



# **Loveland**

## **AGRI PRODUCTS**

### **Trial Data**

*Velocity + Adjuvants - Barley*

*Temora, NSW*

# Trial Setup

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

<b>Spraying date:</b>	<i>07/07/2015</i>
<b>Growth stage:</b>	<i>Z13 - Z22</i>
<b>Target pest:</b>	<i>Broadleaf weeds, Mustard, Shepherds Purse</i>
<b>Site:</b>	<i>Temora, NSW</i>
<b>Variety:</b>	<i>La Trobe Barley @ 60kg/ ha</i>
<b>GSP:</b>	<i>Velocity + Hasten @ 1.0%</i>
<b>Protocol:</b>	<i>Velocity +/- Liberate, Hasten, MSO with LECI-TECH or Uptake</i>

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# Trial Protocol

Treatment		Applied Rate
T1	Untreated	-
T2	Velocity + Liberate	750mL/ ha + 0.5%
T3	Velocity + Hasten	750mL/ ha + 1.0%
T4	Velocity + MSO with LECI-TECH	750mL/ ha + 1.0%
T5	Velocity + Uptake	750mL/ ha + 0.5%

*Velocity: 37.5g/ L Pyrasulfotole + 10g/ L Bromoxynil*

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# Crop Assessments

Treatment		Applied Rate	Phytotoxicity 7 DAA	Phytotoxicity 14 DAA	Biomass Reduction 7 DAA
T1	Untreated	-	0	0	0
T2	Velocity + Liberate	750mL/ ha + 0.5%	3.75	0	0
T3	Velocity + Hasten	750mL/ ha + 1.0%	1.25	0	0
T4	Velocity + MSO with LECI-TECH	750mL/ ha + 1.0%	2.50	0	0
T5	Velocity + Uptake	750mL/ ha + 0.5%	1.25	0	0

*LSD (P=0.05) = 0.408 CV = 6.66*

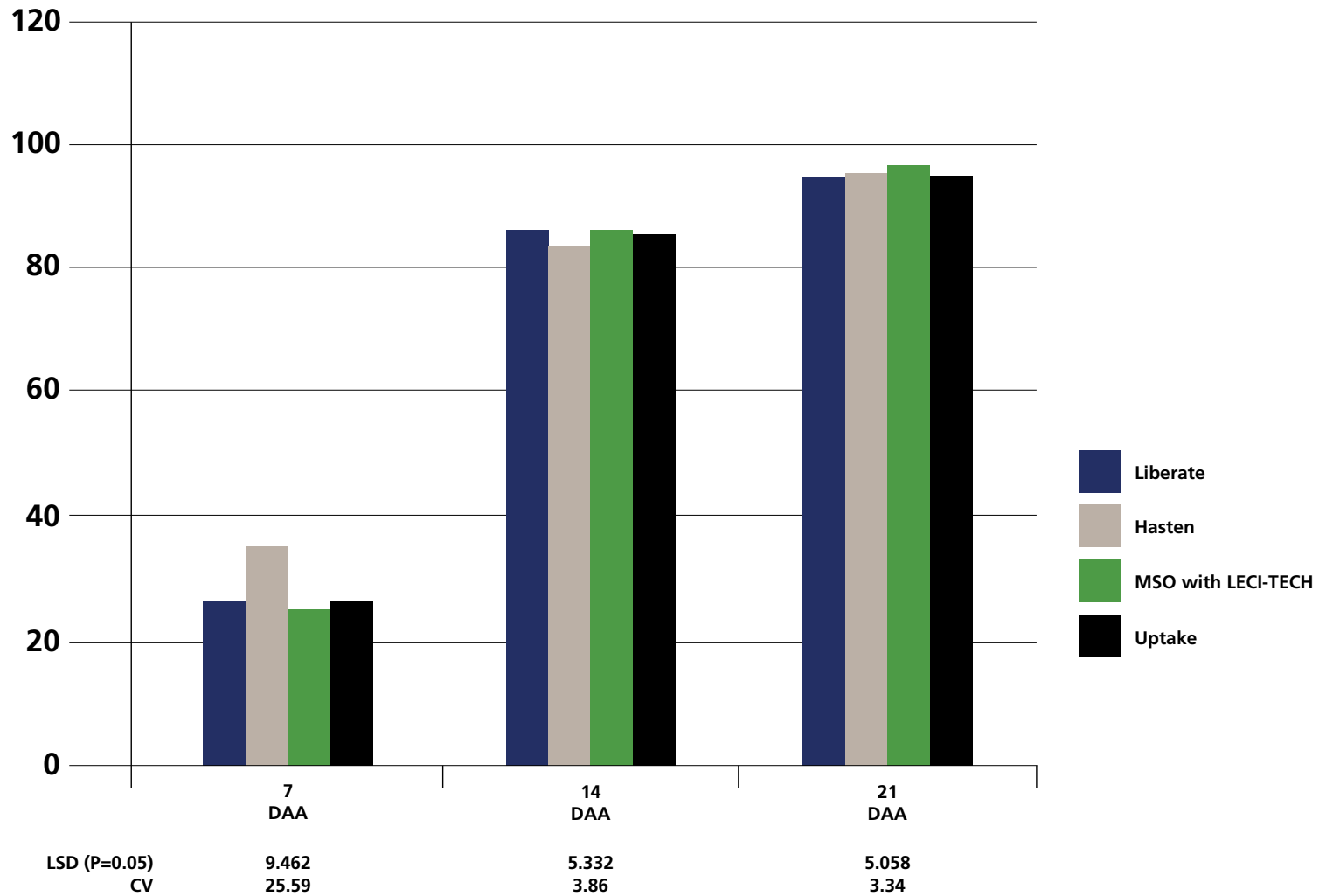
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# Plant Death - Combined Weeds %

Treatment		Applied Rate	7 DAA	14 DAA	21 DAA
T1	Untreated	-	0	0	0
T2	Velocity + Liberate	750mL/ ha + 0.5%	28.75	87.50	94.25
T3	Velocity + Hasten	750mL/ ha + 1.0%	35.00	83.75	94.75
T4	Velocity + MSO with LECI-TECH	750mL/ ha + 1.0%	27.50	87.50	96.00
T5	Velocity + Uptake	750mL/ ha + 0.5%	28.75	86.25	94.00
		LSD (P=0.05)	9.462	5.332	5.058
		CV	25.59	3.86	3.34

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# Plant Death - Combined Weeds %



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# Control % - Mustard & Shepherds Purse

Treatment		Applied Rate	Combined 7 DAA	Shepherds Purse 14 DAA	IH Mustard 21 DAA
T1	Untreated	-	0	0	0
T2	Velocity + Liberate	750mL/ ha + 0.5%	94.25	99.25	93.75
T3	Velocity + Hasten	750mL/ ha + 1.0%	94.75	100.00	93.00
T4	Velocity + MSO with LECI-TECH	750mL/ ha + 1.0%	96.00	100.00	92.50
T5	Velocity + Uptake	750mL/ ha + 0.5%	94.00	99.25	95.00
		LSD (P=0.05)	5.058	0.076t	4.619
		CV	3.34	0.61	3.09

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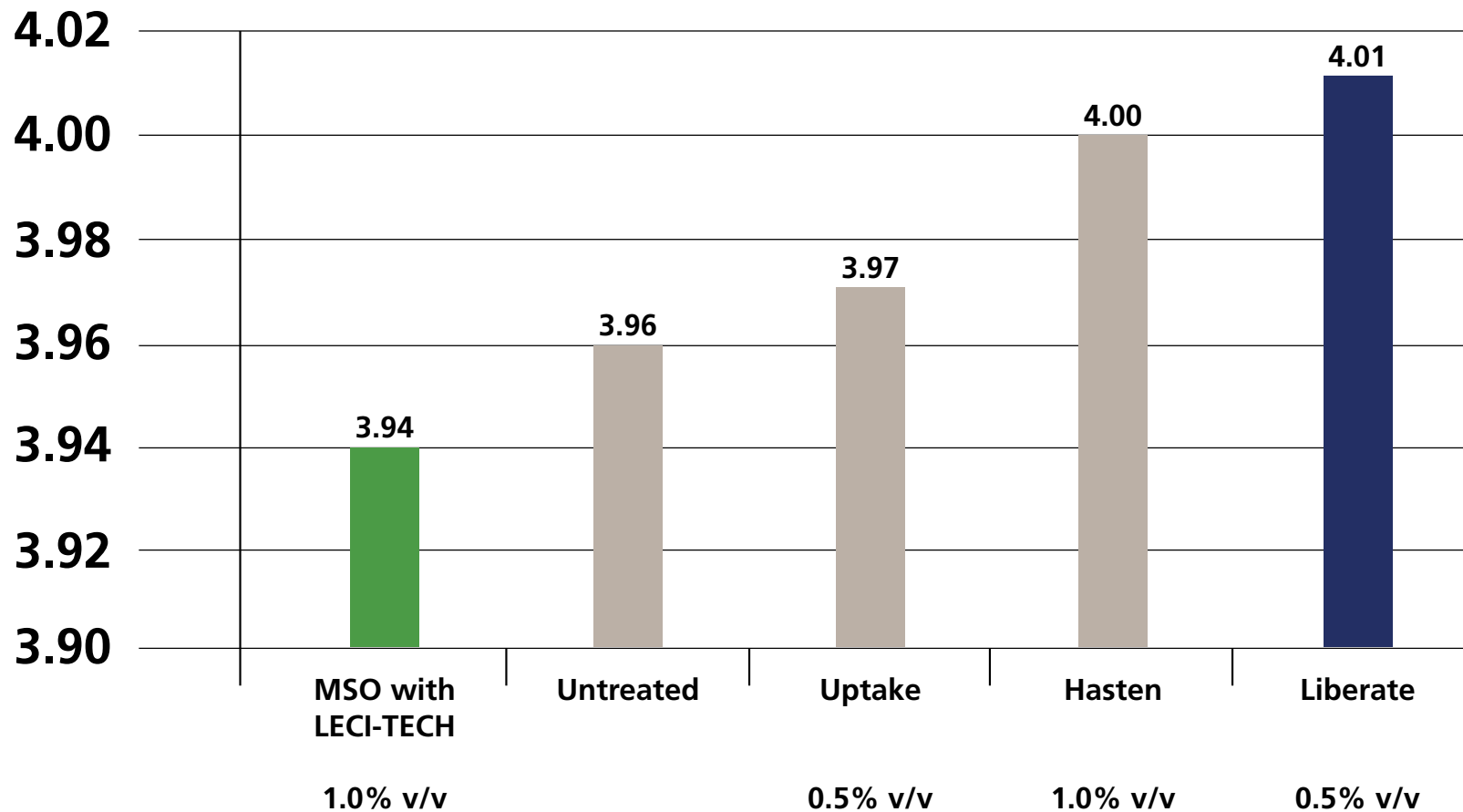
# Barley Yield - t/ ha

Treatment		Applied Rate	Yield t/ ha
T1	Untreated	-	3.96
T2	Velocity + Liberate	750mL/ ha + 0.5%	4.01
T3	Velocity + Hasten	750mL/ ha + 1.0%	4.01
T4	Velocity + MSO with LECI-TECH	750mL/ ha + 1.0%	3.94
T5	Velocity + Uptake	750mL/ ha + 0.5%	3.97

*LSD (P=0.05) = 0.408 CV = 6.66*



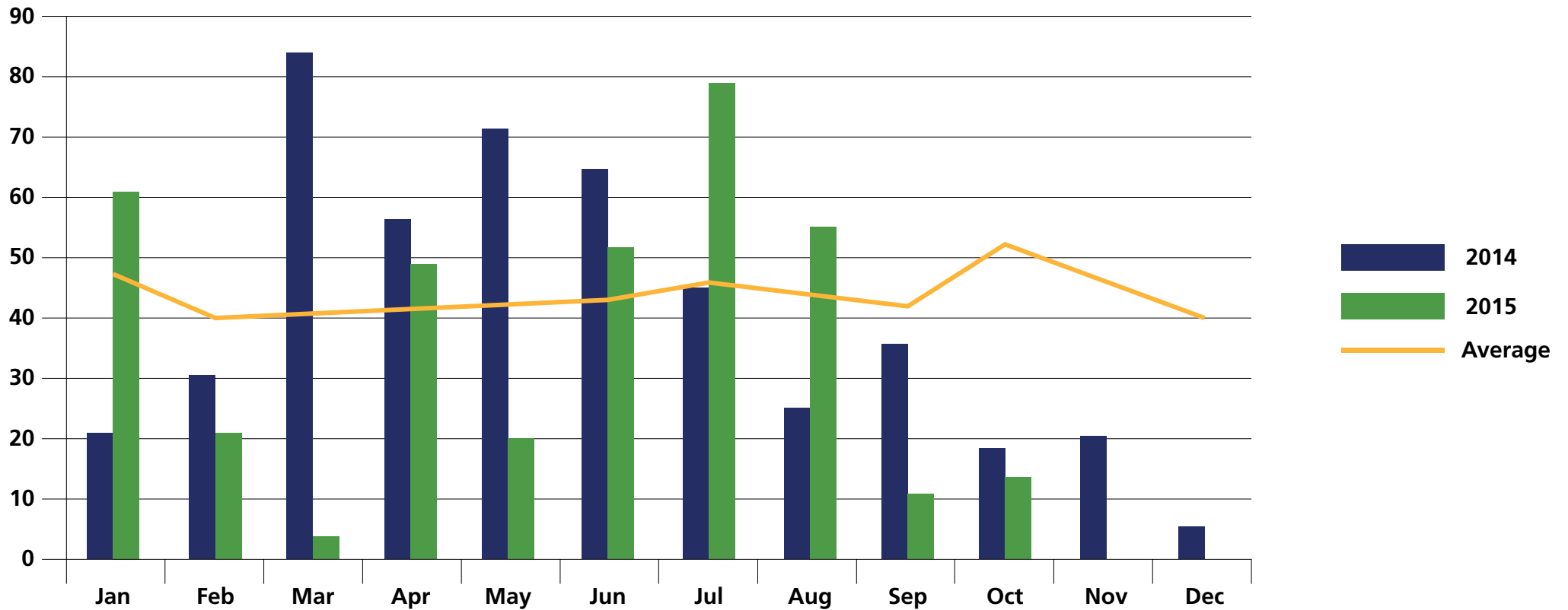
# Barley Yield - t/ ha



*LSD (P=0.05) = 0.408 CV = 6.66*

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# Temora - Rainfall (mm)



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# Conclusions

- Minor burning observed - would not readily pick it in a commercial crop
- No biomass reduction seen
- Hasten appeared to have a slightly quicker brownout, but at 21 days after application, minimal differences seen
- MSO with LECI-TECH can be considered a suitable alternative to Hasten and Liberate a suitable alternative to Uptake when tank mixing with Velocity for broadleaf weed control