



Loveland

AGRI PRODUCTS

Trial Data

Paradigm + Adjuvants - Barley

Temora, NSW

Trial Setup

- Fully randomised and replicated plot work - 4 replicates
- Plot size = 10m X 2.5m

Spraying date: *07/07/2015*

Growth stage: *Z13 - Z22*

Target pest: *Mustard, Shepherds Purse*

Site: *Temora, NSW*

Variety: *La Trobe Barley @ 60kg/ ha*

GSP: *Paradigm + Uptake*

Protocol: *Paradigm +/- Liberate, Hasten, MSO with LECI-TECH or Uptake*

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Trial Protocol

	Treatment	Applied Rate
T1	Untreated	-
T2	Paradigm + Liberate	25gm/ ha + 0.5%
T3	Paradigm + Hasten	25gm/ ha + 1.0%
T4	Paradigm + MSO with LECI-TECH	25gm/ ha + 1.0%
T5	Paradigm + Uptake	25gm/ ha + 0.5%

Paradigm: 200g/ L Florasulam and 200g/ L Halauxifen

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Phytotoxicity %

Treatment		Applied Rate	7 DAA	14 DAA
T1	Untreated	-	0	0
T2	Paradigm + Liberate	25gm/ ha + 0.5%	0	0
T3	Paradigm + Hasten	25gm/ ha + 1.0%	0	0
T4	Paradigm + MSO with LECI-TECH	25gm/ ha + 1.0%	0	0
T5	Paradigm + Uptake	25gm/ ha + 0.5%	1.25	0
		LSD (P=0.05)	1.723	
		CV	447.21	

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Biomass Reduction

Treatment		Applied Rate	7 DAA	14 DAA
T1	Untreated	-	0	0
T2	Paradigm + Liberate	25gm/ ha + 0.5%	3.75	0
T3	Paradigm + Hasten	25gm/ ha + 1.0%	2.5	0
T4	Paradigm + MSO with LECI-TECH	25gm/ ha + 1.0%	3.75	0
T5	Paradigm + Uptake	25gm/ ha + 0.5%	6.25	0
		LSD (P=0.05)	5.757	
		CV	114.96	

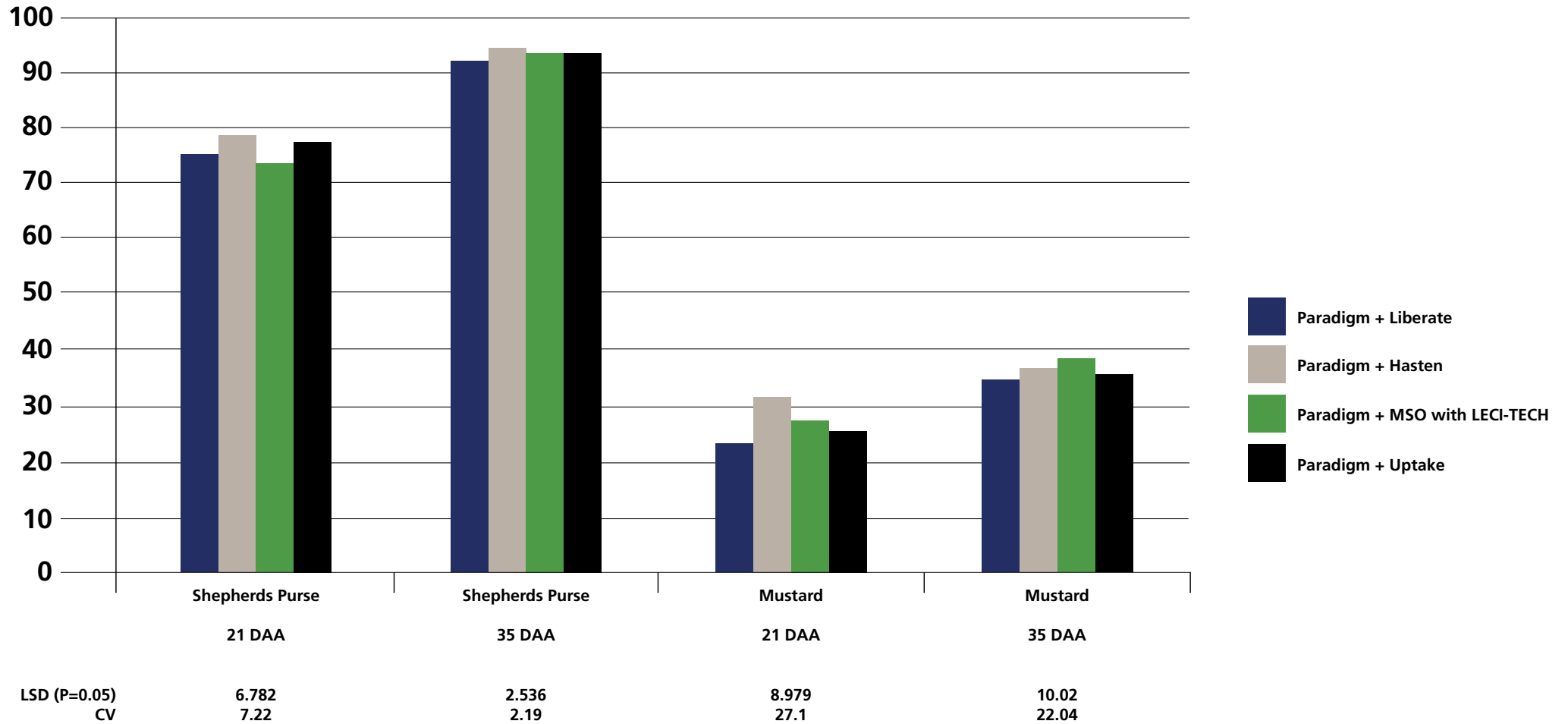
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Plant Death %

Treatment		Applied Rate	Shepherds Purse 21 DAA	Shepherds Purse 35 DAA	Mustard 21 DAA	Mustard 35 DAA
T1	Untreated	-	0	0	0	0
T2	Paradigm + Liberate	25gm/ ha + 0.5%	75.00	92.50	23.75	35.00
T3	Paradigm + Hasten	25gm/ ha + 1.0%	78.75	95.00	31.25	37.50
T4	Paradigm + MSO with LECI-TECH	25gm/ ha + 1.0%	73.75	93.75	27.50	38.75
T5	Paradigm + Uptake	25gm/ ha + 0.5%	77.50	93.75	25.00	36.25
LSD (P=0.05)			6.782	2.536	8.979	10.020
CV			7.22	2.19	27.1	22.04

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Plant Death %



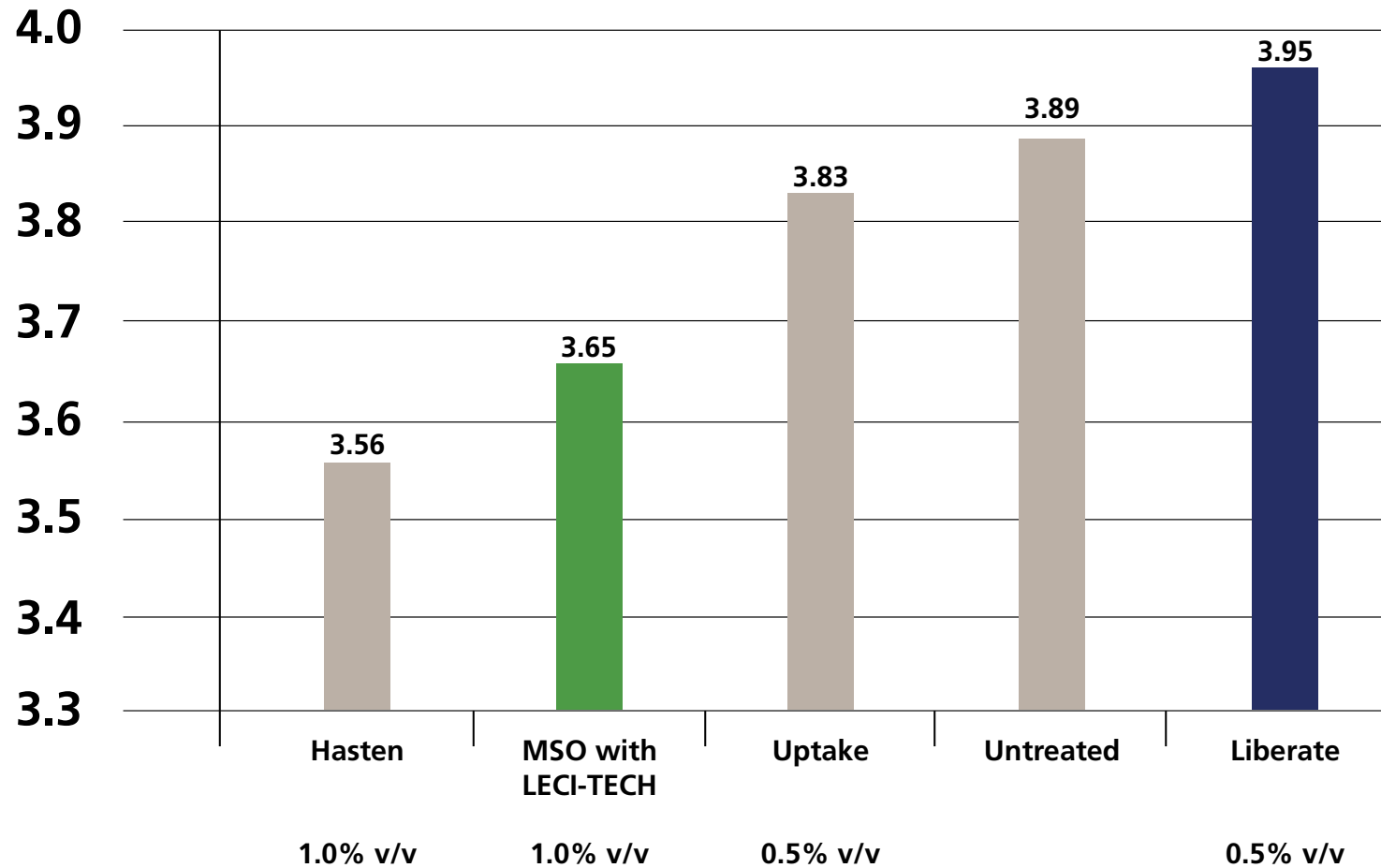
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Barley Yield - t/ ha

	Treatment	Applied Rate	Yield t/ ha
T1	Untreated	-	3.89
T2	Paradigm + Liberate	25gm/ ha + 0.5%	3.95
T3	Paradigm + Hasten	25gm/ ha + 1.0%	3.56
T4	Paradigm + MSO with LECI-TECH	25gm/ ha + 1.0%	3.65
T5	Paradigm + Uptake	25gm/ ha + 0.5%	3.83

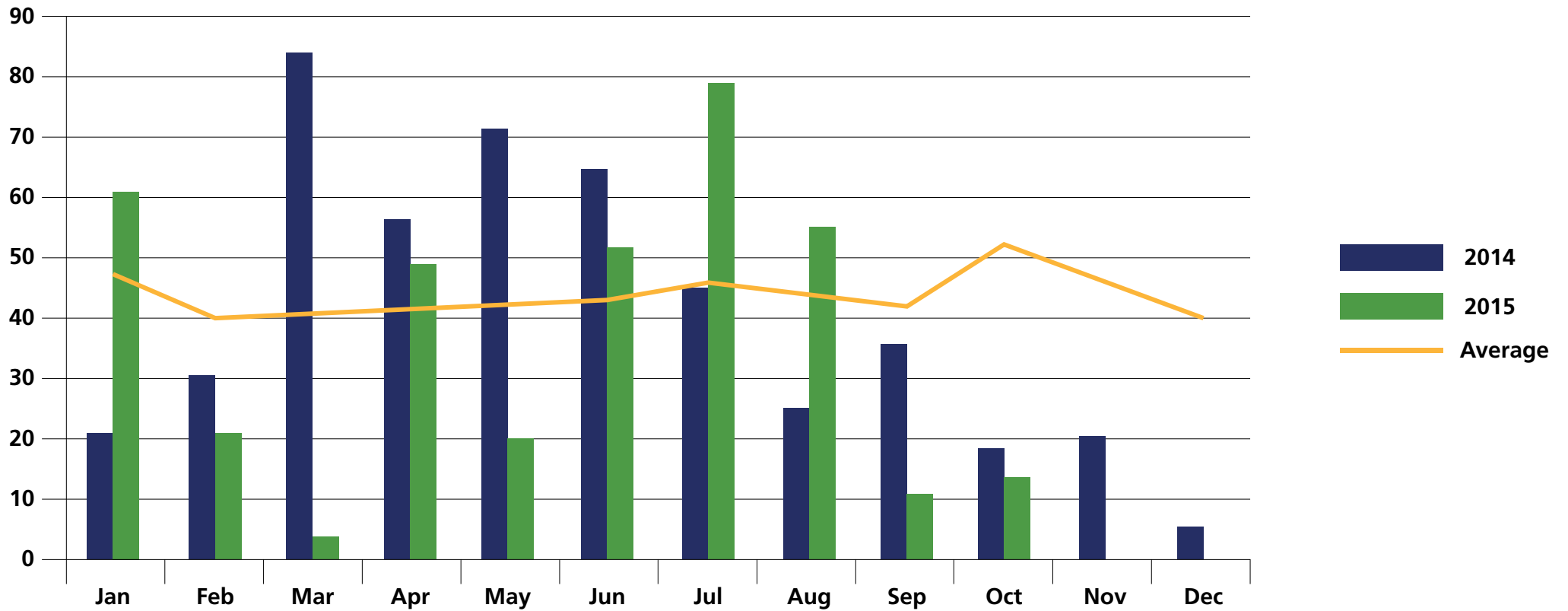
LSD (P=0.05) = 0.545 CV = 9.37

Barley Yield - t/ ha



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Temora - Rainfall (mm)



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Conclusions

- No phytotoxicity observed
- Minimal biomass seen at 7 days after application, but by 14 days after application it had returned to normal
- Liberate performed similar to Uptake for Shepherds Purse and Mustard control
- Mustard plants not controlled in this trial would be considered resistant to group B herbicide. Improved control would require MCPA as a mixing partner for improved efficacy
- Liberate is a suitable alternative to Uptake when applied in a tank mix with Paradigm for control of broadleaf weeds
- MSO with LECI-TECH is a suitable alternative to Hasten when applied in a tank mix with Paradigm for control of broadleaf weeds