

AN INITIATIVE OF
Making More From Sheep



Turning Pasture into Profit - Cooma

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EVENT
PARTNERS:



Ruralco
HOLDINGS LIMITED



EVENT
SUPPORTERS:



STATE
PRIMARY
INDUSTRY
AGENCIES

How do we:-

- Wean 10% more lambs per hectare?
- Achieve 10% more carcass weight?
- Cut 10% more wool?

What are the options?

Making More From Sheep



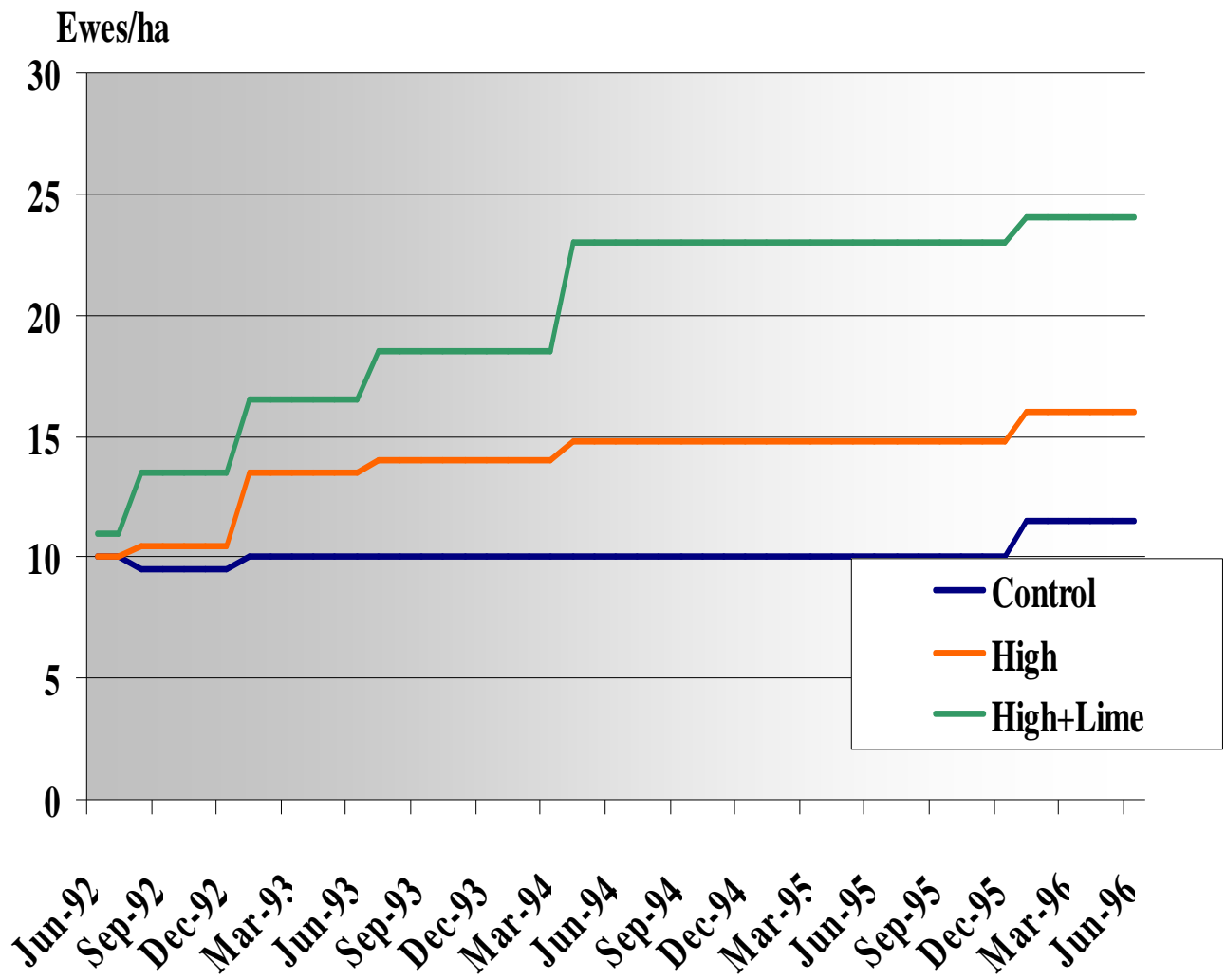
- Improve grazing management
- Run more stock
 - Grow more feed
 - Grow better feed
- Produce more per animal
 - Improved genetics
 - Better feeding
 - Grow better feed
- Where is the best value for money?

Effect of Fertilizer and Grazing System (PVI) on SR (ewes/ha)

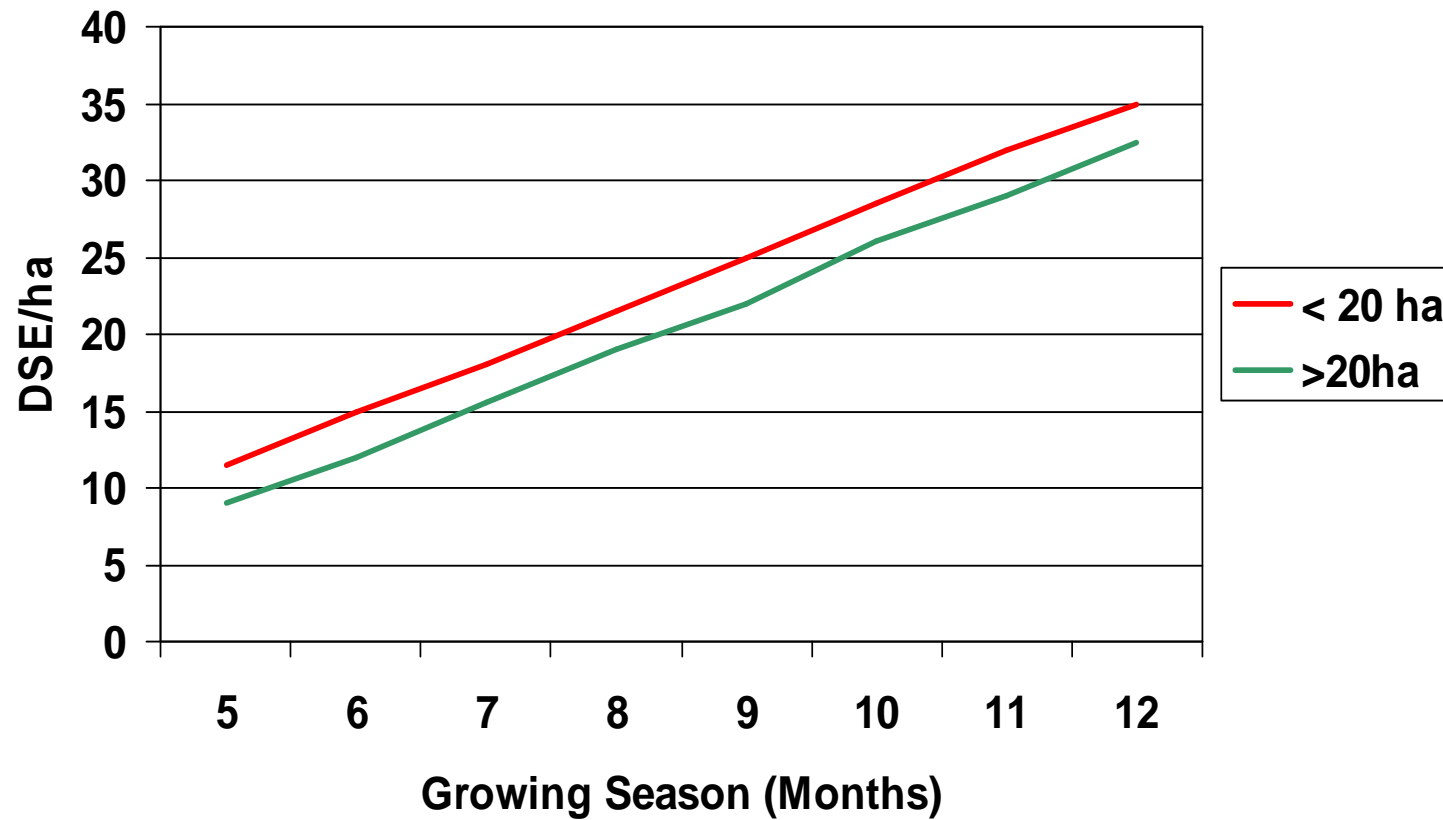
Fertilizer	Set Stocked	Rotational	% Change (SR effect)
6 kg P/ha	8.0	9.5	19%
26 kg P/ha	13.2	14.9	13%
% Change (Fert effect)	65%	57%	

Changes in Stocking Rate, Year VIC

Making More From Sheep



Effect of Growing Season on Stocking Rate





- <http://www.mla.com.au/Publications-tools-and-events/Publication-details?pubid=5011>

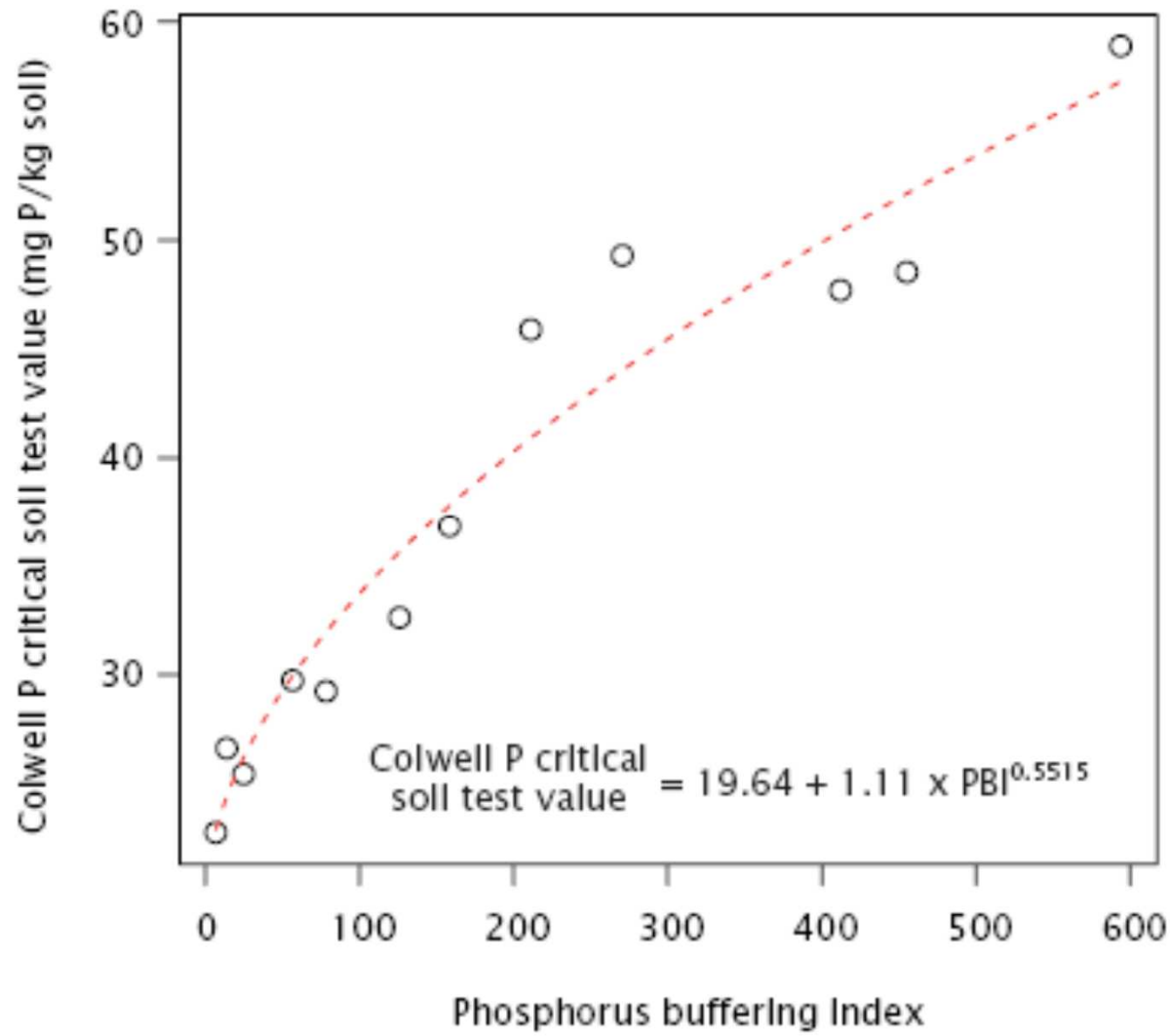
Five Easy Steps

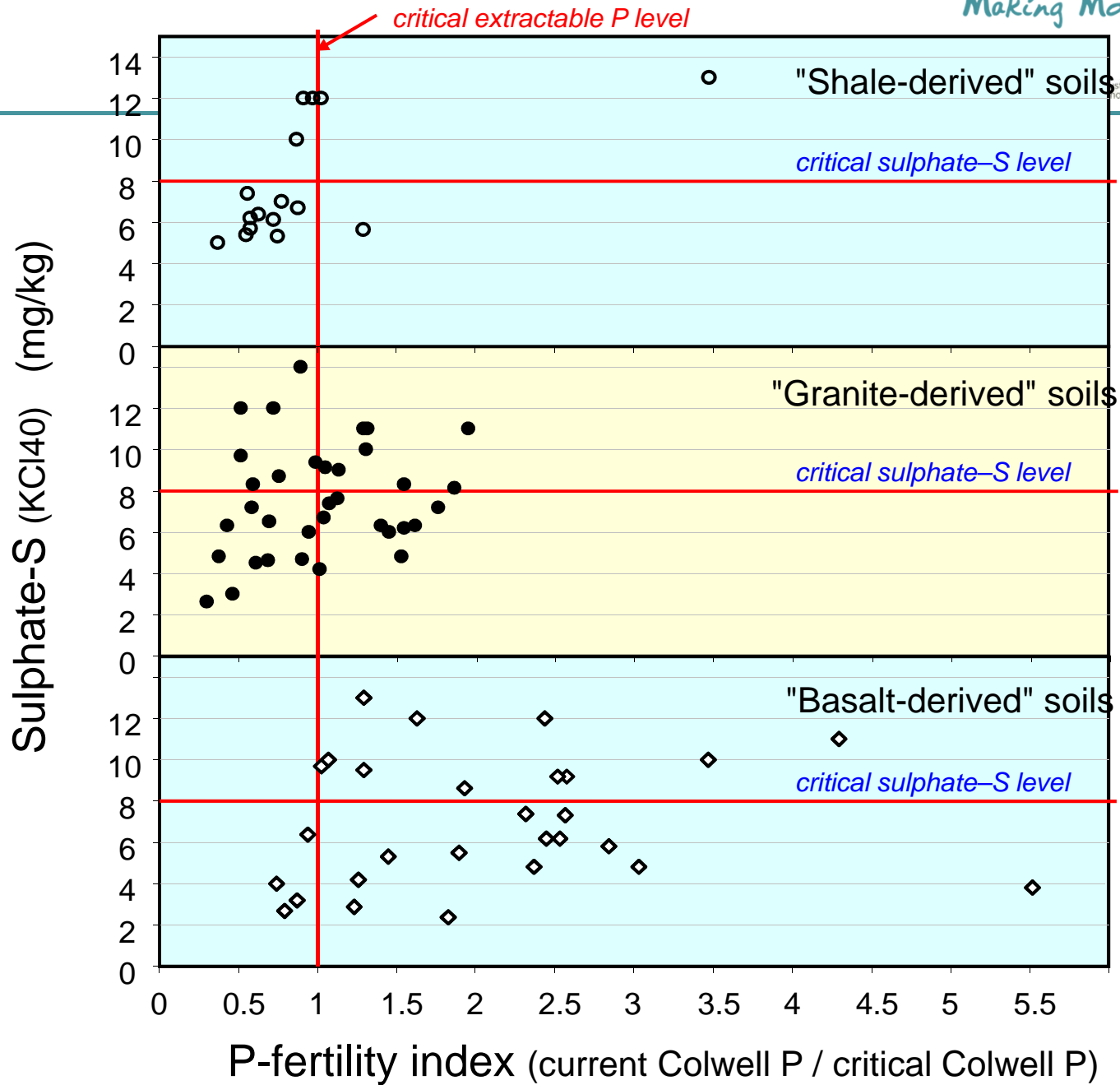
- Know your current stocking rate – estimate potential stocking rate = Potential gain
- What is your current soil P level and what is the critical soil level for your PBI?
- How much P will it take to get to the critical level?
- What will it cost for the fertilizer and the extra stock?
- What is the return on investment from lifting fertility?

- (How does the investment compare with other investments?)

What do District soil tests tell us?

- What is the potential to lift production by increasing soil fertility?
 - 108 soil samples taken in 2010 by Monaro Farming Systems members.
-



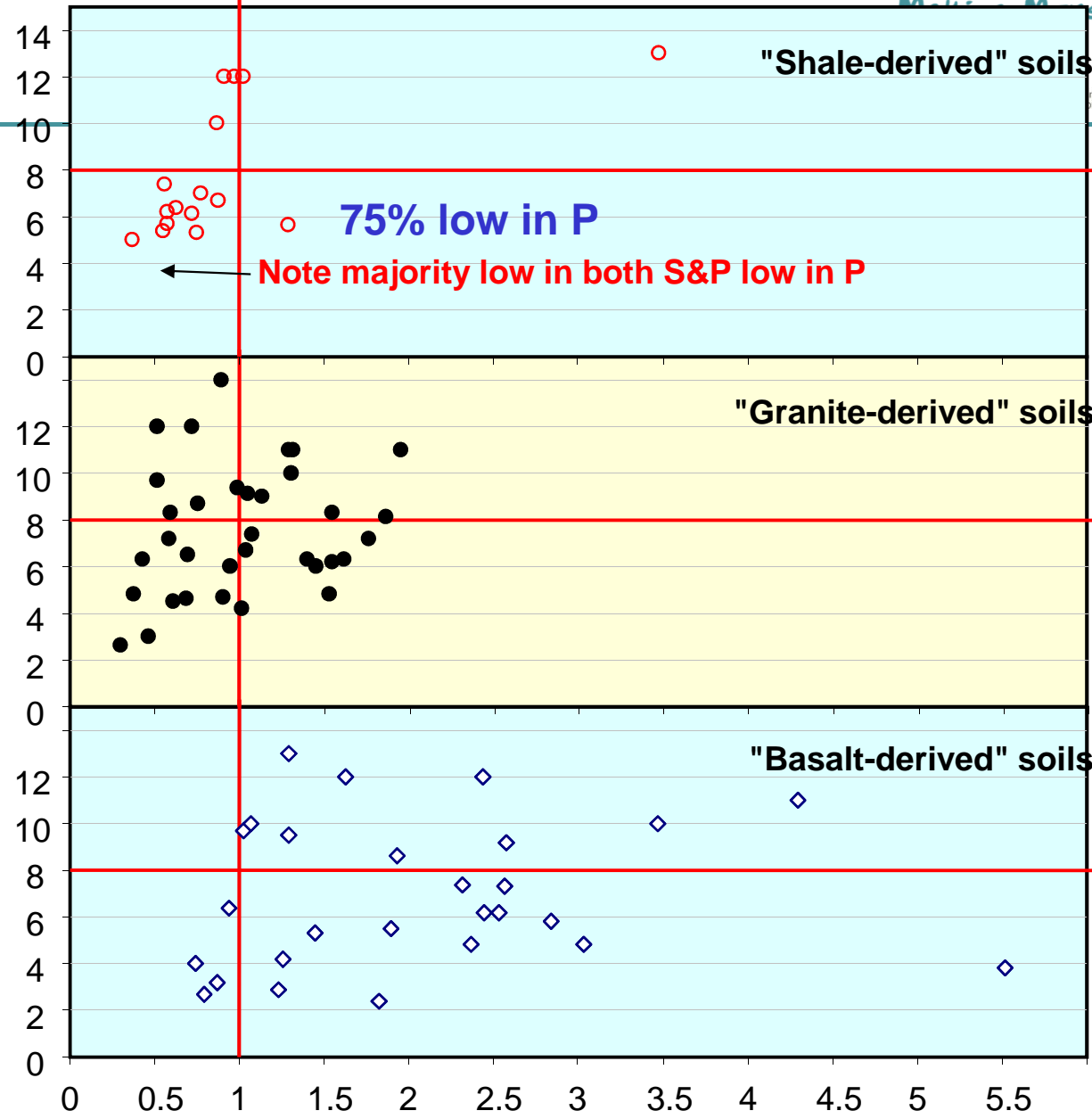


69% low in S

75% low in P

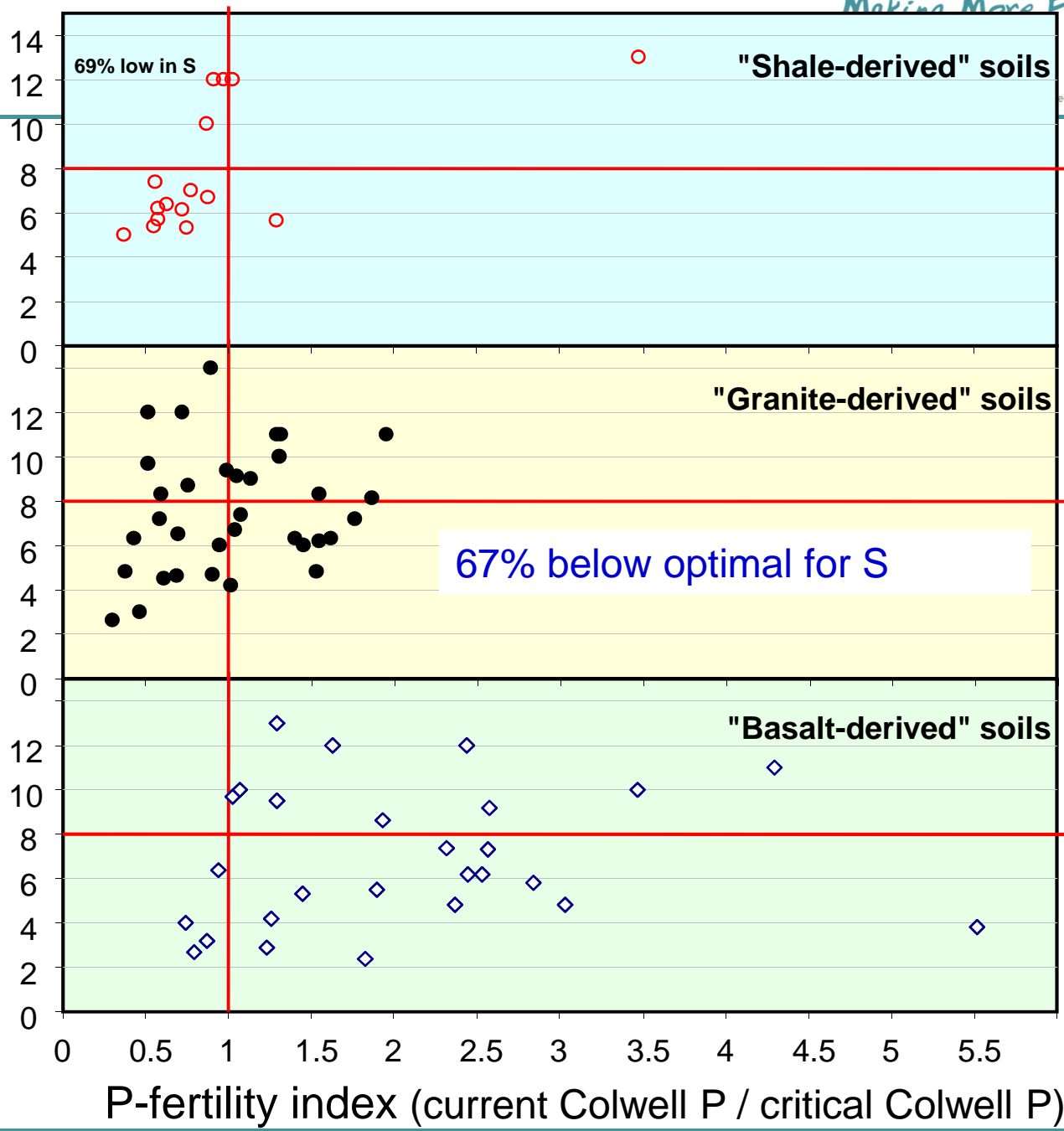
Note majority low in both S&P low in P

Sulphate-S
(KCl40)
mg/kg

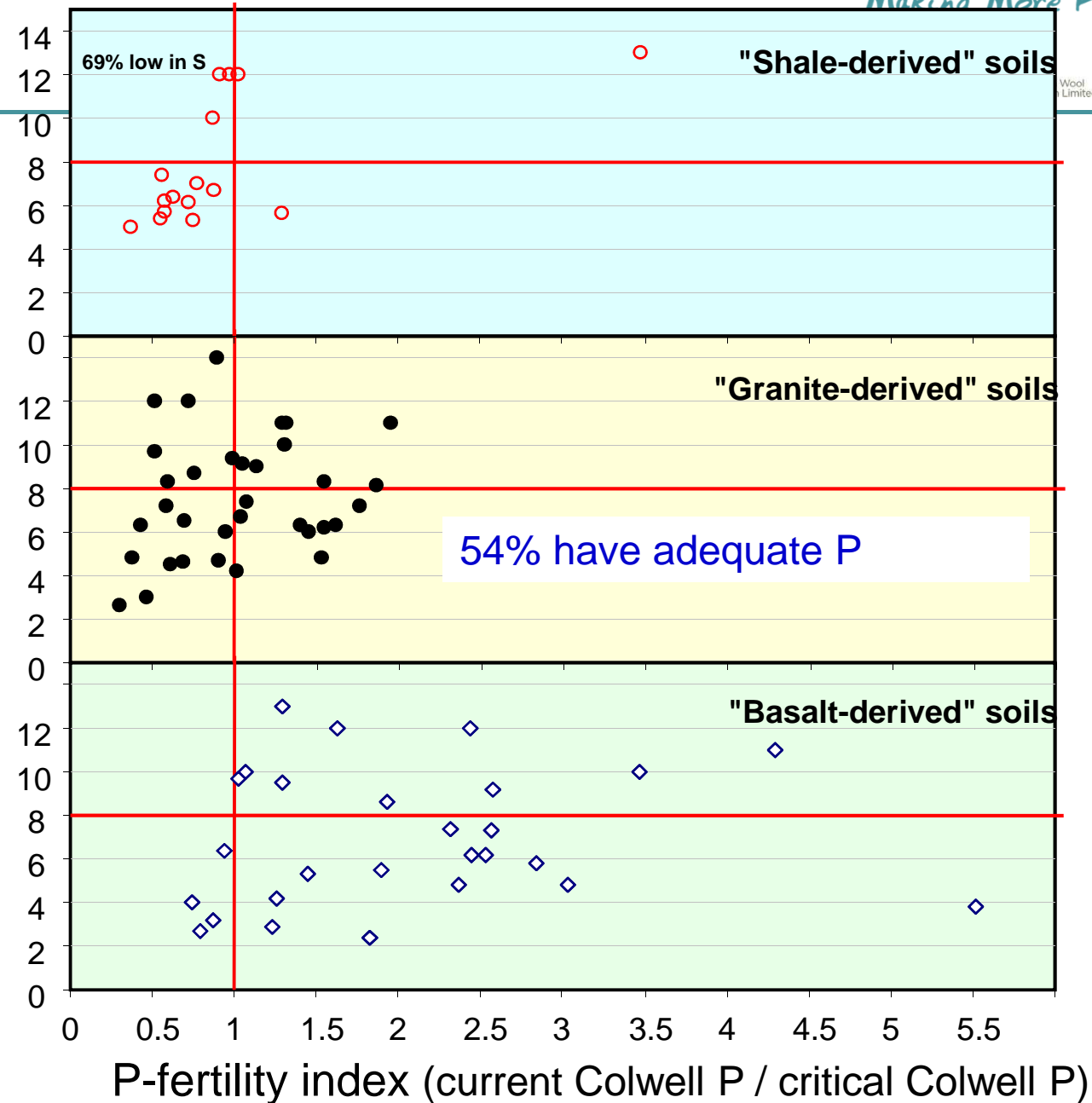


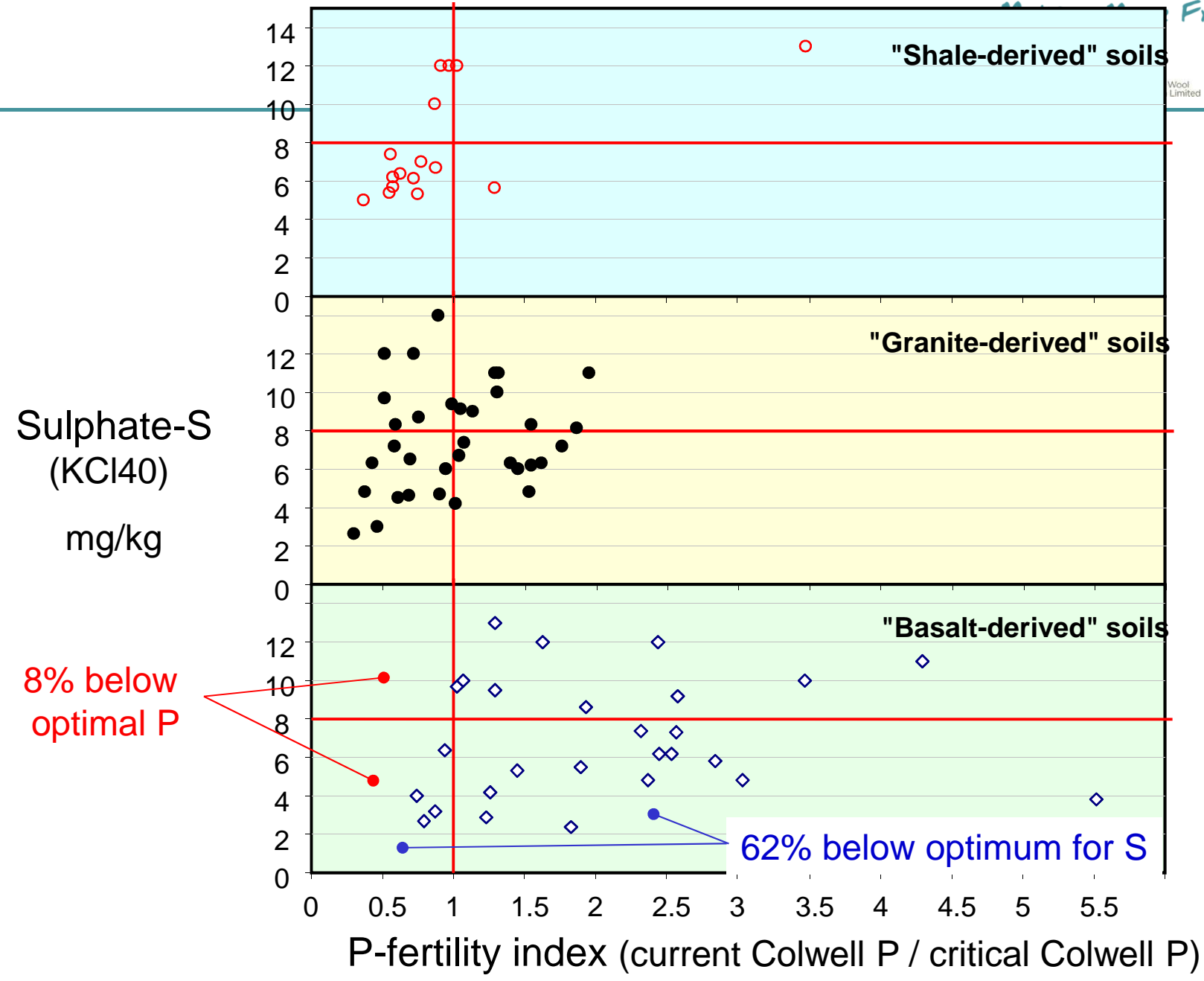
P-fertility index (current Colwell P / critical Colwell P)

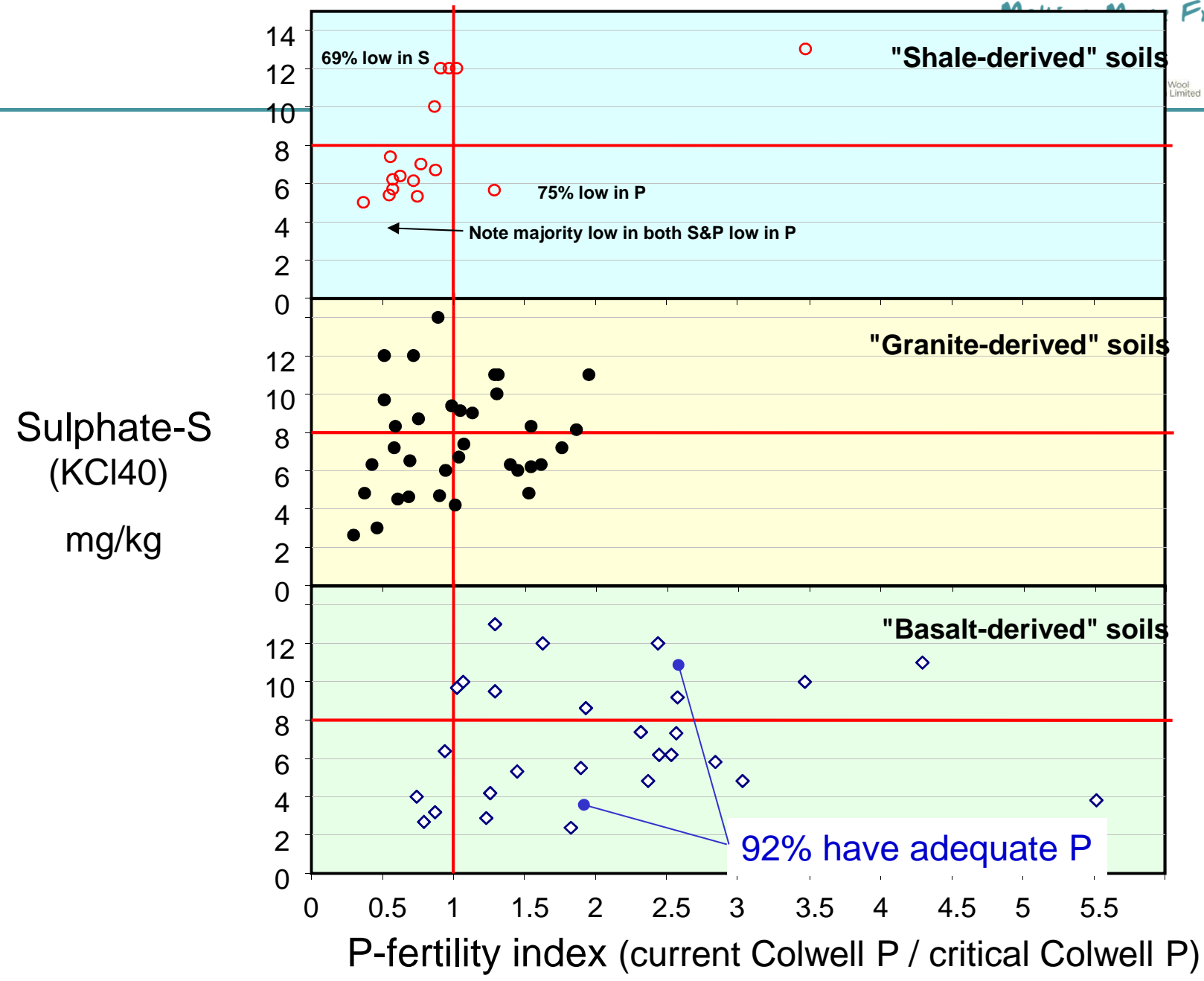
46% below optimal P
Sulphate-S (KCl40) mg/kg

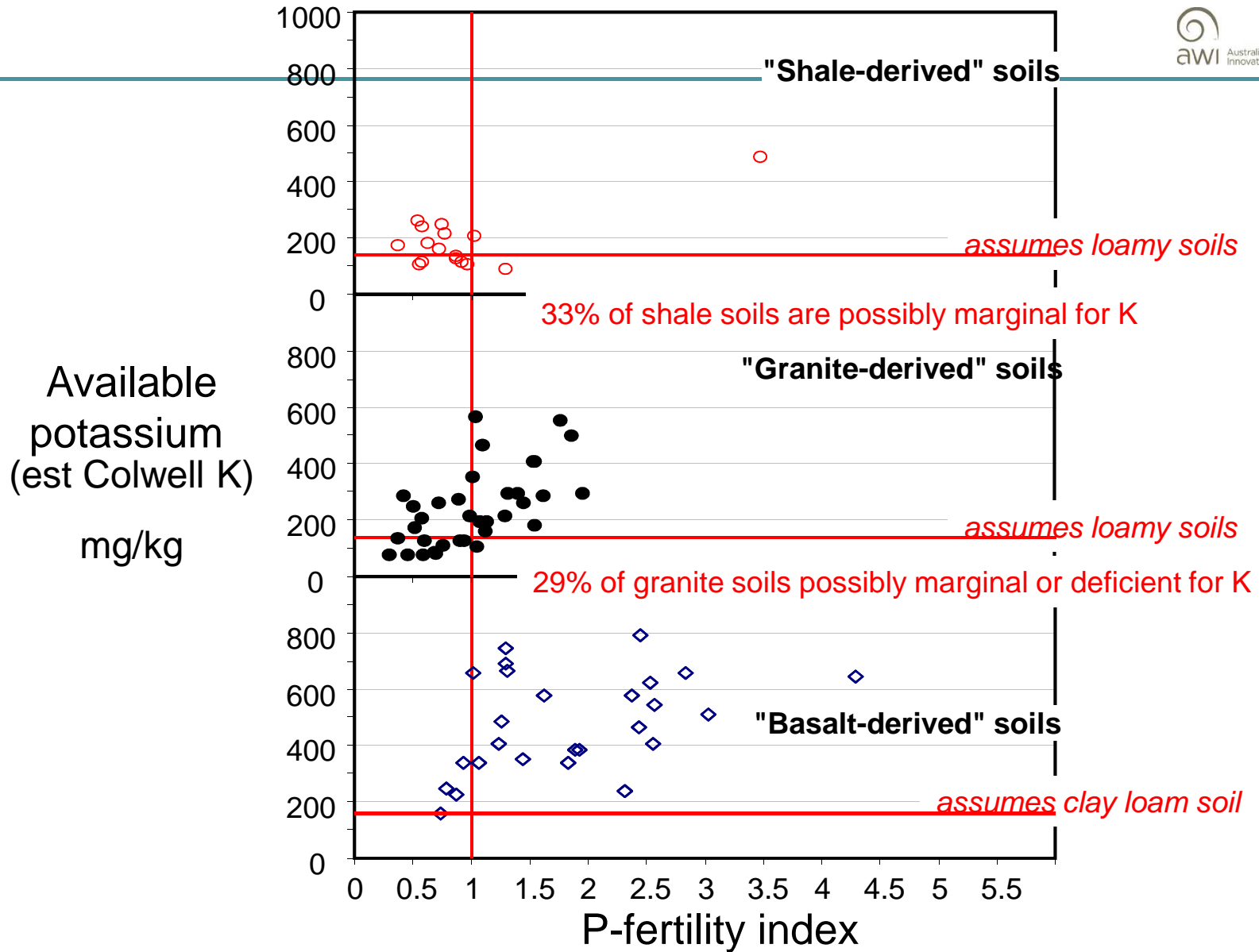


Sulphate-S
(KCl40)
mg/kg

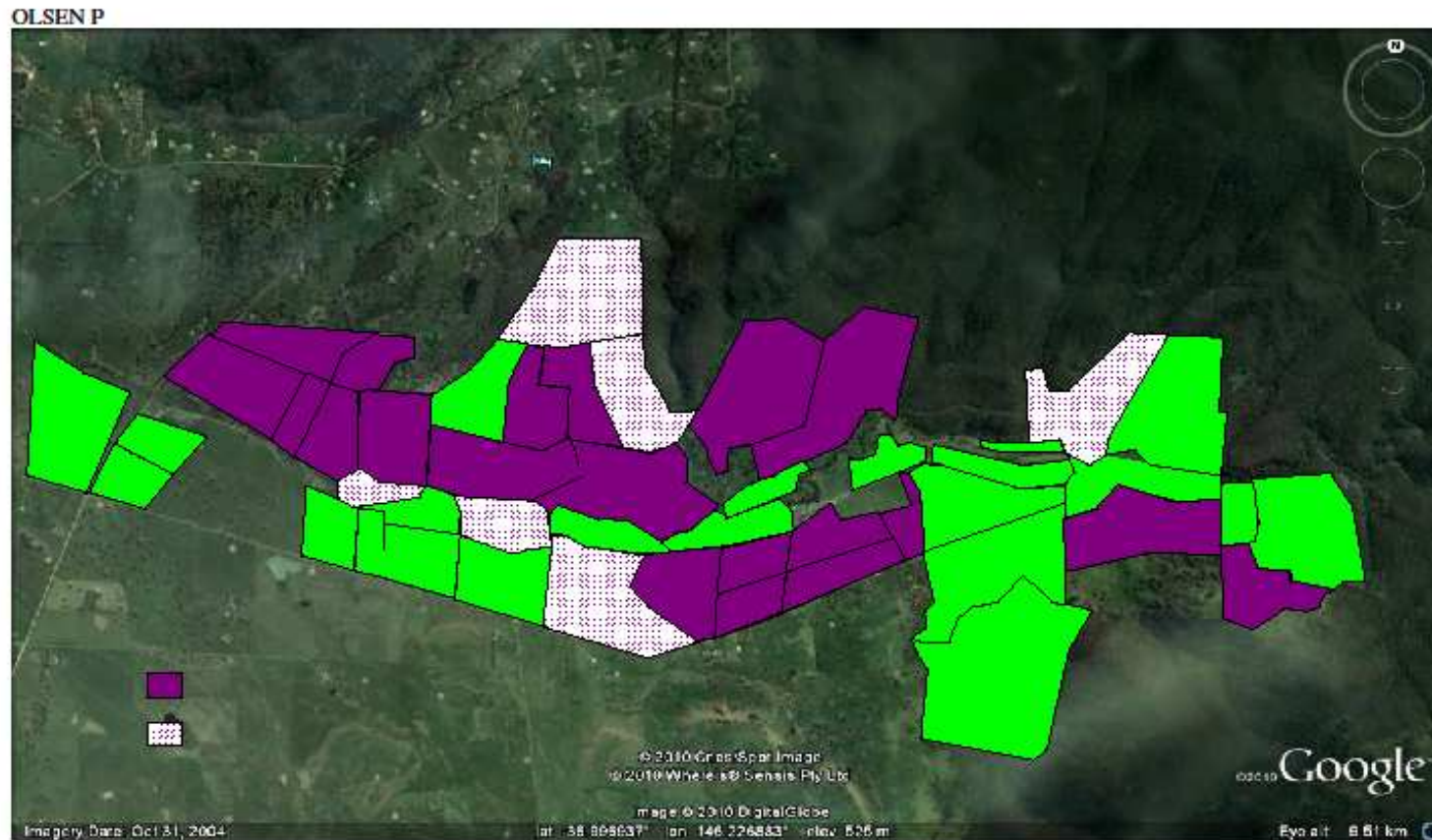








What about variation on a farm?



Adequate P



Marginal P



P deficient

What about within paddock variation?

ANALYSIS	TOP THIRD TOPSOIL	MIDDLE THIRD TOPSOIL	BOTTOM THIRD TOPSOIL	TOPSOIL (Ave)
pH (CaCl ₂)				4.3
Phosphorus (Olsen)				18.4
Potassium (Colwell)				146.7
Sulphur (KCL40)				10.9
Magnesium (Exch)				0.39
Aluminium % of cations				16.7%

What about within paddock variation?

ANALYSIS	TOP THIRD TOPSOIL	MIDDLE THIRD TOPSOIL	BOTTOM THIRD TOPSOIL	TOPSOIL (Ave)
pH (CaCl ₂)		4.3		4.3
Phosphorus (Olsen)		20.3		18.4
Potassium (Colwell)		174.0		146.7
Sulphur (KCL40)		13.3		10.9
Magnesium (Exch)		0.47		0.39
Aluminium % of cations		14.8%		16.7%

What about within paddock variation?

ANALYSIS		TOP THIRD TOPSOIL	MIDDLE THIRD TOPSOIL	BOTTOM THIRD TOPSOIL	TOPSOIL (Ave)
pH	(CaCl ₂)	4.4	4.3		4.3
Phosphorus	(Olsen)	20.2	20.3		18.4
Potassium	(Colwell)	177.0	174.0		146.7
Sulphur	(KCL40)	10.4	13.3		10.9
Magnesium	(Exch)	0.42	0.47		0.39
Aluminium % of cations		10.8%	14.8%		16.7%

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Potassium	(Colwell)	177.0	174.0	89.0	146.7
Sulphur	(KCL40)	10.4	13.3	8.9	10.9
Magnesium	(Exch)	0.42	0.47	0.27?	0.39
Aluminium % of cations		10.8%	14.8%	24.4%	16.7%

What about Pasture Establishment?

PASTURE IMPROVEMENT CALCULATOR



http://www.evergraze.com.au/_literature_64948/Pasture_improvement_calculator

Pasture improvement calculator

- Know your current stocking rate – estimate potential stocking rate = Potential gain
- Will you get benefit from improved feed quality?
- What will it cost you to sow down a pasture?
- Will you lose any production in the year of sowing?
- How long will it take to get to the potential stocking rate?
- What will be the cost of the extra stock?
- What is the return on investment from sowing down?

Key Messages

- Focus on what gives the best return for the \$ spent
- The right stocking rate is the basis for good levels of production
 - Increased lambs/ha, increased wool/ha and increased meat/ha
- The major driver of stocking rate after rainfall is soil fertility.
- There is large variation in soil fertility
- Don't fertilize where it is not needed.
- Comprehensively soil test and prioritize paddocks on the basis of cost and likely returns to remove limitations
- Use the 5 easy steps