



CarboPhos®



CarboPhos® is unlike any Phosphate fertiliser you have seen or heard about in New Zealand

Growing our future

Farmers are increasingly aware of the function and importance of soil in growing healthy pasture. The classic growth swings from traditional fertiliser application are no longer acceptable.

CarboPhos is a product developed to overcome these problems by providing farmers with a solution that will provide complete pasture nutrition.

CarboPhos is a combination of natural whole products that are finely ground, then recombined in a non-acidifying process and granulated to ensure maximum even ground spread of all nutrients

	N	P	K	S	Ca	Carbon	Mg	Humates
CarboPhos	0	9	0	9	20	8.5	0.7	4
Super	0	9	0	11	20	X	X	X
DAP	18	20	0	1	X	X	X	X

	Carbohydrates	Sodium	Silicon	Iron	Molybdenum	Selenium	Boron	Zinc
CarboPhos	✓	✓	✓	✓	✓	✓	✓	✓
Super	X	X	X	X	X	X	X	X
DAP	X	X	X	X	X	X	X	X

What are the benefits of CarboPhos?

- **Trials indicate CarboPhos can be applied at half the rate of superphosphate** saving carting, spreading costs and reducing phosphate applied so nutrient budgets (Overseer) can be met.
- **Non acidifying** CarboPhos is not acid treated in manufacture and does not produce an acid chemical reaction on application that kills soil biology, the whole product has a pH of 6.8
- **Granulated fertiliser** (2-4mm) that can be applied evenly and accurately with conventional spreading equipment.
- **Slow release** reducing leaching and allowing longer assimilation time for plants and soil matter.
- **Finely ground** increasing surface area and aiding mineralisation
- **Low water solubility** reducing leaching and allowing a wide application window. Application prior to or during a rain event will make no difference.
- **Soil conditioner** reducing the effects of compaction improving soil nutrient holding capacity, water retention and soil aeration, providing a healthy habitat for soil microbes and other soil biology
- **Biological food** feeding soil biology, increasing biological numbers and activity increasing mineralisation of essential plant nutrients
- **Environmentally sustainable** and delivering most essential elements, micronutrients as well as Carbon and Humates.

"I don't mind how much fertiliser you choose or can afford to apply, but I do care that when you apply P, you apply CarboPhos because, in my opinion, you are doing the best you can for your soil, within the budget available."

Chris Coplestone, The Growing Group Ltd

Trial Results to Date:

The Growing Group started trials with CarboPhos Vs Superphosphate in September 2013.

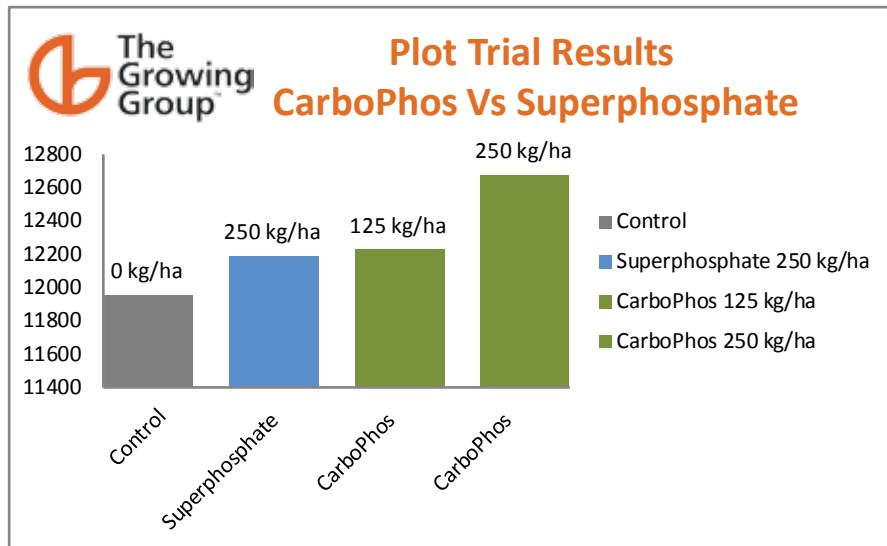
The existing soil was fertility tested with the following results; P 21, K 11, S 2, pH 5.9.

The plot trial consists of five replications for each treatment in 3x2 meter plots.

The strip trial consists of three strips 3x15 meters.

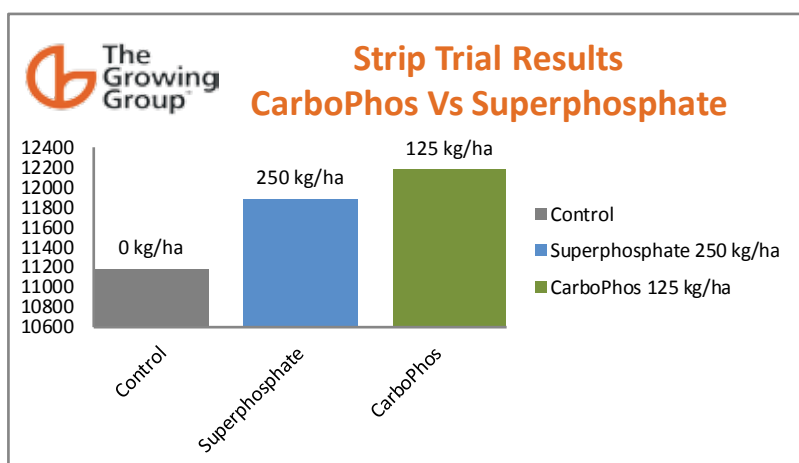
Since the start of the trial six dry matter measurements have been taken commencing 2nd November 2012 to 6th June 2013.

The trial was irrigated through the dry summer.



Findings

- It appears a half rate of CarboPhos is delivering as much dry matter as a full rate of Superphosphate.
- Initially all treatments performed similarly with a slight advantage to Superphosphate.
- The CarboPhos treatments have now surpassed Superphosphate.



Conclusion

The trial results appear to indicate CarboPhos will produce the same quantity of Dry Matter as Superphosphate when applied at half the rate of Superphosphate.