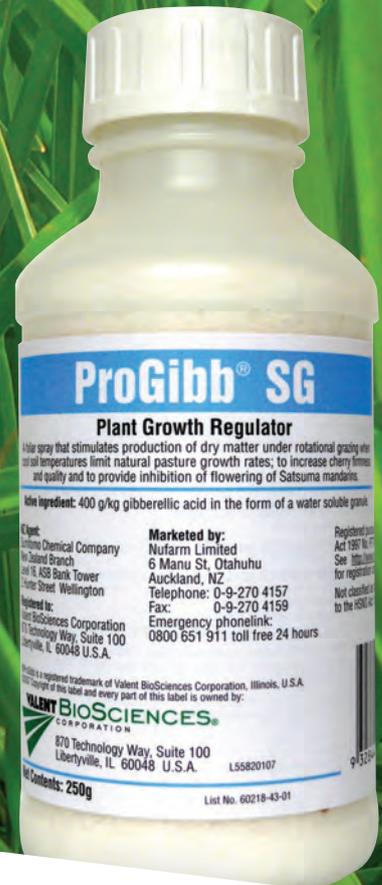


BOOST PASTURE PRODUCTION WITH ProGibb® SG



ProGibb® SG
Plant Growth Regulator

A foliar spray that stimulates production of dry matter under rotational grazing when soil and soil temperatures limit natural pasture growth rates; to increase cherry firmness and quality and to provide inhibition of flowering of Satsuma mandarins.

Active ingredient: 400 g/kg gibberellic acid in the form of a water soluble granule.

Client:
Lansdown Chemical Company
New Zealand Branch
Level 16, ASB Bank Tower
Rutherford Street, Wellington

Registered to:
Valent BioSciences Corporation
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Libertyville, IL 60048 U.S.A.

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Registered under
Act 1987 No. 77
See instructions
for registration
Not classified as
to the HSE/C

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Net Contents: 250g

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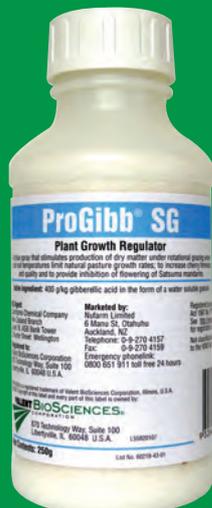
Grow a better tomorrow.

What is ProGibb® SG and how does it work?

ProGibb SG is a plant growth regulator for pasture. ProGibb contains gibberellins which naturally occur in most plants and stimulate cell elongation or growth. Applying ProGibb after grazing, when the pasture's natural gibberellin levels are very low, stimulates a rapid growth response.

Key benefits

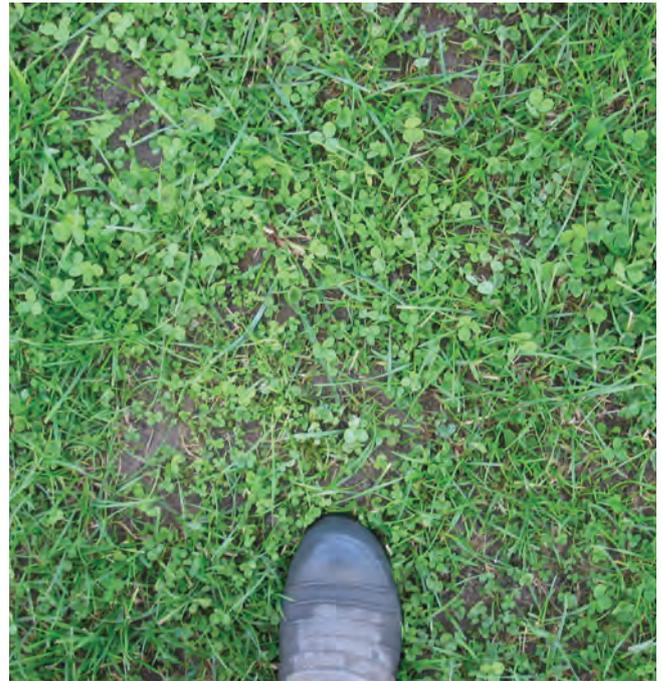
- > Boost dry matter yield in ryegrass and clover pastures by 30-60% within 3 weeks of application
- > Improve milk solids production
- > Improve livestock performance and condition
- > Proven and extensively tested under NZ conditions.



What results can I expect?

Over 50 replicated New Zealand trials have proven that ProGibb results in an additional 30-60% more pasture dry matter (DM) within a three week period.

For example if a paddock was currently growing around 30kgDM/ha/day, with the use of ProGibb you could expect an increase to 39-48kgDM/ha/day or an extra 189- 378kgDM/ha within 3 weeks. After 3 weeks the pasture's growth rate will return to normal.



UNTREATED



TREATED

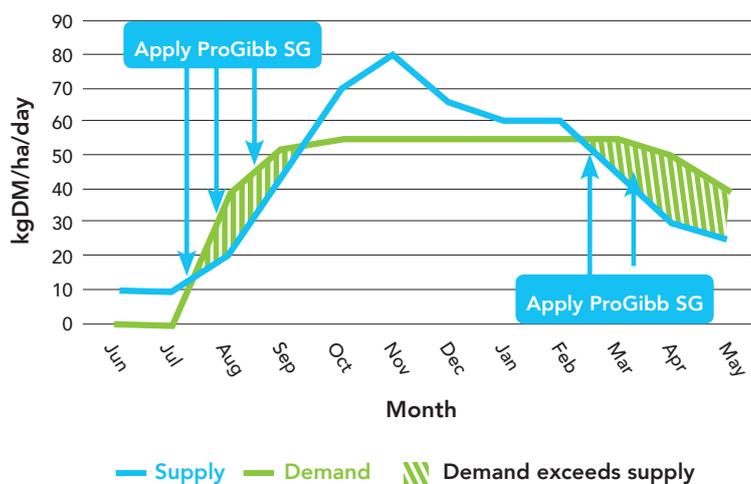
PROGIBB SG APPLIED 2 DAYS AFTER GRAZING,
PHOTOS TAKEN 21 DAYS AFTER APPLICATION.

How will my farm benefit from ProGibb?

Every farming operation is different. The obvious benefit of more dry matter is increased milk production but the key to getting the most out of ProGibb is to use it as a pasture management tool when demand exceeds supply as shown in Figure. 1.

The table below highlights examples of how you could use ProGibb to benefit your operation.

Figure 1:
Example of Annual Feed Supply and Demand Curve (cows wintered off farm)



| AUTUMN | SPRING |
|--|---|
| <ul style="list-style-type: none"> > Apply late in the autumn to boost pasture cover going into winter. > Extend milking without sacrificing cow condition. > Take the pressure off supplementary feed requirements. > Plan to renew more of your pasture by using ProGibb to cover the down time while your new pasture is getting established. | <ul style="list-style-type: none"> > Get a head start on the season and shorten your rotation earlier. > Use the extra dry matter in the round to take more paddocks out of the rotation for silage or summer crops. > Use the extra DM to maintain cow condition going into mating. > Get paddocks that have been cut for silage back into the rotation earlier by applying ProGibb after cutting. |

What are the key things to be aware of before applying ProGibb?

GRAZE PRIOR TO APPLICATION

Grazing the pasture before ProGibb is applied is critical. For dairy pastures ProGibb must be applied anytime during the first five days after the cows leave the paddock. For sheep pastures with lower residuals ideally apply ProGibb within 3–5 days of grazing.

PASTURE NUTRIENTS AND MOISTURE

Growing additional dry matter means the pasture requires additional nutrients and moisture to support that extra growth. ProGibb is not a substitute for nitrogen and should not be applied to nitrogen deficient pasture. In fact, applying both nitrogen and ProGibb to pasture results in dry matter increases that are both independent and additive.

WHEN IS THE BEST TIME TO APPLY PROGIBB?

Pasture must be in a 'growing state' for ProGibb to give the most beneficial response. Typically this is on the shoulders of the season. Warmer regions may be able

to use ProGibb success-fully in winter whereas in colder regions the spring/early summer and later summer/autumn will be ideal.

CONSECUTIVE APPLICATIONS

ProGibb can now be applied for 3 or even four consecutive grazing rounds. It is important to match the nutrient requirement of pasture to production under a consecutive application programme.

NEW PASTURE

ProGibb is registered for use on new pasture. New pasture can now be treated 4 to six months after sowing or the following growing season.

ANNUAL OR ITALIAN RYEGRASS

Short term ryegrass varieties can be treated with ProGibb. The maximum dry matter response occurs within two to 3 weeks of application due to their more vigorous growth. These pastures can be grazed earlier than perennial pasture varieties treated with ProGibb.

Common ProGibb questions:

IS THERE A DIFFERENCE IN THE FEED QUALITY AND FOLIAGE MINERAL LEVELS OF ProGibb TREATED PASTURE?

No – a number of independent lab trials showed there was not any significant difference between the treated and untreated pasture even after 4 consecutive applications.

WILL THERE BE A LAG IN PASTURE GROWTH AFTER USING ProGibb?

Assuming the pasture is not deficient in any important nutrients or minerals and moisture there will **not** be a lag in pasture production after the pasture has been grazed.

A trial undertaken on a Waikato farm showed that even after 4 consecutive applications there was no lag in pasture growth after grazing compared to the untreated pasture. In fact, after 4 consecutive applications this pasture had grown an extra 1694kg/DM than the untreated pasture over 11 weeks.



RATES & APPLICATION

| USE RATE | APPLICATION METHOD | RAINFASTNESS | OPTIMUM APPLICATION TIMING |
|--|--------------------|---|---|
| 20g/ha of ProGibb plus 25ml/100L of Contact™ Xcel in 100-200L of water/ha. | Boom spray | Do not apply if rain is likely within 2 hours | Dairy: Apply within 0-5 days after grazing (ideally within 3 days) Sheep: Apply within 3-5 days after grazing If pasture has been grazed hard allow it to freshen. There must be green leaf present for uptake. |

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