

PhotoMax (PM) – Dairy Trials

Nitrates reduction - Quality increase in pasture



PhotoMax

is a specially designed combination of Biodynamic preparations that has shown, via HortResearch testing, to increase plant photosynthesis by approximately 20%. Further testing has shown increases in dry matter (in kiwifruit) and a reduction in nitrate levels in dairy pasture, during low light periods.

From the Executive Summary of the HortResearch report

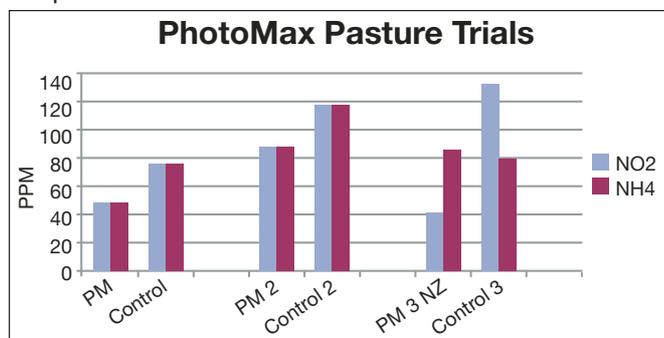
'PhotoMax' consistently increased the rate of leaf photosynthesis, measured one or two days after treatment. This increase was in the order of 20% compared to a water-treated control.'

In 2007 we began exploring the effect of PhotoMax on dairy pasture. Graph one shows the results achieved from two trials in the UK and one in NZ. They showed between a 30% and 60% reduction in nitrate levels in pasture after PhotoMax had been applied.

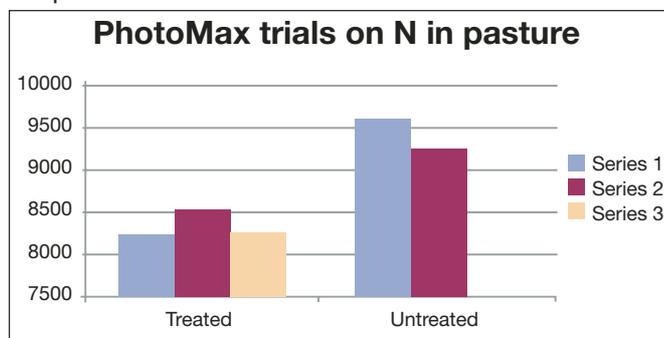
Our trials continued this Autumn with further positive results. During April of this year we have had a set of trials put in place in co-operation with Dairy NZ scientists. This trial is for repeats spread over a paddock that has come out of maize and is back in grass with usual nitrogen application for the task. The trials are performed before the cows are put back onto the pasture. The first samples have been taken two weeks after the application of PhotoMax. (Graph two)

These results are showing an average of a 12% reduction in nitrate in the foliage after two weeks of cloudy and wet weather.

Graph one



Graph two



FIND OUT WHAT DAIRY FARMERS THOUGHT ABOUT PHOTOMAX OVERLEAF

Act Now to increase the quality of your feed

Farmers have found good results with one application, which can be added to any other foliar applications you are doing.

Grower feedback

Following is a brief summary of what we have observed after applying BdMax's PhotoMax. We applied it at 250mls/ha in 2 paddocks. In both paddocks we sprayed the back half of the paddocks, and not the front half. Our observations were:

"There was a definite preference from the animals to graze the 'PhotoMax' areas. This lasted for two grazing periods which were a month apart. "Before the first grazing I also observed a brix difference of 2 points, I didn't measure it before the second grazing. There was 1000 litre increase in production after the 2nd grazing, compared to the previous 2- day pick up. This production subsequently held thereafter so I am unsure as to whether this was due to PhotoMax or seasonal variations. I'm keen to try some more trials with the BdMax products as I think they can aid our dairy farm operation".

R.D - Dairy Farmer - Waikato NZ

"Have just grazed the PhotoMax sprayed pasture and see the cows spent most of the time on the treated side of the paddock. The cows had been having a little bloat but there was no sign of it while grazing that paddock".

.J.B - Dairy Farmer - Waikato NZ

"I used PhotoMax once on some pasture and it lifted the brix reading significantly. It would seem that the greater the light deficit the more effectively it will work".

P.B - Consultant to Dairy Farmers NZ



Act Now to increase the quality of your feed

\$50/lt = \$12.50 per ha per application one or two applications are all that's needed.

BdMax Dairy Spray Program 2009-10

MAY	PhotoMax - photosynthesis and nitrate reduction
JUNE	PhotoMax - photosynthesis and nitrate reduction
JULY	PhotoMax - photosynthesis and nitrate reduction
AUGUST	E7 100mls 3x weekly on yard to flush down. Daily for direct spray, weekly for sump system Photomax - photosynthesis and nitrate reduction
SEPTEMBER	Etherics 1000 - on area shut for silage / hay SilicaMax - to harden plants for the summer
OCTOBER	Etherics 1000 - on area shut for silage / hay
NOVEMBER	SilicaMax - one week before mowing. E9 - after silage hay or grazing
DECEMBER	SilicaMax - one week before mowing. E9 - after silage, hay or grazing
JANUARY	Holiday
FEBRUARY	Etherics 1000 after autumn rain.
MARCH	Etherics 1000 after autumn rain. SilicaMax - in the week before grazing
APRIL	PhotoMax or E15 for low P. high K. or pasture pulling

These spraying suggestions are what CAN be used. You should choose what is best for you and when.

For further questions or support please contact BdMax,

Etherics 1000 is all of the biodynamic preparations 500-507 in one safe, balanced invigorating spray for plants and soil. It has been shown to speed up soil development and composting while strengthening the natural pest and disease resistance of plants.

SilicaMax is commonly understood to harden and strengthen plants. This aids fungal control, nutrition, ripening, enhancement, keeping qualities and drought resistance.

PhotoMax has been shown to increase photosynthesis, which provides significant benefits for plants during low light periods.

E7 has shown marked reduction of smell, reduced crusting, even distribution of solids throughout the pond and better utilisation of nutrients when applied to pasture.

E15 improves activation of calcium and phosphorous

E9 increases humus leads to better water holding capacity.



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