



Hart Beat

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

6th September, 2012 Issue 20

BIG PROGRAM FOR HART FIELD DAY

The annual Hart Field Day will be held on Tuesday, 18 September, and with more than 30 speakers coming from around the country to present, it will be a one-stop-shop for the latest information on agronomy, varieties, disease and weed control and seeding innovation.

A rolling program of half hour sessions enables visitors to tailor their own program for the day, choosing eight sessions to attend from more than 20 session options.

A highlight of this year's event will be the opportunity for growers from around the Hart district to volunteer to try out the new Harrington Seed Destructor (HSD) on-farm during the upcoming harvest.

Up to 20 farmers will be given the opportunity to have the weed seed "destructor" operating, free of charge, on their property for two days during harvest.

While the first commercial HSD machines are still being manufactured, it is anticipated that a HSD prototype will be on display at the field day.

University of Western Australia research associate professor Dr Michael Walsh will present at the Hart Field Day about this exciting innovation in harvest weed seed control.

"The HSD consistently destroys 90-95 per cent of annual ryegrass, wild radish, wild oats and brome grass seed present in the chaff fraction," he says.

Bevan Wilson from De Bruin Engineering, Mount Gambier, will be on hand to answer any queries about the commercialisation of the HSD.

Also joining Dr Walsh at the Hart Field Day will be WA farmer, and developer of the revolutionary new conveyor belt system for chaff carts, Lance Turner.

Dr Walsh says Lance's innovative new delivery system for chaff carts had created significant interest in WA, and was shown to overcome issues with extended chaff burn time and fire risk.

Clare-based Dr Allan Mayfield will be the lunchtime guest speaker at the event. Having been involved in the Hart Field Day almost since its inception, he has seen the event evolve over the last 30 years.

Coupled with his extensive experience as an agronomist and agricultural consultant, Allan will



provide an engaging lunch-time presentation.

Among other sessions on offer are the control of ryegrass in break crops, especially clethodim resistance; group B tolerant crops and brome grass; snail control; canola agronomy and the management of blackleg and the strategic use of fungicides as well as canola harvest management including harvest timing and direct heading.

Nigel Wilhelm will speak on phosphorus fertilisers and San Jolly will present on pasture production and nutrition, including feed quality.

Exciting new technology including in-furrow liquid injection demonstrations and the SA No-Till Farmers Association's Water-Jet system will be on show.

There will also be speakers addressing a wide range of other agronomy, variety, herbicide and growth regulant information.

There will also be static displays from Rocky River Ag Services and several other groups.

Gates will open at 9am with the official opening at 10am. The first session will begin at 10.30am sharp.

Admission is \$30 (students \$5), with entry entitling visitors to a bronze membership to the Hart Field-Site Group and a copy of the comprehensive Hart Field Day guide. Membership upgrades are available on the day (credit card facilities available).

Full catering is available throughout the day (cash sales only) and a refreshment tent will operate after the event.

For more information visit:

www.hartfieldsite.org.au

••• FULL HART FIELD DAY PROGRAM INSIDE THIS EDITION OF HART BEAT •••

Hart

The season so far

Annual rain to date: 210mm (17mm since last report)

GSR to date: 131mm

GSR decile: 1 (incorrect in last newsletter)

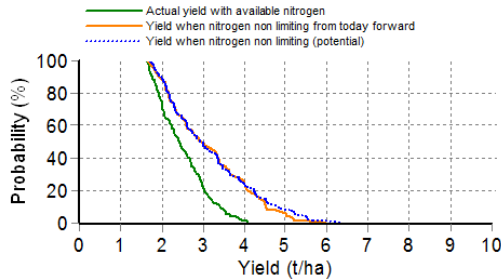
Current predicted PAW: 41mm

Crop growth

Variety: Gladius Sowing date: 30th May

Nitrogen fertiliser: 44kgN/ha

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.

Site information as of 6th September 2012

Grain & hay yield predictions

Yield prophet estimate: (Date of report 6/9/2012)

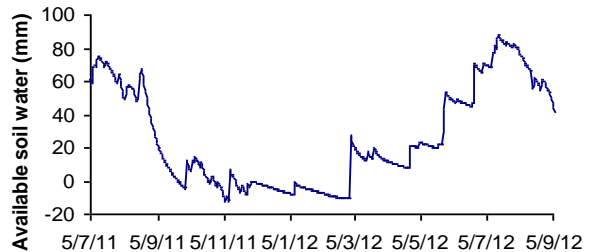
These estimates are based on a 50% probability

| Yield t/ha | Sown 30 th May (see graph) | Change from last report | Sown 10 th June | Change from last report |
|------------|---------------------------------------|-------------------------|----------------------------|-------------------------|
| Grain | 2.7 | -0.3 | 2.4 | -0.4 |

French & Schultz grain yield estimate:

100% WUE: 2.2t/ha, 80% WUE: 1.7t/ha

This model assumes that there is 26mm of stored moisture, 110mm of evaporation and decile 5 (62mm) rainfall for the remainder of the season.



Condowie

The season so far

Annual rain to date: 231mm (21mm since last report)

GSR to date: 145mm

GSR decile: 3.0

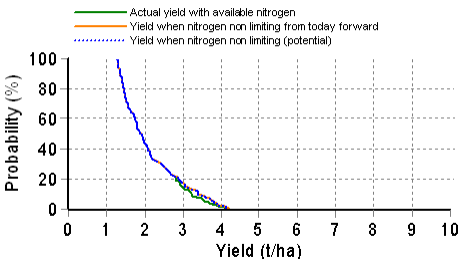
Current predicted PAW: 10mm

Crop growth

Variety: Gladius Sowing date: 18th May

Nitrogen fertiliser: 42kgN/ha

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.

Site information as of 6th September 2012

Grain & hay yield predictions

Yield prophet estimate: (Date of report 6/9/2012)

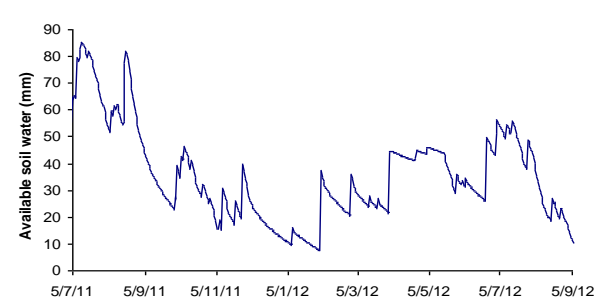
These estimates are based on a 50% probability

| Yield t/ha | Sown 18 th May (see graph) | Change from last report | Sown 5 th June | Change from last report |
|------------|---------------------------------------|-------------------------|---------------------------|-------------------------|
| Grain | 1.8 | -0.4 | 1.6 | -0.1 |

French & Schultz grain yield estimate:

100% WUE: 2.0t/ha, 80% WUE: 1.6t/ha

This model assumes that there is 7mm stored moisture, 110mm of evaporation and decile 5 (56mm) rainfall for the remainder of the season.



Kybunga

The season so far

Annual rain to date: 293mm (34mm since last report)

GSR to date: 206mm

GSR decile: 4

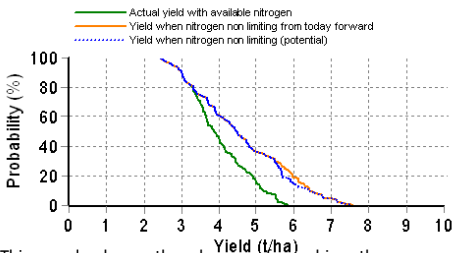
Current predicted PAW: 56mm

Crop growth

Variety: Gladius Sowing date: 17th May

Nitrogen fertiliser: 30kgN/ha

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.

Site information as of 6th September 2012

Grain & hay yield predictions

Yield prophet estimate: (Date of report 6/9/2012)

These estimates are based on a 50% probability

| Yield t/ha | Sown 17 th May (see graph) | Change from last report | Sown 5 th June | Change from last report |
|------------|---------------------------------------|-------------------------|---------------------------|-------------------------|
| Grain | 4.3 | +0.1 | 3.5 | 0.0 |

French & Schultz grain yield estimate:

100% WUE: 4.3t/ha, 80% WUE: 3.5t/ha

This model assumes that there is 14mm stored moisture, 110mm of evaporation and decile 5 (103mm) rainfall for the remainder of the season.



Hart Field Day Program

18th September 2012

Gates open 9am

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



Time

WELCOME & OPENING Matt Dare, Hart Chairman

10:00am

Choose your own program - each session lasts for 30 minutes

| | | | | | | | | |
|-------|--------------------------------|---------------------------------|------------------------------|------------------------------|-------------------------------|---------------------------------|---------------------------------|---------------------------------------|
| 10:30 | B Barley nitrogen | H Phosphorus fertilisers | G Ryegrass in break crops | K Canola varieties | N Herbicide tolerance | P In-furrow liquid additions | Q Pulse varieties | U Variable rate application |
| 11:00 | D Pasture production | E Durum varieties & agronomy | J Pre-emergent herbicides | L Canola agronomy | R Pulse agronomy & disease | S Group B tolerance & brome | V Harvest weed management | W - shed Canola harvest management |
| 11:30 | B Barley nitrogen | C Soil pit | G Ryegrass in break crops | I Wheat varieties | M Managing crop growth | N Herbicide tolerance | P In-furrow liquid additions | T Cropping systems & water jet |
| 12:00 | A - shed Controlling snails | F Barley varieties | H Phosphorus fertilisers | J Pre-emergent herbicides | K Canola varieties | O Oat varieties | Q Pulse varieties | V Harvest weed management |

12:30 LUNCH includes address by special guest speaker **DR ALLAN MAYFIELD**, former Hart Board member, consultant and GRDC Southern Panel member

| | | | | | | | | |
|------|---------------------------------|-------------------------|------------------------------|------------------------------|---------------------------------|--------------------------------|-----------------------------------|---------------------------------------|
| 1:30 | B Barley nitrogen | D Pasture production | G Ryegrass in break crops | I Wheat varieties | L Canola agronomy | M Managing crop growth | R Pulse agronomy & disease | U Variable rate application |
| 2:00 | C Soil pit | F Barley varieties | H Phosphorus fertilisers | J Pre-emergent herbicides | P In-furrow liquid additions | S Group B tolerance & brome | T Cropping systems & water jet | W - shed Canola harvest management |
| 2:30 | E Durum varieties & agronomy | I Wheat varieties | K Canola varieties | N Herbicide tolerance | O Oat varieties | Q Pulse varieties | U Variable rate application | V Harvest weed management |
| 3:00 | A - shed Controlling snails | D Pasture production | F Barley varieties | L Canola agronomy | M Managing crop growth | R Pulse agronomy & disease | S Group B tolerance & brome | T Cropping systems & water jet |

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Field Program – Speakers

A Controlling snails

Michael Richards, Ag Ex N&Y Regional
Landcare Facilitator
Mark Bennett, Farmer

B Barley nitrogen & sowing depth

Kenton Porker, SARDI

C Soil pit

Andrew Harding, Rural Solutions SA
Rebecca Tonkin, Rural Solutions SA

D Pasture production

San Jolly, Productive Nutrition

E Durum varieties & agronomy

Michael Quinn, Australian Grain
Technologies
Mark Hill, Durum Grower's Association
of SA

F Barley varieties

Jason Eglinton, University of Adelaide

G Controlling ryegrass in break crops

Sam Kleemann, University of Adelaide

H Phosphorus fertilisers

Nigel Wilhelm, SARDI

I Wheat varieties

Rob Wheeler, SARDI

J Pre-emergent ryegrass control

Peter Boutsalis, University of Adelaide

K Canola varieties

Trent Potter, SARDI

L Canola agronomy

Angela Van De Wouw, University of
Melbourne

M Managing crop growth

Jason Sabeeney, Syngenta
Jeff Braun, Agrilink Consultants

N Oilseed & legume herbicide tolerance

Sam Holmes, Holmes Farm Consulting
Patrick Redden, Rural Directions

O Oat varieties

Pamela Zwer, SARDI

P In-furrow liquid additions

Peter Burgess, Liquid Systems
Paul Lush, Farmer

Q Pulse varieties

Wayne Hawthorne, Pulse Australia
Larn McMurray, SARDI

R Pulse agronomy & disease

Jason Brand, Department of Primary
Industries, Vic.
Jenny Davidson, SARDI

S Group B tolerance & brome

Andre Sabeeney, Crop Care
Michael Zerner, University of Adelaide

T Cropping systems & water-jet

Greg Butler, SANTFA

U Variable rate application

Sam Trengove, SPAA
Michael Wells, Precision Cropping
Technologies

V Managing weed seeds at harvest

Michael Walsh, University of Western
Australia
Lance Turner, Farmer, WA

W Canola harvest management

Kathi Hertel, Primary Industries,
Industry & Investment NSW

Spalding

The season so far

Annual rain to date: 257mm (34mm since last report)

GSR to date: 156mm

GSR decile: 1.5

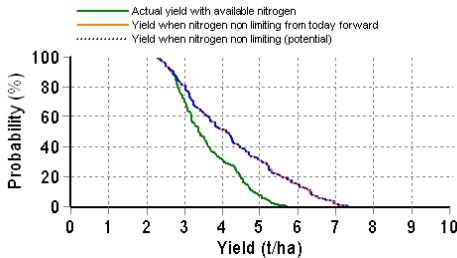
Current predicted PAW: 46mm

Crop growth

Variety: Gladius Sowing date: 18th May

Nitrogen fertiliser: 44kgN/ha

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.

Site information as of 6th September 2012

Grain & hay yield predictions

Yield prophet estimate: (Date of report 6/9/2012)

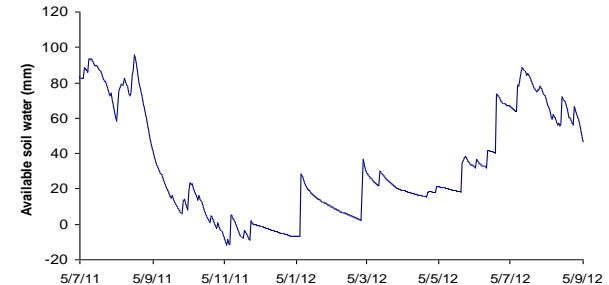
These estimates are based on a 50% probability

| Yield t/ha | Sown 18 th May (see graph) | Change from last report | Sown 5 th June | Change from last report |
|------------|---------------------------------------|-------------------------|---------------------------|-------------------------|
| Grain | 3.7 | 0.0 | 3.3 | 0.0 |

French & Schultz grain yield estimate:

100% WUE: 2.9t/ha, 80% WUE: 2.3t/ha

This model assumes that there is 22mm stored moisture, 110mm of evaporation and decile 5 (78mm) rainfall for the remainder of the season.



Farrell Flat

The season so far

Annual rain to date: 250mm (34mm since last report)

GSR to date: 176mm

GSR decile: 1.5

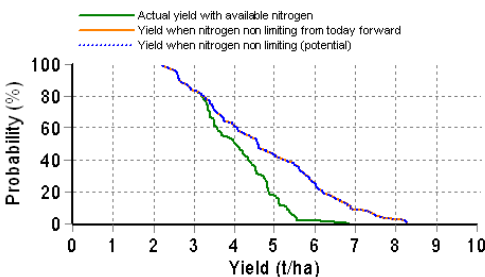
Current predicted PAW: 60mm

Crop growth

Variety: Scout Sowing date: 15th May

Nitrogen fertiliser: 30kgN/ha

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.

Site information as of 6th September 2012

Grain & hay yield predictions

Yield prophet estimate: (Date of report 6/9/2012)

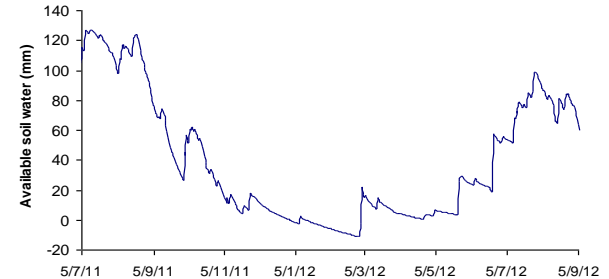
These estimates are based on a 50% probability

| Yield t/ha | Sown 15 th May (see graph) | Change from last report | Sown 5 th June | Change from last report |
|------------|---------------------------------------|-------------------------|---------------------------|-------------------------|
| Grain | 4.4 | -0.2 | 3.5 | -0.4 |

French & Schultz grain yield estimate:

100% WUE: 3.4t/ha, 80% WUE: 2.7ha

This model assumes that there is 15mm stored moisture, 110mm of evaporation and decile 5 (86mm) rainfall for the remainder of the season.



Tarlee

The season so far

Annual rain to date: 308mm (40mm since last report)

GSR to date: 224mm

GSR decile: 2.5

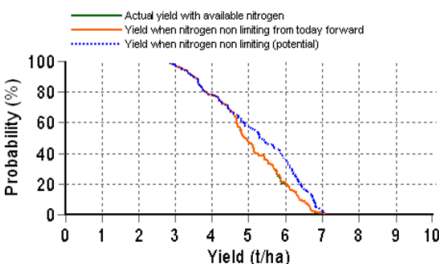
Current predicted PAW: 57mm

Crop growth

Variety: Scout Sowing date: 12th May

Nitrogen fertiliser: 50kgN/ha

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.

Site information as of 6th September 2012

Grain & hay yield predictions

Yield prophet estimate: (Date of report 6/9/2012)

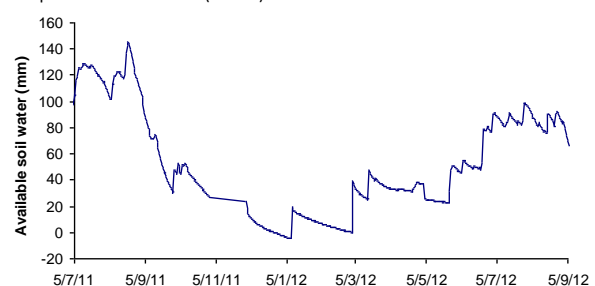
These estimates are based on a 50% probability

| Yield t/ha | Sown 12 th May (see graph) | Change from last report | Sown 5 th June | Change from last report |
|------------|---------------------------------------|-------------------------|---------------------------|-------------------------|
| Grain | 4.8 | -0.7 | 4.6 | -0.6 |

French & Schultz grain yield estimate:

100% WUE: 4.5t/ha, 80% WUE: 3.6/ha

This model assumes that there is 25mm stored moisture, 110mm of evaporation and decile 5 (88mm) rainfall for the remainder of the season.





Hart Beat



MID NORTH FARMERS

Would you like to trial the
Harrington Seed Destructor
in your paddock this harvest?

For your opportunity, hear Dr Michael Walsh speak
at the HART FIELD DAY and register now to attend this workshop:

**HARVEST – AN OPPORTUNITY TO CART,
CRUSH OR CREMATE WEED SEEDS**

Friday 21st September
8:30am – 12:30pm
Blyth Cinema

Harvest Weed Seed Control - Dr Michael Walsh (AHRI)

How to burn 10,000 ha of windrows - Andrew Messina (Farmer, Mullewa)

Chaff carts and weed management - Lance Turner (Farmer, Corrigin)

The Harrington Seed Destructor - Ray Harrington (Farmer, Darkan)

**Ten years of IWM smashes ryegrass seed banks
by 98% over 31 focus paddocks**

www.hartfieldsite.org.au

Registration and Enquiries:

Sandy Kimber | SECRETARY | 0427 423 154 | admin@hartfieldsite.org.au



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/ha) | Plant Available Water Capacity (mm) |
|--------------|------------------------------|-----------------------------|---------------------------------------|--|-------------------------------------|
| Condownie | 350 | Sandy loam | 13 | 114 | 127 |
| Hart | 400 | Sandy clay loam | 15 | 65 | 201 |
| Spalding | 430 | Red brown earth | 36 | 94 | 150 |
| Tarlee | 470 | Clay loam over clay on rock | 95 | 170 | 163 |
| Kybunga | 428 | Friable clay loam | 10 | 159 | 263 |
| Farrell Flat | 474 | Red clay loam over clay | 31 | 87 | 173 |

HART FIELD-SITE GROUP INC – Contact information

Sponsorship enquiries:

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Trials information:

Roy Rogers, Trials Manager, 0488 045 045

Peter Hooper, 0427 225 590

Membership / Admin enquiries:

Sandy Kimber, Secretary 0427 423 154

admin@hartfieldsite.org.au



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Important Notice: Yield Prophet® does not generate recommendations or advice, it is only a guide and must be combined with local paddock and district knowledge. APSIM does not take into account weed competition, pest/disease pressure, pesticide/herbicide damage, farmer error, or extreme events (such as extreme weather, flood and fire). For more information about APSIM or Yield Prophet® please visit www.yieldprophet.com.au

