 2011
Nitrogen fertiliser: 48kgN/ha

Grain yield predictions

Yield prophet estimate: (Date of report 15/09/2011)
These estimates are based on a 50% probability

Yield t/ha	Sown 19th May (see graph)	Change from last report	Sown 5th June	Change from last report
Grain	4.7	-0.8	3.9	-0.6

French & Schultz grain yield estimate:
100% WUE: 3.9 t/ha, 80% WUE: 3.2 t/ha
This model assumes that there is 42mm stored moisture, 110mm of evaporation and decile 5 (79mm) rainfall for the rest of the season.



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

Site information as of 15th September 2011

The season so far

Annual rain to date: 297mm*(30mm since last report)*
GSR to date: 184mm
GSR decile: 1.2
Current predicted PAW: 73mm

Crop growth

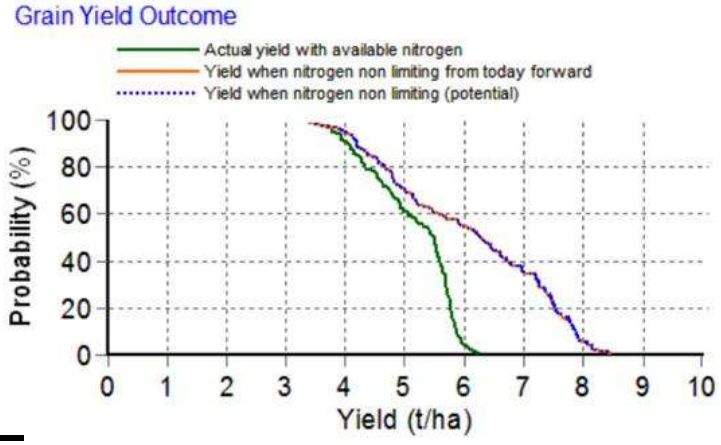
Variety: Gladius **Sowing date:** 15th May 2011
Nitrogen fertiliser: 70kgN/ha

Grain yield predictions

Yield prophet estimate: (Date of report 15/09/2011)
These estimates are based on a 50% probability

Yield t/ha	Sown 15th May (see graph)	Change from last report	Sown 5th June	Change from last report
Grain	5.5	-0.1	4.9	-0.7

French & Schultz grain yield estimate:
100% WUE: 4.1 t/ha, 80% WUE: 3.3 t/ha
This model assumes that there is 34mm of soil moisture, 110mm of evaporation and decile 5 (97mm) rainfall for the rest of the season.



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

Site information as of 15th September 2011

The season so far

Annual rain to date: 340mm*(51mm since last report)*
GSR to date: 220mm
GSR decile: 1.2
Current predicted PAW: 69mm

Crop growth

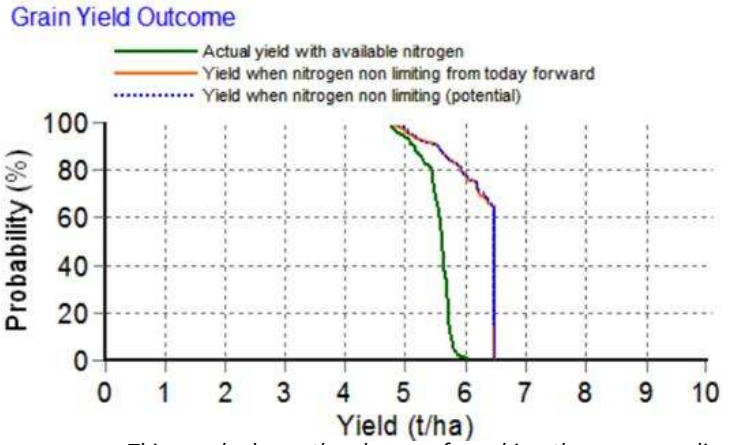
Variety: Scout **Sowing date:** 13th May 2011
Nitrogen fertiliser: 70kgN/ha

Grain yield predictions

Yield prophet estimate: (Date of report 15/09/2011)
These estimates are based on a 50% probability

Yield t/ha	Sown 13th May (see graph)	Change from last report	Sown 5th June	Change from last report
Grain	5.7	+0.6	5.2	+1.0

French & Schultz grain yield estimate:
100% WUE: 4.9 t/ha, 80% WUE: 3.9 t/ha
This model assumes that there is 41mm stored moisture, 110mm of evaporation and decile 5 (94mm) rainfall for the rest of the season.



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 Beat

Government of South Australia
Northern and Yorke Natural Resources Management Board

GRDC Grains Research & Development Corporation

Spray Drift Control Sub-committee

Spray Drift Control Workshop

'half a day or lose the spray'

A half day workshop to update growers, contractors and agronomists on the risks of spray drift onto vineyards, the potential for inversion layers and how to avoid them.

Speakers

Bill Gordon
Bill Gordon Consulting Pty Ltd
Spray application and practices to stop spray drift.

Graeme Tepper
Consultant and facilitator in weather education
The role of inversions in spray drift.

Choose between from the following sessions:

Location	Venue	Date	Time
Balaklava	Sports Club	3rd October (Mon)	2:00pm
Hart	Hart Field Site	4th October (Tue)	9:00am
Hart	Hart Field Site	4th October (Tue)	1:30pm
Hilltown	Hilltown Hall	5th October (Wed)	9:00am
Manoora	Manoora Club Rooms	5th October (Wed)	2:00pm

Presented free of charge

RSVP ***for Hart workshops only: Friday 30th September***
Sandy Kimber | HART SECRETARY | 0427 423 154 | admin@hartfieldsite.org.au

A combined industry awareness and education initiative to reduce the impact of off-target herbicide damage

Supported by
Clare Spray Drift Committee, GRDC, Biosecurity SA, Clare Region Wine Grape Growers Association,Hart Field-Site Group and the Mid North High Rainfall Zone group.

Clare Region Winegrape Growers Association

DIARY DATES

HART FIELD DAY
Thursday 22nd September
Spring Twilight Walk
Tuesday 18th October

2012
GETTING THE CROP IN
To be advised
WINTER WALK
Tuesday 24th July
HART FIELD DAY
Tuesday 18th September
Spring Twilight Walk
Tuesday 16th October

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Rainfall and water soil characteristics for WUE sites

Site	Average annual rainfall (mm)	Soil type	Pre-sowing soil moisture (0-90cm)(mm)	Pre-sowing soil nitrogen (0-90cm) (kg N/ha)	Plant Available Water Capacity (mm)
Condowie	350	Sandy loam	24	241	127
Hart	400	Sandy clay loam	26	189	201
Spalding	430	Red brown earth	51	265	150
Tarlee	470	Clay loam over clay on rock	26	100	163
Kybunga	428	Friable clay loam	85	185	263
Farrell Flat	474	Red clay loam over clay	64	123	173

HART FIELD-SITE GROUP INC – Contact information

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