



Hart Beat

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

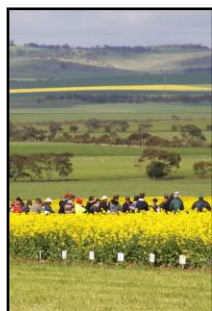
15th October 2010 Issue 11



2010 HART FIELD DAY PHOTOS



This year growers who registered at the Field Day before 10am went into the draw to win 2 x 1t new release certified seed. Winners: (L) Colin Edmondson, LongReach congratulates **Shawn Rayson** of Princess Royal Station, Burra and (R) Richard Prusa, AWB Seeds congratulates **David Parker** of Long Plains.



A special presentation by current Hart chairman Matt Dare to retired long serving Hart Board members & former chairmen; Phil Harris, Kevin Jaeschke & Linden Price.

SPRING TWILIGHT WALK

Thursday
October 21st 2010

5:00pm

at the Hart Site

- Wheat and barley varieties
- Lentil agronomy
- Pulse varieties
- Brome grass control
- Storing moisture over summer

FREE ENTRY

*BBQ and drinks supplied
at the walk's conclusion
courtesy of Rabobank*

The Yield Prophet model doesn't show much grain yield outcome variation but high temps, frost, disease etc. can certainly alter that. We feel that the yield prediction for Condowie in particular is unlikely, so please remember that these models provide predictions only.

♦♦♦

Don't forget the Hart website for diary dates, event programs, media releases and lots more photos!

www.hartfieldsite.org.au

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Hart Beat Newsletters – if you wish to update your contact details or change your preference from POST to EMAIL or vice versa, please phone Sandy on 0427 423 154 or email admin@hartfieldsite.org.au

Hart

Site information as of 15th October 2010

Soil type: Sandy clay loam
 PAWC: 201mm
 Average annual rainfall: 400mm
 Average GSR (Apr to Oct): 305mm

The season so far

Annual rain to date: 389mm
 GSR to date: 314mm (25mm since last report)
 GSR decile: 6.0
 Maximum temp since sowing: 30.3°C
 Minimum temp since sowing: -1.4°C
 Average temp accumulation per day: 10.7°C
 Current predicted soil N status: 29kg/ha
 Current predicted PAW: 36mm

Grain & hay yield predictions

Yield prophet estimate: (Date of report 15/10/2010)

These estimates are based on a 50% probability

Yield t/ha	Sown 14 th May (see graph)	Change from last report	Sown 5 th May	Change from last report
Grain	4.5	-0.1	3.0	0.0
Hay	8.0	0.0	3.0	0.0

French & Schultz grain yield estimate:

100% WUE: 4.4t/ha, 80% WUE: 3.5t/ha
 This model assumes that there is 110mm of evaporation and decile 5 (14mm) rainfall for the remainder of the growing season.

Pre-sowing soil nitrogen and water

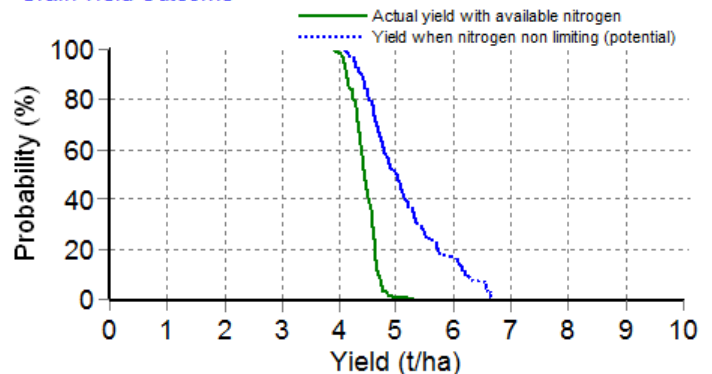
(measured 15th March)
 Soil N prior to sowing (0-90cm): 68kg/ha
 Plant available water at sowing (0-90cm): 0mm

Crop growth

Variety: Gladius
 Sowing date: 14th May
 Nitrogen fertiliser: 51kgN/ha
 Targeted plant density: 150 plants per square metre
 Chance of over 32°C max temp during grain fill: 52%
 Lowest temp since September 1st: -0.1°C (7th Sept)

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.

Grain Yield Outcome



Condowie

Site information as of 15th October 2010

Soil type: Sandy loam
 PAWC: 127mm
 Average annual rainfall: 349mm
 Average GSR (Apr to Oct): 252mm

The season so far

Annual rain to date: 329mm
 GSR to date: 290mm (32mm since last report)
 GSR decile: 7.5
 Maximum temp since sowing: 28.9°C
 Minimum temp since sowing: -0.9°C
 Average temp accumulation per day: 12.0°C
 Current predicted soil N status: 91kg/ha
 Current predicted PAW: 27mm

Grain & hay yield predictions

Yield prophet estimate: (Date of report 15/10/2010)

These estimates are based on a 50% probability

Yield t/ha	Sown 29 th April (see graph)	Change from last report	Sown 15 th May	Change from last report
Grain	5.0	0.0	5.0	0.0
Hay	6.0	0.0	7.0	0.0

French & Schultz grain yield estimate:

100% WUE: 3.8t/ha, 80% WUE: 3.1t/ha
 This model assumes that there is 110mm of evaporation and decile 5 (10mm) rainfall for the remainder of the growing season.

Pre-sowing soil nitrogen and water

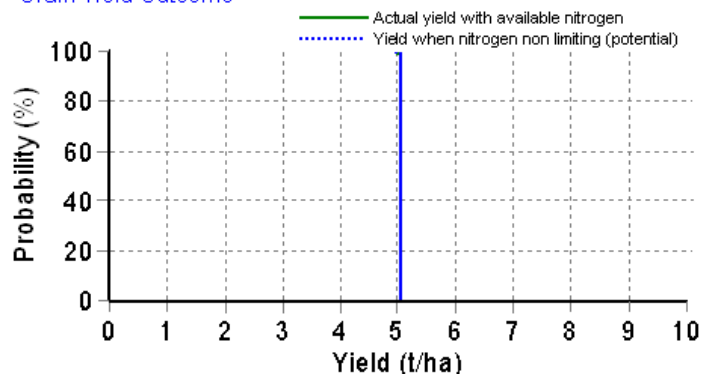
(measured 15th March)
 Soil N prior to sowing (0-90cm): 215kg/ha
 Plant available water at sowing (0-90cm): 0mm

Crop growth

Variety: Gladius
 Sowing date: 29th April
 Nitrogen fertiliser: 6kgN/ha
 Plant density: 120 plants per square metre
 Chance of over 32°C max temp during grain fill: 0%
 Lowest temp since September 1st: -0.9°C (7th Oct)

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.

Grain Yield Outcome



Spalding

Site information as of 15th October 2010

Soil type: Red brown earth
 PAWC: 150mm
 Average annual rainfall: 434mm
 Average GSR (Apr to Oct): 322mm

The season so far

Annual rain to date: 428mm
 GSR to date: 389mm (49mm since last report)
 GSR decile: 8.5
 Maximum temp since sowing: 27.6°C
 Minimum temp since sowing: -4.1°C
 Average temp accumulation per day: 10.0°C
 Current predicted soil N status: 27kg/ha
 Current predicted PAW: 82mm

Grain & hay yield predictions

Yield prophet estimate: (Date of report 15/10/2010)

These estimates are based on a 50% probability

Yield t/ha	Sown 6 th May (see graph)	Change from last report	Sown 15 th May	Change from last report
Grain	6.0	0.0	6.3	+0.2
Hay	8.0	0.0	8.3	+0.1

French & Schultz grain yield estimate:

100% WUE: 5.9t/ha, 80% WUE: 4.7t/ha
 This model assumes that there is 110mm of evaporation and decile 5 (14mm) rainfall for the remainder of the growing season.

Pre-sowing soil nitrogen and water

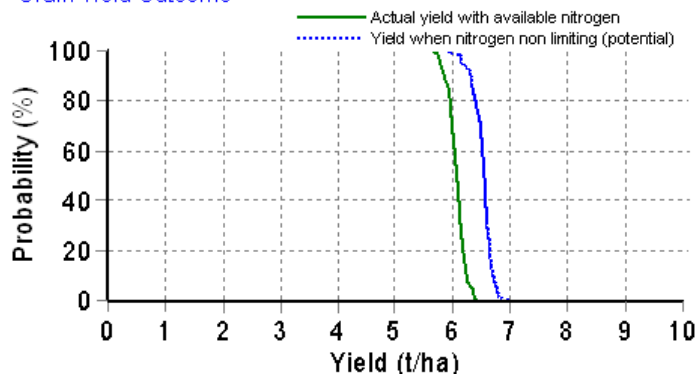
(measured 15th March)
 Soil N prior to sowing (0-90cm): 102kg/ha
 Plant available water at sowing (0-90cm): 0mm

Crop growth

Variety: Gladius
 Sowing date: 6th May
 Nitrogen fertiliser: 42kgN/ha
 Targeted plant density: 150 plants per square metre
 Chance of over 32°C max temp during grain fill: 24%
 Lowest temp since September 1st: -2.8°C (7th Oct)

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.

Grain Yield Outcome



Tarlee

Site information as of 15th October 2010

Soil type: Clay loam over clay on rock
 PAWC: 122mm
 Average annual rainfall: 469mm
 Average GSR (Apr to Oct): 350mm

The season so far

Annual rain to date: 455mm
 GSR to date: 423mm (36mm since last report)
 GSR decile: 5.5
 Maximum temp since sowing: 29.3°C
 Minimum temp since sowing: -0.2°C
 Average temp accumulation per day: 11.4°C
 Current predicted soil N status: 28kg/ha
 Current predicted PAW: 80mm

Grain & hay yield predictions

Yield prophet estimate: (Date of report 15/10/2010)

These estimates are based on a 50% probability

Yield t/ha	Sown 13 th May (see graph)	Change from last report	Sown 5 th May	Change from last report
Grain	6.1	0.0	5.8	0.0
Hay	7.4	-0.1	7.1	0.0

French & Schultz grain yield estimate:

100% WUE: 6.8t/ha, 80% WUE: 5.5t/ha
 This model assumes that there is 110mm of evaporation and decile 5 (28mm) rainfall for the remainder of the growing season.

Pre-sowing soil nitrogen and water

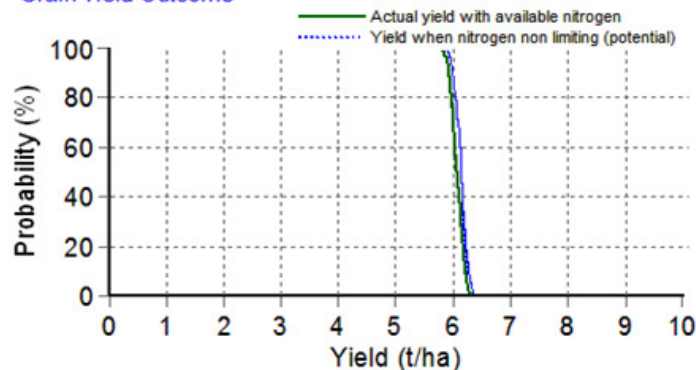
(measured 13th April)
 Soil N prior to sowing (0-90cm): 103kg/ha
 Plant available water at sowing (0-90cm): 35mm

Crop growth

Variety: Correll
 Sowing date: 13th May
 Nitrogen fertiliser: 50kgN/ha
 Targeted plant density: 150 plants per square metre
 Chance of over 32°C max temp during grain fill: 26%
 Lowest temp since September 1st: 0.2°C (7th Oct)

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.

Grain Yield Outcome



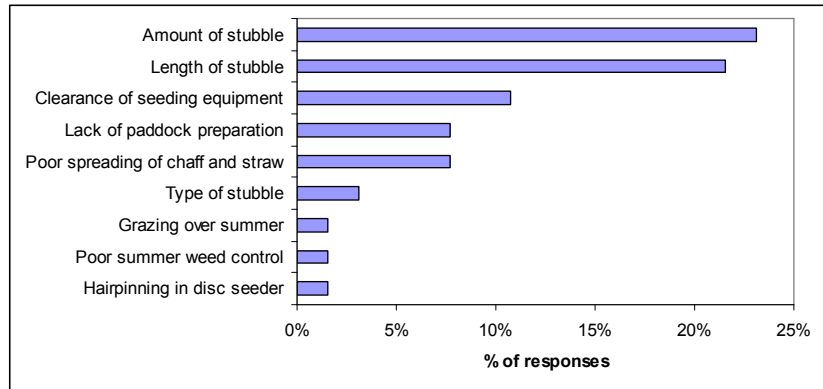
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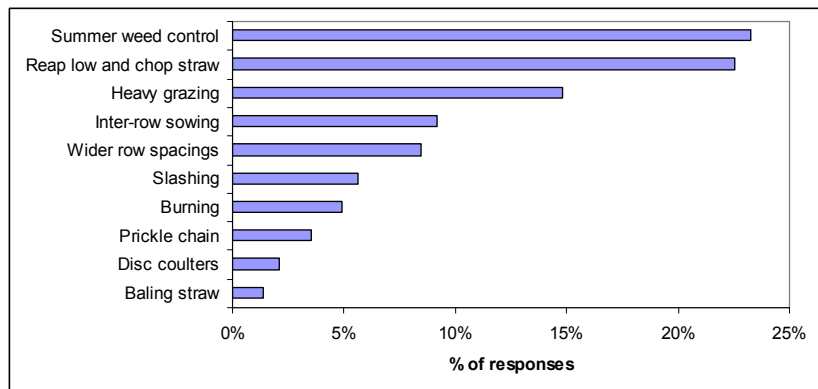
High stubble loads are likely again this harvest and so too are summer weeds. Collated responses from last year's Hart Grower's Survey may be helpful.

Q. At seeding, did you have any trouble sowing through the residue from 2008? If so, what contributed to this problem? n = 52

40% of growers had trouble at seeding



Q. If you didn't have any trouble, what helped to avoid this problem?



For the growers who were inter-row sowing in 2009, 56% reported improved stubble clearance. The main limitation was the accuracy of the auto-steer.

Rainfall and soil water characteristics for the WUE sites

Site	Average annual rainfall (mm)	Soil type	Drained upper limit (mm to 150cm)	Crop lower limit (mm to 150cm)	Plant Available Water Capacity (mm)
Condownie	350	Sandy loam	376	249	127
Hart	400	Sandy clay loam	683	482	201
Spalding	430	Red brown earth	469	319	150
Tarlee	470	Clay loam over clay on rock	511	348	163

Hart Field-Site Group contact information

Sponsorship enquiries

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HIGH RAINFALL ZONE

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