



How many acres does it take to feed your cows? Dairy Max products will help you feed more cows on fewer acres.

Maximize milk production and profitability with the DairyMax program from CanGrow. We can help lower your production costs per litre by improving fibre digestibility. We also lower cost per tonne by increasing tons per acre.

Application of **AlfaMax** foliar spray over a 12 year period increased production by **1.01 tonnes/acre**, with nearly **990 more litres of milk/acre** on average.

### 14 Year Average Alfalfa Trials Canada & US

	Control DM tonnes	AlfaMax DM tonnes	% Change tonnes	Milk L/acre Control	Milk L/acre AlfaMax	% Change Milk/acre
14 year avg	4.92	5.82	+18.23%	5,414	6,426	+18.62%

  

	Control	AlfaMax	Tonnes change	Net \$ return hay/acre		Control	AlfaMax	Litre Change	Net \$ return/ac milk
14 yr avg at 12% moisture	5.59	6.61	+1.02	\$269.08	14 yr milk L/acre	5,414	6,423	+1008	\$756.08

Net return based on \$264/tonne hay and \$0.75/litre milk

#### Features:

- ◆ Apply on stubble after each cutting
- ◆ Can be applied with herbicides or insecticides

#### Benefits:

- ◆ Stronger roots and crown
- ◆ Activation of dormant buds
- ◆ Increase number of stems per crown
- ◆ More side branches and more trifoliates
- ◆ Earlier maturity
- ◆ Improved fibre digestibility
- ◆ Extended stand longevity

#### Take Home Messages:

- ◆ Significant return on investment over the 14 year average
- ◆ Over 1 tonne/acre/year increase in hay @ 12% moisture over the 12 year average.
- ◆ 18.5% increase in litres/acre/year over the 14 year average

Over for the philosophy behind using the DairyMax Alfalfa program.

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*DairyMax* Alfalfa program is best when used continually to consistently build the plants' root system, immune system, and the vegetative parts of the plants.

For a farmer this means:

1) We begin with **Green Up** in the spring to stimulate the chemical and biological interactions that occur between the plant and the soil. This improves the cation exchange; the plants' ability to take in nutrients. This in turn increases tonnage but more importantly, digestibility! We are getting the roots off to a good start, stimulating root expansion. Creating more chemical and biological interaction and in a good alfalfa or grass field improving the ecosystem across the entire field.

2) **AlfaMax** is designed to continue this effect between each cutting. A major effect of this is the antioxidant impact. Just think about this plant - it is growing and happy and one day something cuts off all the above ground growth, stripping its ability to make food. After this shock the only thing left is the energy stored in its roots and crown. So the hormone flow switches and causes regrowth to occur. This is a major stress on the plant so antioxidants have a major effect at this time. We also are loading micro and macro nutrients that support the hormone flow.

As the plant recovers, these nutrients help to stimulate dormant buds on the crown, giving a yield increase. Next the foliage provides energy back to the root system causing more root expansion, which helps the plant recover from the next cutting stress more quickly.

3) Putting it to bed. After our last cutting of the year, and as close to killing frost as possible, we apply a dormancy spray. The objective is to direct sugars to the root system and crown for storage and to give the soil microbiology a good feeding before they go dormant. Any unused sugars at this time, or anytime throughout the year, are returned to the soil as cations.

A farmer can step into this system at any time and have success, but success builds on itself. Maintaining continued applications give the best results both in the field and in the barn.