

2015 Loveland Agri Products Trial Data

Adjuvants in Lupins for Annual Ryegrass

Lupins - Temora, NSW

Lov15_10

Trial Setup

- Fully randomised & replicated plot work – 4 replicates
- Plot size = 10m X 2.5m
- Treatments applied – Haloxyfop or Butroxydim +/- Hasten, MSO, Uptake or Liberate
- Spraying Date – 6th June 2015
- Crop Growth Stage – 6 – 8 leaf
- Trial not harvested.

Spraying Date	6th June 2015
Site	Des Ryan, Taylors Lane, Sth Temora, NSW.
Variety	Mandelup Narrowleaf Lupins @ 100 kg/ha
Protocol	Haloxyfop or Butroxydim +/- Hasten, MSO, Uptake or Liberate
GSP	Haloxyfop + Uptake

Trial Protocol

Treatment #	Treatment	Applied Rate
T1	Haloxypop + Hasten	75 ml/ha + 1.0%
T2	Haloxypop + MSO Leci Tech	75 ml/ha + 1.0%
T3	Haloxypop + Liberate	75 ml/ha + 0.5%
T4	Haloxypop + Uptake	75 ml/ha + 0.5%
T5	Butroxydim + MSO Leci Tech	150 gm/ha + 1.0%
T6	Butroxydim + Supercharge Elite	150 gm/ha + 0.75%
T7	Butroxydim + Liberate	150 gm/ha + 0.5%
T8	Untreated / Control	----

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Crop Phytotoxicity %

Treatment	Applied Rate	13 DAA	20 DAA
Haloxypop + Hasten	75 ml/ha + 1.0%	0.00	0.00
Haloxypop + MSO Leci Tech	75 ml/ha + 1.0%	0.00	0.00
Haloxypop + Liberate	75 ml/ha + 0.5%	0.00	0.00
Haloxypop + Uptake	75 ml/ha + 0.5%	0.00	0.00
Butroxydim + MSO Leci Tech	150 gm/ha + 1.0%	0.00	1.25
Butroxydim + Supercharge Elite	150 gm/ha + 0.75%	0.00	1.25
Butroxydim + Liberate	150 gm/ha + 0.5%	0.00	1.25
Untreated / Control	----	0.00	0.00
	Lsd (0.5)	0.000	2.216
	CV	0.0	321.37

Crop Biomass Reduction %

Treatment	Applied Rate	13 DAA	20 DAA	27 DAA
Haloxypop + Hasten	75 ml/ha + 1.0%	0.00	0.00	0.00
Haloxypop + MSO Leci Tech	75 ml/ha + 1.0%	0.00	0.57	0.00
Haloxypop + Liberate	75 ml/ha + 0.5%	0.00	0.00	0.00
Haloxypop + Uptake	75 ml/ha + 0.5%	0.00	0.00	0.00
Butroxydim + MSO Leci Tech	150 gm/ha + 1.0%	5.00	3.46	1.85
Butroxydim + Supercharge Elite	150 gm/ha + 0.75%	2.50	5.00	0.57
Butroxydim + Liberate	150 gm/ha + 0.5%	2.50	3.90	2.83
Untreated / Control	----	0.00	0.00	0.00
	Lsd (0.5)		0.377t	0.388t
	CV	261.86	88.73	171.09

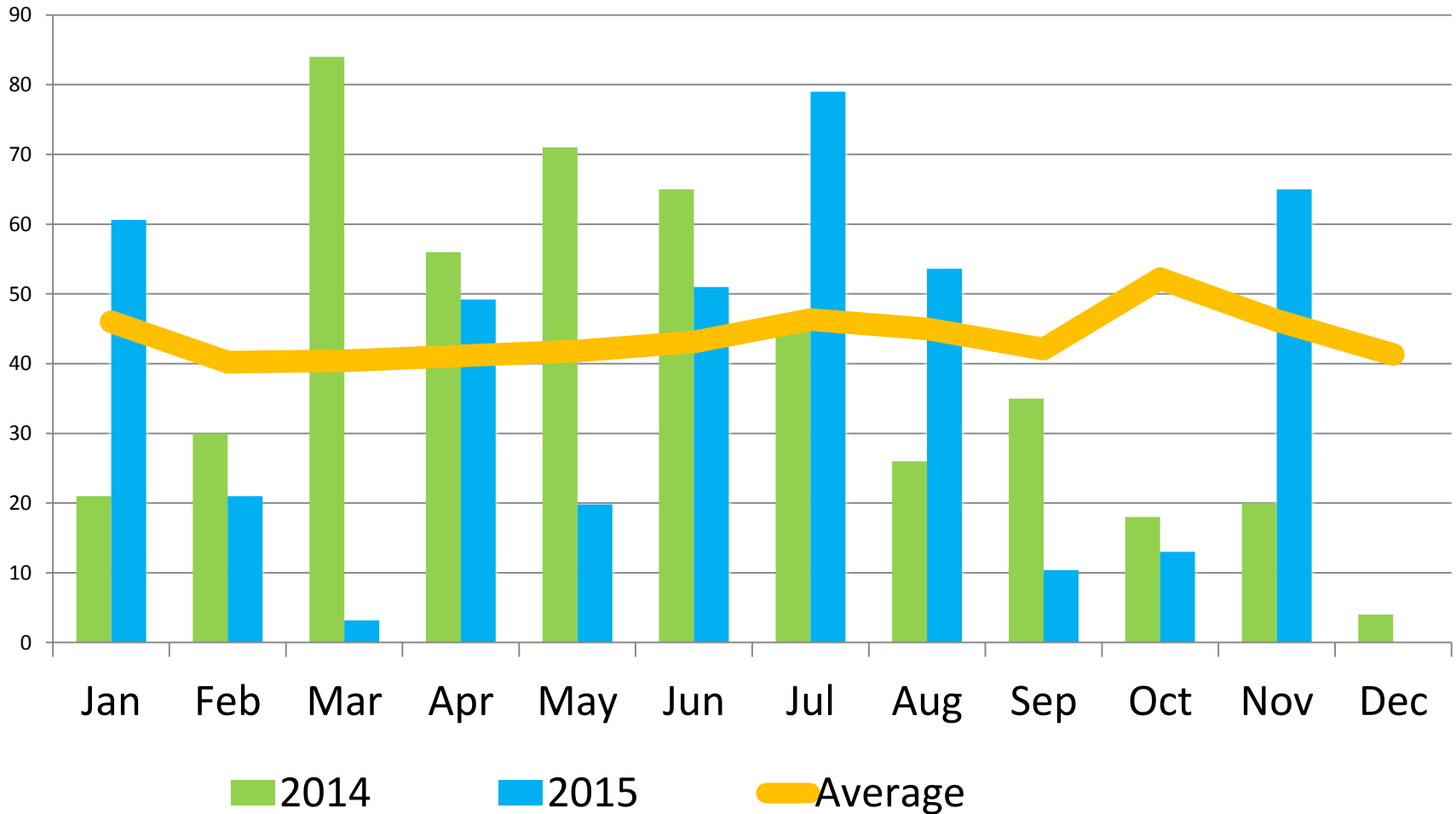
Control % - ARG

Treatment	Applied Rate	13 DAA	48 DAA
Haloxypop + Hasten	75 ml/ha + 1.0%	10.00	10.70
Haloxypop + MSO Leci Tech	75 ml/ha + 1.0%	10.00	11.90
Haloxypop + Liberate	75 ml/ha + 0.5%	12.50	12.23
Haloxypop + Uptake	75 ml/ha + 0.5%	10.00	11.17
Butroxydim + MSO Leci Tech	150 gm/ha + 1.0%	37.50	95.07
Butroxydim + Supercharge Elite	150 gm/ha + 0.75%	45.00	96.06
Butroxydim + Liberate	150 gm/ha + 0.5%	27.50	86.50
Untreated / Control	----	0.00	0.00
	Lsd (0.5)	6.543	4.553t
	CV	23.34	8.16

Control % - Wild Oats

Treatment	Applied Rate	13 DAA	20 DAA	34 DAA
Haloxypop + Hasten	75 ml/ha + 1.0%	15.00	57.50	95.50
Haloxypop + MSO Leci Tech	75 ml/ha + 1.0%	12.50	51.25	94.75
Haloxypop + Liberate	75 ml/ha + 0.5%	15.00	48.75	95.50
Haloxypop + Uptake	75 ml/ha + 0.5%	10.00	56.25	93.75
Butroxydim + MSO Leci Tech	150 gm/ha + 1.0%	25.00	68.75	96.50
Butroxydim + Supercharge Elite	150 gm/ha + 0.75%	25.00	72.50	96.75
Butroxydim + Liberate	150 gm/ha + 0.5%	20.00	72.50	97.00
Untreated / Control	----	0.00	0.00	0.00
	Lsd (0.5)	9.973	8.989	3.228
	CV	44.28	11.44	2.62

Temora Research Station - Rainfall



Conclusions

- Butroxydim provided some level of Phyto and biomass reduction.
- ALL ARG not controlled by treatments would be considered resistant to group A herbicides