

HAY TRIALS 2019

RESEARCH+
AGRONOMY

Flexi-N drives profitability in oaten hay production

AIM

To determine the most effective nitrogen (N) rate & timing strategy for growing oaten hay and grain.



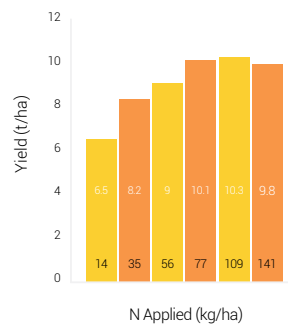
BACKGROUND

The Australian export hay market has shown consistent growth in recent years and this trend is likely to continue in the short to medium term. These trials have been established to understand the N requirements of oaten hay compared to oats (grain) and if application timing has an effect on yield and quality.

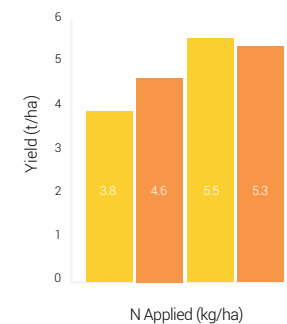
KEY MESSAGES

- Applications of Flexi-N increased hay yields and increased crude protein %.
- N rates were the biggest driver to yield increases. While earlier applications trended to increased yields, more trial work is required.
- 3.5t/ha hay yield response to 95N supplied by Flexi-N in Highbury. Hay profits maximised at 109 kg N/ha.
- 1.5t/ha hay yield response to 84N supplied by Flexi-N in Yerecoin. Hay profits maximised at 141kg N/ha.

Highbury Hay 2019



Yerecoin Hay 2019



Applied N (kg/ha)	Hay Yield (t/ha)	Crude Protein (%)	Flexi-N Returns (\$/ha)	Flexi-N Cost (\$/ha)	Flexi-N Profit (\$/ha)
Yerecoin W.A (returns relative to 57N)					
57	3.8	7.2	-	-	-
99	4.6	7.6	240	58	182
141	5.5	-	510	116	394
183	5.3	9.6	450	174	276
Prob.	<0.001	<0.001	-	-	-
LSD	0.79	0.83	-	-	-
Highbury W.A (returns relative to 14N)					
14	6.5	6.1	-	-	-
35	8.2	7.4	501	29	481
56	9	7.0	750	59	691
77	10.1	7.5	1080	88	992
109	10.3	8.6	1140	133	1007
141	9.8	9.6	990	178	812
Prob.	<0.01	<0.001	-	-	-
LSD	2.1	0.93	-	-	-

* Assumptions - \$1.40/kg N, \$300/t Hay

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