AGRIFERT NS32

QUICK REFERENCE GUIDE

Agrifert NS32 is Urea and Ammonium Nitrate (UAN) with an added Sulphur blend containing 32% Nitrogen and 4% Sulphate Sulphur in a strong extracted Kelp base.

AgriFert NS32 can be used as the main nitrogen source for pasture, crops and horticulture with benefits of improved nutrient uptake, increased yields and plant and soil health.

Application:
It is a free-flowing liquid concentrate that dissipates easily into water making mixing easy, simple to use and apply.

- Apply **AgriFert NS32** with **Gibberellic Acid** to pastures in the cooler months.
- Add weed control chemicals to **AgriFert NS32** to get a “WEED n FEED” affect.
- Assist crop recovery when using Fungicides and Insecticides.

Delivery:
Delivery cost is included in the purchase price of the product, and this is to a farm or orchard, merchant store or selected yard or depot.

Made in New Zealand.

Testing:
Blue Pacific Minerals is committed to research on existing or newly developed products, with both independent and in-house trials undertaken.
On going In- house Dry Matter Growth trials are being run to establish how our products compete against others in the NZ marketplace.
Independent trial data is available on AgriFert NS32 and Gibberellic acid versus other liquids and solid fertiliser products with Gibberellic acid.

TYPICAL ANALYSIS %w/v			
N	P	K	S
32.4	0	0	4.7

Agrifert products are available from your local farm merchant.
Blue Pacific Minerals Area Manager Team operates throughout NZ.

August 2024

EFFECTIVE NITROGEN USE TRIAL

LOCATION & DATE OF TRIAL: HINDS, CANTERBURY. SEPTEMBER 2023

Blue Pacific MINERALS
Agriculture
CLEVER by NATURE

August 2024

INDEPENDENT TRIAL CONDUCTED BY PASTURE FIRST RESEARCH COMPANY:

TRIAL OUTLINE:

Evaluation of the impact of **Agrifert® NS32™** with **Gibberellic Acid** against traditional nitrogen sources with Gibberellic Acid on pasture yield in cool climate conditions, focusing on nitrogen utilisation units.

SNAPSHOT OF FINDINGS AT 22 DAYS:

- **Forage Efficiency (DM Grown)** - **Agrifert NS32 plus Gibb** grew 2,378 KgDM at 22 Days
- **Nitrogen Use -** A total of 4.8Kg of N per Ha was applied, 75% reduction compared to other treatments.
- **Economics** – Total Cost of 21 cents per KgDM for **AgriFert NS32** + Gibb This was 16% less than 50Kg Dissolved Urea + Gibb.
- **Comparison to Alternatives** – 80Kg/Ha of SOA + Gibb and 50Kg/Ha Dissolved Urea + Gibb produced similar KgDM/Ha to **AgriFert NS32 + Gibb** but with much higher levels of Nitrogen used.
- **GHG Emissions**– A total of 47Kg/CO2 emissions / Ha was calculated for **AgriFert NS32 + Gibb**, this was a reduction of between 66% & 86% compared to other treatments GHG Emissions - **Agrifert®NS32™ with Gibberellic Acid** grew 2,378Kg/DM/Ha at 22 days.

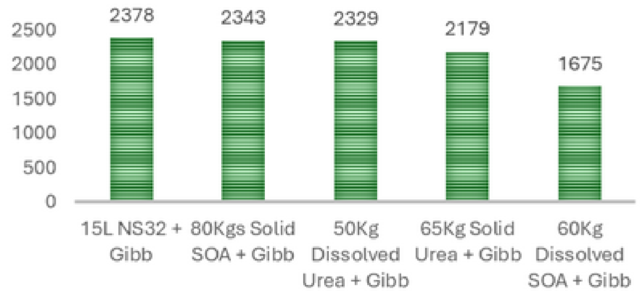
CONCLUSION:

Agrifert® NS32™ UAN, applied at 4.8Kg N per hectare, was as effective as alternatives using 23Kg of N for similar total DM growth.

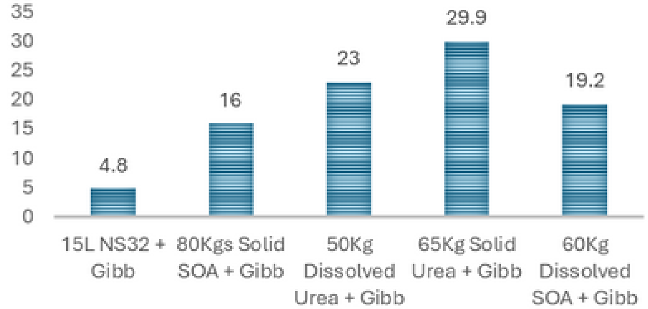
This resulted in a 79% reduction in nitrogen use.

Furthermore, N response per Kg of DM was 495Kg for **AgriFert NS32™** and **Gibberellic Acid** compared to the next best alternative of 101Kg which was 50Kg of Dissolved Urea and Gibberellic Acid.

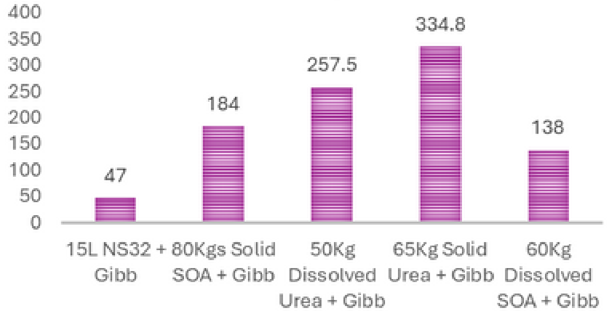
KGDM/HA GROWN OVER 22 DAYS TRIAL PERIOD



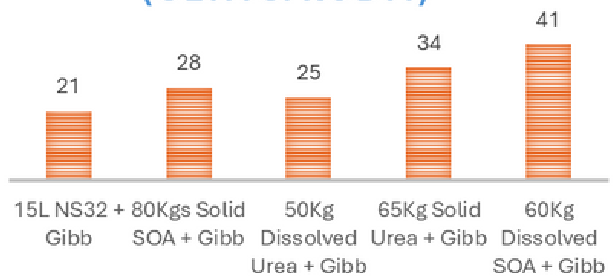
UNITS NITROGEN USED FOR THE TRIAL



TOTAL CO2 EQ/KG PER HA



COST PER KGDM GROWN (CENTS/KGDM)



PUKEKO PLACE FARMS TRIAL

NS32 vs Dissolved Urea

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TRIAL OUTLINE:

Comparing the KgDM/Ha grown between using 17L **AgriFert NS32** vs 50 Kg Dissolved Urea grown under normal farming conditions on a Waikato Dairy Farm at Tokoroa.

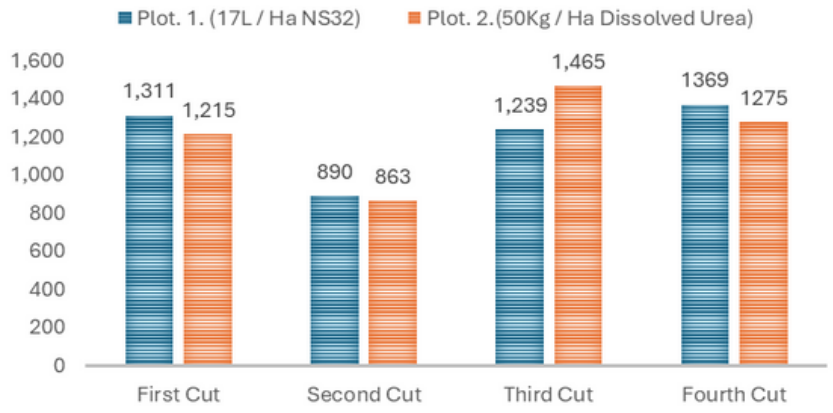
Large plot trial, on an average paddock, with three replicated samples taken from each treated area and then the results averaged out for the three samples.

The farm owner does the applications of fertiliser and cutting of the samples, acting as an independent person for the trial and all testing is done at Hill Laboratories, an Independent Lab in Hamilton.

TRIAL METHOD:

- The paddock was mown to a cover of 1700KgDM/ ha and the first application of fertiliser was applied by the farmer, using his “Tow n Fert” Sprayer on 08.01.2024.
- The first cut samples are taken, at day 25, using a 1 meter square that the farmer places randomly along the 100 meter strip, repeated three times on each strip.
- The second cut was taken on day 28, although scheduled for day 25, heavy rain postponed the samples being taken.
- The third cut was taken early on day 19, due to timing with the farmer requiring the paddock for the cows round.
- The fourth cut was taken on day 22. For this cut, the application of the products were applied combined with Gibberellic Acid. This is typical practice on this dairy farm where Gibberellic Acid is applied with the Nitrogen application, during the months when the temperatures drop.
- After each cut the paddock was grazed off by the dairy herd and then the pasture was allowed to reach approx.1700 KgDM/Ha before the next application of products were applied.

KGDM PER HA GROWN



KGDM GROWN PER UNIT NITROGEN USED