

2016 Landmark Trial Results

Grass Patch

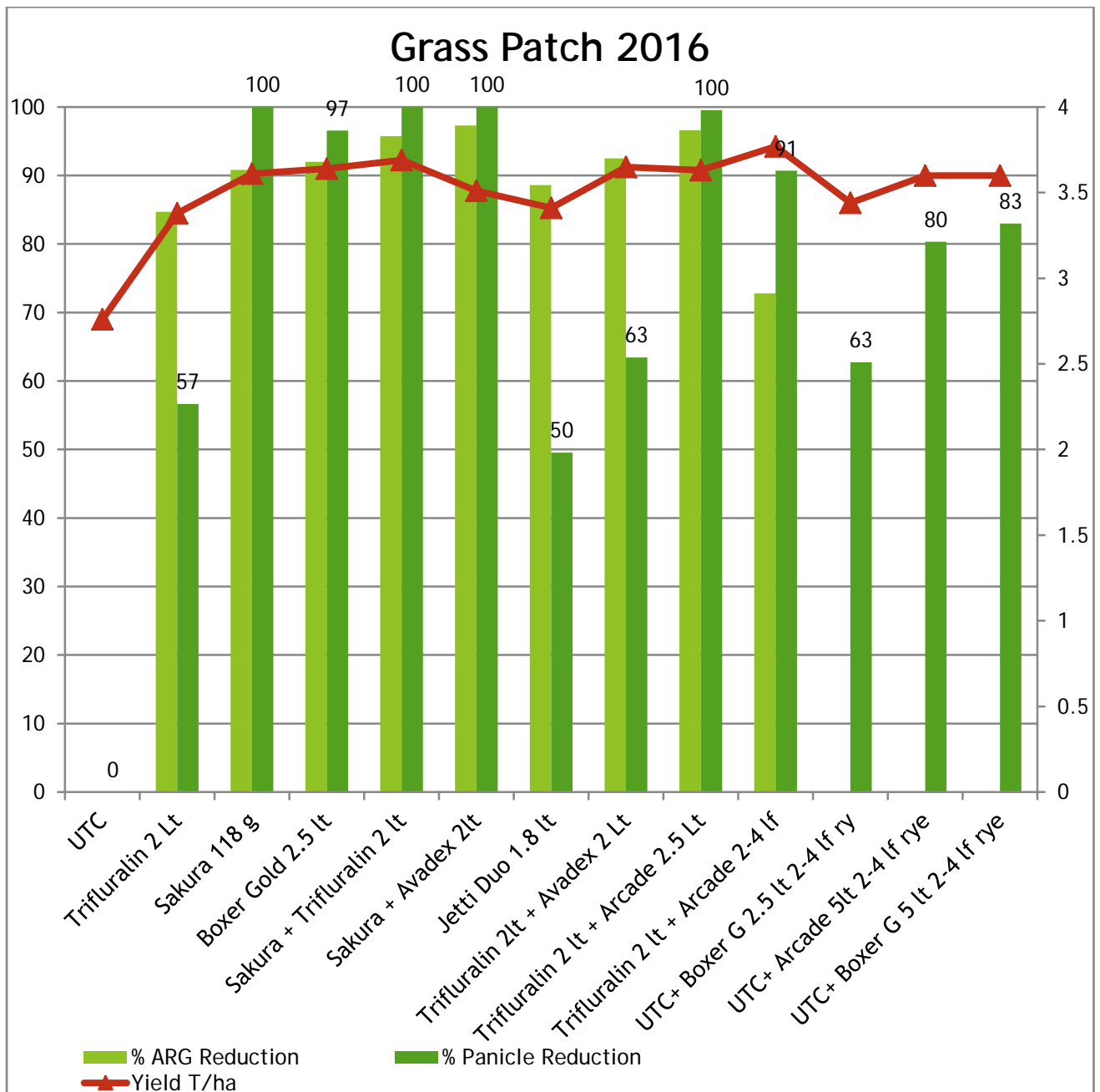
Ryegrass control in Wheat

Aim: Compare a number of available actives on controlling Annual Ryegrass within a cereal rotation under the environmental circumstances of Grass Patch.

Sowing date: 27th April

Post-em date: 43 days after sowing

Trt	Herbicide	Ryegrass Control %				Panicle Control %		Yield T/ha
		Pre-Emergent Rate	Post Emergent Rate	June-9-2016 43 DAS		Oct -6 -2016 162 DAS		
1	UTC	-	-	259 Plants/m2	a	1045 Panicles/m2	a	2.76
2	Trifluralin	2	-	85	bcd	57	ab	3.38
3	Sakura	118	-	91	cd	100	e	3.61
4	Boxer Gold	2.5	-	92	cd	97	d	3.64
5	Trifluralin + Sakura	2 + 118	-	96	d	100	e	3.69
6	Avadex + Sakura	2 + 118	-	97	d	100	e	3.51
7	Jetti Duo	1.8	-	89	bcd	50	ab	3.41
8	Trifluralin + Avadex	2 + 2	-	93	cd	63	ab	3.65
9	Trifluralin + Arcade	2 + 2.5	-	97	d	99	e	3.63
10	Trifluralin + Arcade Z13-23	2	2.5	73	abc	91	cd	3.77
11	UTC + Boxer Gold Z13-23	-	2.5	-		63	ab	3.44
12	UTC + Arcade Z13-23	-	5	-		80	bc	3.60
13	UTC + Boxer Gold Z13-23	-	5	-		83	bc	3.60
LSD (P=0.05)				8.31		5.70		0.411
CV				35.38t		27.09		6.94
Treatment Prob (F)				0.0002		0.0001		0.0065



Economic Return on Investment between product comparisons

Treatment		Yield		Gross/ha	Cost/ha	Profit/ha	\$ gain / ha
1	UTC	2.8	b	\$717.60	\$ -	\$717.60	\$ -
2	Trifluralin 2 L	3.4	a	\$878.80	\$10.80	\$866.80	\$149.20
3	Sakura 118 g	3.6	a	\$938.60	\$38.00	\$900.60	\$183.00
4	Boxer Gold 2.5 L	3.6	a	\$946.40	\$37.00	\$909.40	\$191.80
5	Trifluralin 2L Sakura 118 g	3.7	a	\$959.40	\$48.00	\$909.40	\$191.80
6	Avadex 2L Sakura 118 g	3.5	a	\$912.60	\$58.00	\$854.60	\$137.00
7	Jetti Duo 1.8 L	3.4	a	\$886.60	\$34.00	\$852.60	\$135.00
8	Trifluralin 2L Avadex 2 L	3.7	a	\$949.00	\$32.00	\$917.00	\$199.40
9	Trifluralin 2 L Arcade 2.5 L	3.6	a	\$943.80	\$42.00	\$901.80	\$184.20
10	Trifluralin 2 L Arcade 2.5 L 2-4 lf ryegrass	3.8	a	\$980.20	\$42.00	\$938.20	\$220.60
11	UTC+ Boxer G 2.5 L 2-4 lf ryegrass	3.4	a	\$894.40	\$38.00	\$856.40	\$138.80
12	UTC+ Arcade 5L 2-4 lf ryegrass	3.6	a	\$936.00	\$60.00	\$876.00	\$158.40
13	UTC+ Boxer G 5 L 2-4 lf ryegrass	3.6	a	\$936.00	\$76.00	\$860.00	\$142.40

Summary: Sakura treatments resembled the highest level of control throughout the whole season. Under high ryegrass pressure, and the wet season pushing late germinations, common practice of 2L/ha of Trifluralin did not have the strength to hold back pressure throughout the season providing an unacceptable level of control. Once a group K or J was added within the mix (Sakura, Boxer Gold or Arcade), there was an increase of control, especially later within the season, showing their strengths of long lasting residual throughout the wet season. The yield data corresponded to the level of ryegrass control proving that under a high ryegrass situation, investing in a more powerful pre-em you will be more profitable within the one season and left with a much cleaner paddock going into the following season.