

Productivity Highlights

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Improved production with MacroPro or K-Till

Background

After decades of farming, soil reserves of potassium are depleted in many areas of WA. Traditionally, potassium deficiency was overcome with the application of Muriate of Potash, topdressed near the break of the season for pastures and before or soon after sowing for crops.

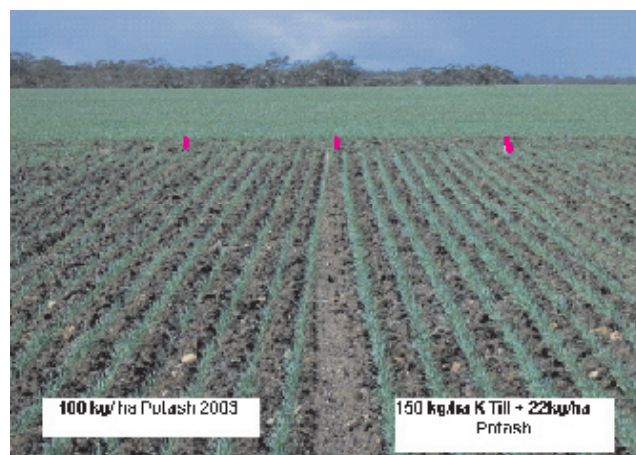
However, recent CSBP trials have demonstrated how potassium placement near the seed is beneficial to crops in terms of early potassium uptake and growth and increased grain yields. These benefits are only realised when other nutrients such as nitrogen, phosphorus and sulfur are also provided in adequate amounts near the seed as well.

Key Results

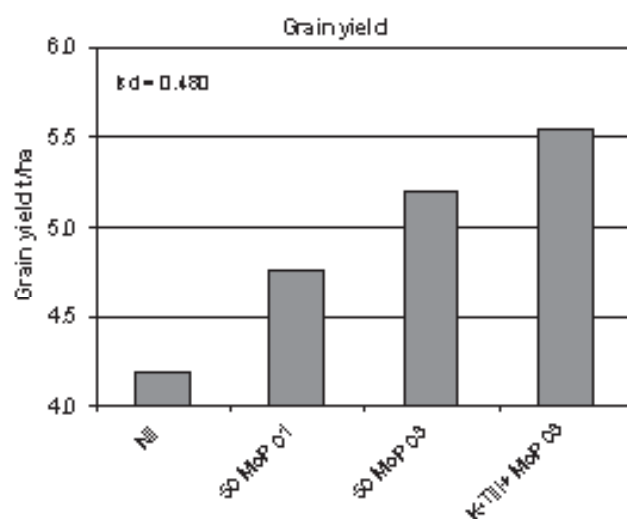
- Using a nitrogen, phosphorus, potassium and sulfur compound fertiliser like MacroPro Extra or K-Till Extra increases early crop vigour and nutrient uptake and early crop vigour compared to drilling Agstar and topdressing Muriate of Potash
- Early crop vigour and growth sets up good yield potential. This is reflected in extra grain yield for the same level of input
- Grain yields increased by up to 17 per cent compared with treatments topdressed with Muriate of Potash

Summary

- MacroPro Extra or K-Till Extra banded near the seed ensure good early potassium supply to seedlings and can provide growth and yield improvements over topdressed potash, especially under dry conditions
- Options for providing potassium to crops have expanded with the MacroPro and K-Till ranges



Topdressed potassium as MoP compared to drilled potassium



Banded K-Till yielded best at Narrogin

Banded (kg/ha)	Boom + TD IBS	K (kg/ha)	Plant weight (7WAS)	Grain yield (t/ha)
124 Agstar	50L/ha Flexi-N	0	25.3	1.27
124 Agstar	50L/ha Flexi-N	24	32.2	1.88
	48kg/ha Potash			
140 K-Till	73L/ha Flexi-N	24	43.0	2.19

IBS = incorporated by seeding, WAS = weeks after seeding