

Challenges in meeting agronomic and environmental targets for phosphorus use in acid sandy soils

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Wattle Room: P use efficiency in mining, agriculture, food processing II



Challenges in meeting agronomic and environmental targets for phosphorus use on acid sandy soils

CORAL PHOSPHORE

Mike Wong and David Weaver

PBI range	Temperate grazed pastures	Wheat	Temperate grazed pastures	Wheat
0-5	10	7	76.2	7.6
5-10	15	10	1.6	0.46
10-15	20	12	0.77	0.22
15-35	25	16	0.24	0.12
35-70	29	22	0.10	0.08
70-140	34	29	0.07	0.06
140-280 脳	40 👔 🌂	4 38	0.05	0.05

3RD SUSTAINABLE PHOSPHORUS SUMMIT

Sydney 29th February – 2nd March 2012



- Percentage P applied recovered in grains ~ 48% and grazed pastures < 30%
- Over 80% of 109,000 soil samples examined > CV for crops and pastures
- Little yield gains with P application
- Management options include:
 - lowering soil P to CV
 - ameliorating soils to increase PBI
 - •split fertiliser application
 - •using crops and pastures with lower external P requirement.

