

Yathella BASF Liberty Link herbicide system demonstration 2021

Site Selection

- Site must have Ryegrass history and be selected ASAP, check NDVI history for uniformity
- Must be sown/dry sown at the start of local area planting window. E.g. the Wagga area 15th April.

Goals

- Purpose of the trial is to establish replicated strips of commercial and advanced BASF varieties, TT, TruFlex, LR and LT
- Early – Mid maturity sites and Mid maturity sites will have most suitable variety planted. Hybrid TT either Bonito or Wahoo, T 4510 or T 6010, TruFlex R 4022P or R 4520P.
- Varieties will be treated with standard herbicide program for their chemistry group, with additional herbicide combination treatments as per treatment list
- Efficacy and crop safety between herbicide programs will be observed and recorded.
- Post emergent knockdown will also be observed on an LTR & CLF hybrid strips
- Assess PodGuard advantage with seed loss trays at harvest and monitoring of volunteer growth post-harvest

Agronomy

- Aim for 40 plants/m². Planted with KPPW seeding system.
- **Seed counts and germination** to be supplied to trial operator
- Establishment pest management with slug baits and insecticide as required
- Flutriafol in furrow for additional Blackleg management
- Buffer strip of an EXPLTR.
- Applicable nutrition program for individual site to achieve maximum yield potential
- Sclerotinia management, suggest applying two applications of Revystar at 750 mL-1L/ha. Use the higher rate in higher yielding crops where conditions favour disease development. Suggest first application when early plots are at 20%-30% bloom. Second application 3-4 weeks later. Do not apply after 50% bloom.

Yathella site plan;

Fence Line.										GPS location: -34.925581, 147.442895																																																																										
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IBS Pre EM					No IBS Pre EM					IBS Pre EM					No IBS Pre EM																																																																					
LTR	LT	LR	RR (Truflex)		TT		LTR	LT	LR	RR (Truflex)		TT		LTR	IBS Pre EM	No IBS Pre EM																																																																				
Buffer AN20LTR004					AN20LT001					AN20LR005					AN20LR005					InVigor R 4022P					InVigor R 4520P					ATR Bonito					InVigor T 4510					Buffer AN20LTR004					AN20LT001					AN20LR005					AN20LR005					InVigor R 4022P					InVigor R 4520P					ATR Bonito					InVigor T 4510					Buffer AN20LTR004				
Planted 22nd April into marginal moisture on burn't Lupin stubble. 80kg/ha MAP at sowing, 80kg/ha Gran am 2nd June. Urea: 100kg/ha 9th July.																																																																																				
Pyrinex super 500mL/ha 22/4/21, Mouse & slug 22/4/21, Carbaryl 250mL/ha 12/5/21, mouse & slug 12/5/21, Pyrinex Super 500mL/ha 27/5/21, mouse & slug 27/5/21, Transcend slug bait 5kg/ha 2/6/21, Transcend 4/6/21 5kg/ha																																																																																				
Knockdown: 15/4/21, DK, IBS & PSPE : 22nd April, EPE 1 : 2-3 leaf 10th June, EPE 2 : 28th June.																																																																																				
EPE 2 Details : Water volume – 80L/ha, Droplet size – 110-01 at 3 bar (Medium), Time of day – 2.45 – 3.30pm.																																																																																				

Updated 23/07/21

Herbicide Programs

Site has a history of difficult to manage Ryegrass with a level of Group M resistance.

TT & LTR BUFFER;

- i) Glyphosate 540 @ 1.25Lt/ha + Wetter TX @ 200ml/100Lt (Approx. 7 days prior to sowing)
- ii) IBS – Rustler 500SC @ 1Lt/ha + Triflur 2Lt/ha + Gramoxone 360 Pro @ 1.4Lt/ha + Wetter TX @ 250ml/100Lt (within 24hrs sowing)
- iii) PSPE - **Atrazine @ 2.2kg/ha** + Pynex Super @ 500ml/ha
- iv) EPE timing 1 – 417 g/L liquid Ammonium Sulfate @ 2Lt/100Lt + **Select Xtra @ 330ml/ha + Lontrel Ad @ 150ml/ha** + Uptake 1Lt/100Lt

RR (Truflex) (a & b);

- i) Glyphosate 540 @ 1.25Lt/ha + Wetter TX @ 200ml/100Lt (Approx. 7 days prior to sowing)
- ii) IBS - Rustler 500SC @ 1Lt/ha + Triflur 2Lt/ha + Gramoxone 360 Pro @ 1.4Lt/ha + Wetter TX @ 250ml/100Lt (within 24hrs sowing)
- iii) PSPE – Pynex Super @ 500ml/ha
- iv) EPE timing 1 – 417 g/L liquid Ammonium Sulfate @ 2Lt/100Lt + **Roundup Ready Plantshield @ 1.3kg/ha + Lontrel Ad @ 150ml/ha**
- v) EPE timing 2 – **Roundup Ready Plantshield @ 1.3kg/ha** (at least 14 days after previous Glyphosate application)

RR (Truflex) (c);

- i) Glyphosate 540 @ 1.25Lt/ha + Wetter TX @ 200ml/100Lt (Approx. 7 days prior to sowing)
- ii) IBS - Rustler 500SC @ 1Lt/ha + Triflur 2Lt/ha + Gramoxone 360 Pro @ 1.4Lt/ha + Wetter TX @ 250ml/100Lt (within 24hrs sowing)
- iii) PSPE – Pynex Super @ 500ml/ha
- iv) EPE timing 1 – 417 g/L liquid Ammonium Sulfate @ 2Lt/100Lt + **Roundup Ready Plantshield @ 1.3kg/ha + Select Xtra @ 330ml/ha + Lontrel Ad @ 150ml/ha + Uptake @ 500ml/100Lt**
- v) EPE timing 2 – **Roundup Ready Plantshield @ 1.3kg/ha** (at least 14 days after previous Glyphosate application)

RR (Truflex) + Glufosinate;

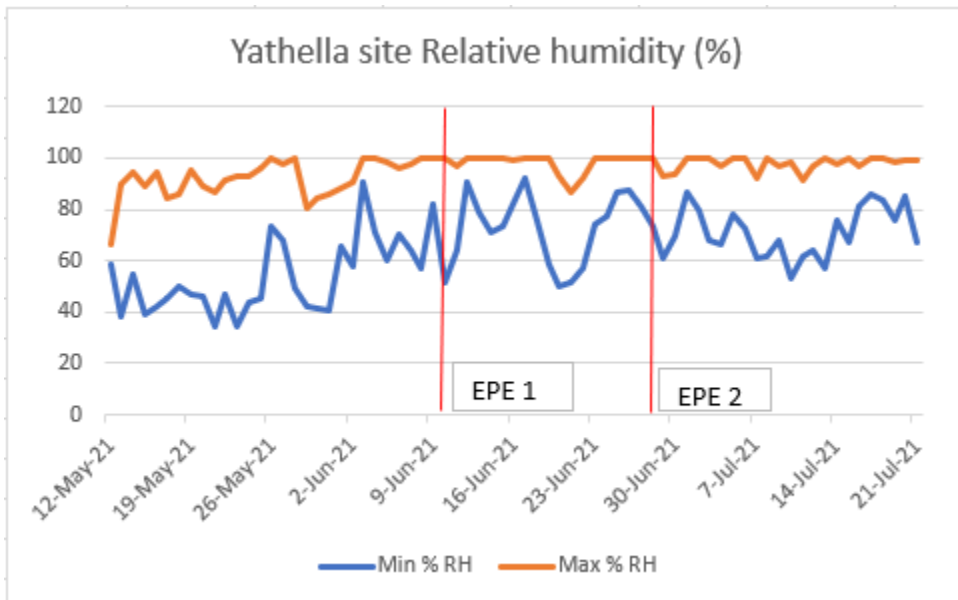
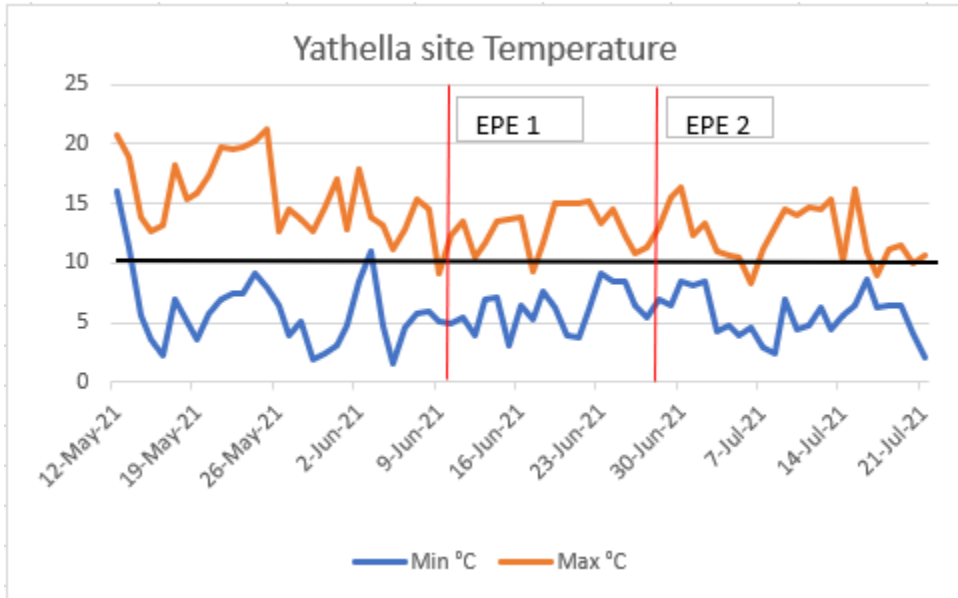
- i) Glyphosate 540 @ 1.25Lt/ha + Wetter TX @ 200ml/100Lt (Approx. 7 days prior to sowing)
- ii) IBS - Rustler 500SC @ 1Lt/ha + Triflur 2Lt/ha + Gramoxone 360 Pro @ 1.4Lt/ha + Wetter TX @ 250ml/100Lt (within 24hrs sowing)
- iii) PSPE - Pynex Super @ 500ml/ha
- iv) EPE timing 1 – Ammonium Sulphate (417 g/L) @ 2Lt/100Lt + **Roundup Ready Plantshield @ 1.3kg/ha + Liberty @ 2Ltha** (Ryegrass pre tiller, crop 2 to 3 leaf)
- v) EPE timing 2 – **Liberty @ 2Ltha** (MUST be 7 to 14 days after first Liberty spray)

Glufosinate + TT;

- i) Glyphosate 540 @ 1.25Lt/ha + Wetter TX @ 200ml/100Lt (Approx. 7 days prior to sowing)
- ii) IBS - Rustler 500SC @ 1Lt/ha + Triflur 2Lt/ha + Gramoxone 360 Pro @ 1.4Lt/ha + Wetter TX @ 250ml/100Lt (within 24hrs sowing)
- iii) PSPE – **Atrazine @ 2.2kg/ha** + Pyrinex Super @ 500ml/ha
- iv) EPE timing 1 – 417 g/L liquid Ammonium Sulfate @ 2Lt/100Lt + **Select Xtra @ 330ml/ha + Liberty @ 2Ltha** + Uptake @ 500ml/100Lt
- v) EPE timing 2 – **Liberty @ 2Ltha (MUST be 7 to 14 days after first Liberty spray)**

- *80Lt/ha water volumes for herbicide treatments*
- *EPE timing 1 is crop 2 leaf and Ryegrass pre tiller*
- *EPE timing 2 is either;*
 - *Second application Liberty mix 7 to 14 days after first Liberty application*
 - *Roundup Ready Plantshield at least 14 days after previous Glyphosate application*

Appendix



Wagga DPI Phenology 2020

