Our promise to you – In the unlikely event of a Donaghys product failing to perform when used as directed, Donaghys will refund the full purchase price of the product concerned.*

*See www.donaghys.com/terms-and-conditions/ for full details.
**ACIDS DAILY PLANT WASH AND SANITISER**

**ECOFLUSH ORGANIC ACID DETERGENT/SANITISER**
- Low use rate (1mL per litre of water)
- High strength acid sanitiser with 50% mixed organic acids
- Zero Quaternary Ammonium Compounds (QAC)
- Suitable for hard or iron contaminated water
- Low foaming

Size: 20 & 200 Litres

Patent No. NZ577699.

**THERMOFLUSH DAIRY ACID DETERGENT/SANITISER**
- New generation technology
- Dynamic formula - 630g/L Phosphoric Acid and 44g/L Glycolic Acid
- Number one in hard water areas
- Unique non-QAC sanitising system
- Non-foaming
- Will dissolve iron-oxide more effectively than other phosphoric/sulphuric blends

Size: 20 & 200 Litres

**POWERFLUSH DAIRY ACID DETERGENT/SANITISER**
- Donaghys most preferred acid sanitiser by New Zealand dairy farmers
- Strong formulation 210g/L Phosphoric Acid and 120g/L Sulphuric Acid
- Biodegradable and not susceptible to microbial resistance
- Very low foaming

Size: 20, 100 & 200 Litres

**G2 DAIRY ACID DETERGENT/SANITISER**
- High strength acid cleaner with non-QAC sanitiser
- 170g/L of Phosphoric Acid and 170g/L of Sulphuric Acid
- Suitable for all water types
- Pre-mixed low foam formula

Size: 20 & 200 Litres

NZFSA approved for use in farm dairies and suitable for hot or cold water.
**ALKALIS FOR PERIODIC REMOVAL OF PROTEIN AND FAT**

**CIRCOMATE POWDER ALKALI DETERGENT**
A heavy-duty chlorinated alkaline detergent formulated to clean stainless steel and rubber surfaces exposed to milk.
- Ultra high strength chlorinated alkali detergent - 600g/kg Sodium Hydroxide and 25g/kg Sodium Dichloroisocyanurate
- Very stable chlorine content
- Suitable for modern high turbulence wash systems
- Very low foaming
- For use as a periodic cleaner in plant and bulk milk tanks
- Excellent economical bomb-wash

**SIZE**
- 25kg

**PROTOSOLV LIQUID ALKALI DETERGENT**
A low foaming liquid dairy detergent specifically formulated for the removal of fats and protein deposits in milking plants.
- High strength chlorinated alkali detergent - 400g/L Sodium Hydroxide and 33g/L Sodium Hypochlorite
- Low foaming & free rinsing
- Excellent soil penetration
- Superior protein and fat removal
- For use as a periodic cleaner in plant and bulk milk tanks

**SIZE**
- 20, 100 & 200 Litres

**GENERAL CHEMICALS**

**HYPO 15 LIQUID CLEANER/SANITISER**
Suitable for general cleaning in the dairy shed and water treatment.
- High strength 15% Sodium Hypochlorite
- Excellent concrete cleaner
- Economical in use (mix 1:3 with cold water)
- Removes dairy soil from walls, floors and pipe-work
- May be used as a booster when mixed with alkali wash through the plant and bulk milk tank
- Superb in breaking down protein deposits
- For use in water treatment including chlorination of swimming pools

**SIZE**
- 20 & 100 Litres

**NEUTRAL DETERGENT**
Suitable for both commercial and domestic applications including general purpose cleaning.
- High strength neutral pH detergent
- General cleaning around the dairy shed
- Excellent on calf feeding equipment
- Free rinsing
- Gentle to use – no harsh chemicals
- Add to bulk milk tank cold water pre-wash rinse for superior results
- Excellent for hand washing in the kitchen and household

**SIZE**
- 20 & 100 Litres

**DAIRY RUBBERWARE**

**PROLINER DUAL 22**
Donaghys ProLiner Dual 22 is a 22mm teat end, round dairy rubber milking liner, designed as a dual fit to suit both short and long standard shells and both 10mm and 12mm claws.
- 22mm diameter teat end
- 9mm internal diameter tail end to suit both 10mm and 12mm claws
- Superior design with reinforced “shut-off” and “bumper” areas
- 2 tension rings to suit both short and long standard shells
- 3,000 milkings lifespan

**SIZE**
- Available in packs of 4

**AIR AND MILK TUBING**
Cost effective hybrid rubber or PVC (transparent) air and milk tubing.
- Withstand operating temperatures of -40°C up to 80°C (Hybrid)
- Superb chemical resistance and are lightweight
- Perfect transparency over time (PVC)
- Maximum resistance to clogs and kinks

**SIZE**
- Available in range of common sizes
**UDDERCONTROL TEATSPRAY**

Contains Chlorhexidine Gluconate for use in the control of mastitis in dairy cattle and as an aid in the control of teat cracking and chapping.

- Improved and increased amount of emollients (320g/L or 32%)
- Contains new generation surfactant to improve the active ingredients' penetration through the skin/teat
- Contains additional disinfecting agent (ethanol) to provide disinfecting properties without irritating skin
- Effective against mastitis causing bacteria

**Sizes**
- 20 & 200 Litres
- 1,000 Litres available on request

Registered Pursuant to the ACVM Act 1997 No. A10782.

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**UDDERMATE TEATSPRAY**

Designed to kill mastitis causing bacteria while maintaining teat skin condition.

- Chlorhexidine based teat sanitiser
- Active ingredient 44g/L Chlorhexidine Digluconate
- Contains 230g/L Glycerine to maintain teat skin condition
- 1:9 use rate will provide excellent kill of bacteria
- Very gentle on operator and cow

**Sizes**
- 20, 100 & 200 Litres
- 1,000 Litres available on request

Registered Pursuant to the ACVM ACT 1997 No. A006974.

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**UDDERSAN TEATSPRAY**

Designed to prevent teat cracking and chapping and to kill organisms that cause mastitis.

- Iodine based 20g/L mastitis control
- Contains added emollients (185.5g/L)
- Contains povidone for extra protection against teat cracking and chapping
- Fast kill of mastitis causing organisms
- 1:3 to 1:9 mix for economical use

**Sizes**
- 20, 100 & 200 Litres
- 1,000 Litres available on request

Registered Pursuant to the ACVM ACT 1997 No. A006875.

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**EMOLAN TEAT CONDITIONER**

A teat conditioner specifically designed for cow teats.

- Contains blend of superior cosmetic grade emollients
- Contains ethoxylated lanolin
- Suitable for adding to all teatsprays

**Sizes**
- 20, 100 & 200 Litres

Registered Pursuant to the ACVM ACT 1997 No. A010833.
**ALERT TAIL PAINT**

Alert aerosol tail paint offers a unique formulation for guaranteed performance to improve mating management without irritation to cows.

- Highly visible, bright colours available in red, green, blue, orange and yellow
- Long lasting with outstanding performance in both wet and dry conditions
- Use to enable better mating management and a concentrated calving pattern
- Packaged in 12 cans per carton

**SPRAYLINE**

Sprayline is a market leading scientifically developed formulation for use within sheep, lamb and cattle systems to enable better stock management and identification. Also widely used as a multipurpose dairy cow flank and udder marker.

- Fully scourable meeting all MPI requirements
- Vivid long lasting colours
- Can be used in all weather conditions
- Available in red, blue, green, orange, yellow, purple*, & black*

**DONAGHYS TAIL PAINT**

Donaghys uniquely formulated liquid tail paint has been proven for years as a reliable tool for detecting heat in cows and a practical solution for managing herd mating.

- Six bright, non-fading colours in red, green, blue, orange, yellow & pink
- Demonstrates when cows are on heat/ready for insemination
- The oil based paint formula lasts up to 30 days in suitable conditions
- Multiple colours allow you to differentiate failed inseminations
- Easy to apply and a choice of 1 litre bottles with self-applicator brush cap or 1 & 10 litre pails
General Purpose Rope

- Strong rope
- High abrasion resistance
- Easy to work and knot
- UV stabilised
- Chemical resistant

Back Gate Braid

- Durable polyester braid
- Soft feel for handling
- Can be heat sealed for neat finish
- Resists knotting and tangling

Cup Remover Braid

- Strong polyester braid
- Lightweight
- Abrasion resistant
- UV stabilised

Pull Cords

- Strong braid
- Lightweight
- Minimal stretch
- UV stabilised

Lead Ropes

- Soft feel
- Easy knotting
- Attractive gold fleck
- Burn resistant on hands

With over 130 years experience Donaghys offer a world class range of Natural and Synthetic Ropes, either manufactured in our Dunedin plant or from exclusive supply partnerships where products are engineered to our specifications around the world.
**CHEMICAL DISPENSER**

Electronic chemical dispenser specifically designed with materials suitable for a wide range of on farm cleaning chemicals. Ideally suited for the accurate measure of Donaghys liquid acid & alkali hygiene products used for daily plant and silo washing.

- Designed to operate in conjunction with a FDR (fast discharge reservoir which is supplied with the unit), to dispense chemicals into the wash tub
- No potential contamination of vacuum lines
- Extensive independent tests show the pump has achieved 95% accuracy of dosing
- Pump stops automatically when priming is complete
- Green LED flashes when dispensing which indicates correct operation
- New pump technology uses air pressure/vacuum to drive a diaphragm thereby eliminating pump wear

**TORPEDO DISPENSERS**

An efficient low-cost water system dispenser for 10 & 20 litre containers. Suitable for use with all soluble salts, magnesium, trace elements, powdered and liquid mineral supplements.

- Solid brass head
- Stainless filter
- Up to 24 hours dispensing
- Full instructions included

**DRUM PUMPS**

Eziaction® drum pump specifically designed for maximum cleanliness when using bulk liquid drums. Fits both 100 & 200 litre drums. Suitable for all Donaghys liquid products that do not contain harsh solvents.

- Superior polypropylene construction provides wide chemical resistance
- True double action pump for continuous fast flow
- Foot valve holder is secured tightly so doesn’t slip
- Anti-pumping safety device deters access by children
- Pumps from base of container ensures all contents emptied
- Unique Eziaction® adaptor fittings are leak free and fit securely
- 24 month manufacturer’s warranty

**STIRRRERS**

Donaghys easy to use drum stirrers (Lance hand mixer) are designed to re-suspend settled liquid components.

- All stainless construction
- Ensure drums are well stirred on a regular basis
- Simple operation
- Shaft turns free inside top housing

Available in 2 sizes -
- Small: 700mm stir depth, single paddle for 100 and 200 litre drums.
- Large: 900mm stir depth, double paddles for 1000 litre pods.
DairyMin® 5 Chelate is a balanced blend of the 5 major trace minerals required by dairy cows in New Zealand.

**WHY USE IT?**
- Ensures optimum health, immunity, fertility and productivity
- Counteracts poor mineral absorption
- Effective supplementation
- Easy to use

The minerals in DairyMin® 5 Chelate are supplied as organically bound chelates with the exception of Selenium.

It is effective supplementation in the face of chemical antagonism from minerals otherwise available to the cow.

It helps counteract poor mineral absorption by the cow.

The liquid form allows easy and accurate application through a torpedo dispenser or inline dispenser system.

Note: In areas with specific mineral shortages, additional supplementation may be required.

**DAIRYMIN® 5 CHELATE TRACE ELEMENT LEVELS**

<table>
<thead>
<tr>
<th>Element</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper Chelate</td>
<td>100mg</td>
</tr>
<tr>
<td>Cobalt Chelate</td>
<td>2mg</td>
</tr>
<tr>
<td>Selenium (Sodium Selenate)</td>
<td>2mg</td>
</tr>
<tr>
<td>Iodine Chelate</td>
<td>6mg</td>
</tr>
<tr>
<td>Zinc Chelate</td>
<td>100mg</td>
</tr>
</tbody>
</table>

**ALSO AVAILABLE IN HI COPPER, HI SELENIUM**

<table>
<thead>
<tr>
<th>Element</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper Chelate</td>
<td>150mg</td>
</tr>
<tr>
<td>Cobalt Chelate</td>
<td>2mg</td>
</tr>
<tr>
<td>Selenium (Sodium Selenate)</td>
<td>5mg</td>
</tr>
<tr>
<td>Iodine Chelate</td>
<td>6mg</td>
</tr>
<tr>
<td>Zinc Chelate</td>
<td>100mg</td>
</tr>
</tbody>
</table>

**DOSE RATES**

<table>
<thead>
<tr>
<th>Stage</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>COWS 1 month prior to calving</td>
<td>4mL/head/per day</td>
</tr>
<tr>
<td>COWS calving to mating</td>
<td>4mL/head/per day</td>
</tr>
<tr>
<td>COWS post mating through lactation</td>
<td>2mL/head/per day*</td>
</tr>
</tbody>
</table>

* Use blood/liver results or veterinary advice to confirm use of half rate.
DAIRYMIN® 8

DairyMin® 8 is a premium liquid mineral supplement in a probiotic extract base for dairy cows from pre-calving through mating and lactation. DairyMin® 8 ensures that adequate levels of trace elements are supplemented to enable cows to achieve higher levels of performance.

Registered Pursuant to the ACVM Act 1997 No. A9386.

WHY USE IT?
- Ensures optimum health, immunity, fertility and productivity
- Provides a balanced blend of essential trace elements for dairy cows
- Assists mineral absorption
- Avoids potential antagonisms that reduce uptake of particular minerals
- Easy to use in liquid form

The probiotic extract base (15%) provides high levels of amino acids and organic carrier compounds which assist mineral absorption. Key trace element levels have been balanced to avoid potential antagonisms which can reduce the uptake of particular minerals. The liquid form allows easy measurement and application through an inline dispenser system or through a torpedo dispenser.

DAIRYMIN® 8 TRACE ELEMENT LEVELS
(PER 15ML DAILY DOSE)

<table>
<thead>
<tr>
<th>Element</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper</td>
<td>140mg</td>
</tr>
<tr>
<td>Cobalt</td>
<td>6mg</td>
</tr>
<tr>
<td>Selenium</td>
<td>2mg</td>
</tr>
<tr>
<td>Iodine</td>
<td>8mg</td>
</tr>
<tr>
<td>Zinc</td>
<td>440mg</td>
</tr>
<tr>
<td>Manganese</td>
<td>80mg</td>
</tr>
<tr>
<td>Chromium</td>
<td>3.5mg</td>
</tr>
<tr>
<td>Boron</td>
<td>3mg</td>
</tr>
<tr>
<td>Probiotic</td>
<td>15%</td>
</tr>
</tbody>
</table>

SIZE
- 20, 100 & 200 Litres available on request

DOSE RATES (see container label for full information)
- COWS 1 month prior to calving: 15mL/head/per day
- COWS calving to mating: 15mL/head/per day
- COWS post mating through lactation: 7.5mL/head/per day*

* Use blood/liver results or veterinary advice to confirm use of half rate.

DAIRYMIN® 3

DairyMin® 3 is a liquid mineral supplement containing 3 essential trace elements – Copper, Selenium and Cobalt.

WHY USE IT?
- Formulated to provide a balanced blend of the three most common limited trace elements
- Concentrated formulation means low volume daily dose (4ml)
- Helps to ensure productivity, fertility and health are not compromised

Liquid form allows easy measurement and application through an inline dispenser system or through a torpedo dispenser.

DOSE RATES (see container label for full information)
- COWS 1 month prior to calving: 4mL/head/per day
- COWS calving to mating: 4mL/head/per day
- COWS post mating through lactation: 2mL/head/per day*

* Use blood/liver results or veterinary advice to confirm use of half rate.

Donaghys recommend regular testing of blood and liver samples in conjunction with veterinary advice to confirm optimum mineral levels are supplied. (Many factors can cause differences in required mineral levels). In areas with specific mineral shortages, additional supplementation may be required.
DAIRYMIN® 5 EZE

DairyMin® 5 Eze is a powdered mineral supplement containing 5 essential trace elements formulated for dairy cows to promote health and production.

WHY USE IT?

• Ensures optimum health, immunity, fertility and productivity
• High quality, cost effective mineral supplement product
• Easy to use and store

DairyMin® 5 Eze adequately supplements safe, balanced levels of the main five essential trace elements.

It comes in pre-measured sachets (25 x 1kg sachets per bag) to allow easy measurement and application through an inline dispenser system or through a torpedo system.

The sachets take away the normal handling and dust concerns of bulk-powder trace element mixes. DairyMin® 5 Eze is a safe and ‘Eze-to-use’ product.

The minerals remain protected from moisture and humidity once the outer polyprop bag is opened.

Also available in 25kg bulk bags (a measuring jug can be provided on request to make up herd’s daily requirement – with re-sealable cap to protect any unused minerals).

*Also available in a Hi Selenium 5mg/dose version.

DAIRYMIN® 5 EZE TRACE ELEMENT LEVELS
(PER 5G DAILY DOSE)

<table>
<thead>
<tr>
<th>SIZE</th>
<th>Copper</th>
<th>200mg</th>
<th>Available in:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cobalt</td>
<td>6mg</td>
<td>25kg Polyprop</td>
</tr>
<tr>
<td></td>
<td>Selenium</td>
<td>3mg*</td>
<td>bags with</td>
</tr>
<tr>
<td></td>
<td>Iodine</td>
<td>10mg</td>
<td>pre-measured</td>
</tr>
<tr>
<td></td>
<td>Zinc</td>
<td>500mg</td>
<td>sachets or</td>
</tr>
<tr>
<td></td>
<td>Sodium</td>
<td>1,100mg</td>
<td>25kg bulk bag</td>
</tr>
</tbody>
</table>

DOSE RATES (see container label for full information)

| COWS 1 month prior to calving | 5g/head/day |
| COWS calving to mating        | 5g/head/day |
| COWS post mating through lactation | 2.5g/head/day** |

** Use blood/liver results or veterinary advice to confirm use of half rate.

DAIRYMIN® CUSTOM BLEND

If variations to Donaghys standard range of powdered minerals are required, Donaghys can offer a custom blend service to suit farmers’ specific needs. A minimum one tonne order and a lead time apply.

Contact your local Donaghys Territory Manager for further information.
DAIRYMIN® 4 HI SELENIUM

DairyMin® 4 HI Selenium is a powdered mineral supplement containing 4 essential trace elements formulated for dairy cows to promote health and production.

WHY USE IT?

• Provides safe, balanced levels of Selenium, Cobalt, Iodine and Zinc
• Does not contain Copper making it suitable for farmers supplementing with PKE
• Available in convenient 25kg bulk bag

DairyMin® 4 HI Selenium has been formulated to adequately supplement safe, balanced levels of four main essential trace elements, including a high 5mg rate of Selenium per 5g dose. (DairyMin® 4 does not contain copper).

TRACE ELEMENT LEVELS (PER 5G DAILY DOSE) SIZE

<table>
<thead>
<tr>
<th>ELEMENT PER KG</th>
<th>ELEMENT PER KG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium*</td>
<td>14g</td>
</tr>
<tr>
<td>Magnesium</td>
<td>9g</td>
</tr>
<tr>
<td>Sodium</td>
<td>185g</td>
</tr>
<tr>
<td>Iron</td>
<td>0.5g</td>
</tr>
<tr>
<td>Iodine</td>
<td>112mg</td>
</tr>
<tr>
<td>Manganese</td>
<td>0.75g</td>
</tr>
<tr>
<td>Copper</td>
<td>1.25g</td>
</tr>
<tr>
<td>Zinc</td>
<td>3g</td>
</tr>
<tr>
<td>Cobalt</td>
<td>25mg</td>
</tr>
<tr>
<td>Boron</td>
<td>25mg</td>
</tr>
<tr>
<td>Selenium</td>
<td>3mg</td>
</tr>
<tr>
<td>Molasses</td>
<td>15g</td>
</tr>
<tr>
<td>Feed Bokashi</td>
<td>10g</td>
</tr>
<tr>
<td>Feedmeal base</td>
<td>200g</td>
</tr>
</tbody>
</table>

* Use blood/liver results or veterinary advice to confirm use of half rate.

DAIRYMIN® DMX

DairyMin® DMX is an animal remedy loose salt lick used to assist with the supplementation of trace element deficiencies in dairy cows.

WHY USE IT?

• Magnesium boosted for use with both dairy and beef cattle
• Supplies probiotic extracts and other natural digestion enhancers
• Supplies macro and trace elements necessary for production, fertility and good health

ELEMENT PER KG

<table>
<thead>
<tr>
<th>ELEMENT PER KG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium*</td>
</tr>
<tr>
<td>Magnesium</td>
</tr>
<tr>
<td>Sodium</td>
</tr>
<tr>
<td>Iron</td>
</tr>
<tr>
<td>Iodine</td>
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<tr>
<td>Manganese</td>
</tr>
<tr>
<td>Copper</td>
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<tr>
<td>Zinc</td>
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<tr>
<td>Cobalt</td>
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<tr>
<td>Boron</td>
</tr>
<tr>
<td>Selenium</td>
</tr>
<tr>
<td>Molasses</td>
</tr>
<tr>
<td>Feed Bokashi</td>
</tr>
<tr>
<td>Feedmeal base</td>
</tr>
</tbody>
</table>

* Calcium level in DairyMin® DMX equates to less than 5% of standard daily pasture intake of Calcium and is safe for use pre-calving.

AVAILABLE IN 25KG BAGS

DOSE RATES (See 25kg bag label for full information)

COWS 1 month before calving: 5g/head/day
COWS calving to mating: 5g/head/day
COWS post mating through lactation: 2.5g/head/day*

Note: Seek veterinary advice if using in addition to any other supplemental forms of Selenium.
mineral supplements

**MINERAL CONCENTRATE RANGE**

ALL DONAGHYS MINERAL CONCENTRATES ARE IN LIQUID FORM AND ARE READY TO USE

- **COPPER 80MG/ML**
  - Reduces the risk of poor fertility, ill thrift and lameness while improving disease resistance.
  - Improve milk production and fertility
  - Improve resistance to disease and lameness
  - Should be supplemented at times when livestock are consuming feed deficient in copper

- **COPPER CHELATE 70MG/ML**
  - For the prevention of copper deficiency including that caused by the treatment of facial eczema with high levels of zinc.
  - Improve milk production and fertility
  - Improve resistance to disease and lameness
  - Chelated form ensures absorption when other minerals are present
  - Should be supplemented at times when livestock are consuming feed which is deficient in copper

- **COBALT 8.5MG/ML**
  - For cattle who require cobalt to derive energy from their feed. Cobalt is also an essential component of B12.
  - Vitamin B12 creation in the animal to supply energy
  - Improve milk production and fertility
  - Improve condition and general good thrift
  - Should be supplemented when livestock have high energy demand

- **SELENIUM 5 5MG/ML**
  - A vital component of antioxidants that assist in livestock performance and health.
  - Promotes general good thrift
  - Improves milk production, fertility and disease resistance
  - Should be supplemented in regions deficient in selenium, especially around calving times

- **ZINC CHELATE 75MG/ML**
  - Required for immunity, fertility and electrolyte balance.
  - Improve skin condition, hooves and wound healing
  - For high producing livestock or stock identified as zinc deficient
  - To be used with increased levels of copper supplementation
  - Aids in the prevention of facial eczema

- **CALCIUM 180MG/ML**
  - Important for the formation of bones and teeth and to replace calcium that is lost from the bones during pregnancy and lactation.
  - Build bone calcium reserves for transfer to calves
  - Balance the metabolism to reduce the risk of milk fever
  - Made with highly absorbable calcium chloride
  - Increase efficiency to absorb minerals

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Donaghys recommend regular testing of blood and liver samples in conjunction with veterinary advice to confirm optimum mineral levels are supplied. (Many factors can cause differences in required mineral levels). In areas with specific mineral shortages, additional supplementation may be required.
ALL DONAGHYS MINERAL CONCENTRATES ARE IN LIQUID FORM AND ARE READY TO USE

**MAGNESIUM CHLORIDE 85MG/ML**
- Improve milk production and animal temperament
- Increase efficiency of absorption of minerals, in particular calcium and magnesium
- Can be mixed with calcium and solid magnesium supplements

**IODINE 40MG/ML**
- Improve thyroid function
- Improve condition and fertility
- Increase calf growth rate
- Improves disease resistance

**SIZE**
- 20 Litres

Donaghys Mineral Concentrates are available in 200 Litres on request

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**CALENDAR OF RECOMMENDED USE FOR DONAGHYS MINERAL SUPPLEMENT PRODUCTS**

<table>
<thead>
<tr>
<th>Product</th>
<th>Dry Off</th>
<th>Winter</th>
<th>2 Months</th>
<th>1 Month</th>
<th>Calving</th>
<th>Mating</th>
<th>Ongoing Lactation</th>
</tr>
</thead>
<tbody>
<tr>
<td>DairyMin® 5 Eze</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DairyMin® 5 Eze Hi Sel</td>
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<td></td>
</tr>
<tr>
<td>DairyMin® 5 Chelate</td>
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<tr>
<td>DairyMin® 5 Chelate Hi Cu Hi Sel</td>
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<tr>
<td>DairyMin® 3 and 8</td>
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<tr>
<td>Calcium</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Do not use pre-calving</td>
</tr>
<tr>
<td>Magnesium Chloride</td>
<td></td>
<td></td>
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<tr>
<td>Cobalt</td>
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<tr>
<td>Copper/Copper Chelate</td>
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<tr>
<td>Iodine</td>
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<tr>
<td>Selenium 5</td>
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<tr>
<td>Zinc Chelate</td>
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<tr>
<td>DairyMin® DMX</td>
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<tr>
<td>StockMin MMX</td>
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</tr>
</tbody>
</table>

**Key**
- Use highly recommended
- Can use lower rates based on test levels and individual conditions
- Can consider use if test levels and individual conditions indicate a benefit

Donaghys Dairy Mineral Supplements
“Constantly good health throughout the calves. Cost effective and easy to use.”

**PROCALF®**

Raise superior calves for less than $5 per head*

A premium probiotic extract with rennet which includes microbes licensed from AgResearch to promote growth, development and health in calves raised on milk or milk replacer.

**WHY USE IT?**

- Liquid form is easy to mix and use
- Faster growth and earlier maturity
- Enhances both liquid and solid feed utilisation
- Rennet promotes casein clotting to reduce dietary scouring
- Nil withholding period
- Overall ROI of over 5:1

**HOW PROCALF® WORKS**

- Provides a scientifically researched blend of yeast, bacterial extracts and enzymes to ensure full utilisation of liquid feed and aid in the early development of the rumen
- Establishes beneficial microbe populations in the digestive tract for digestion of hard feed, pasture and calf milk

Calves receiving ProCalf® in various trials gained as much as 7kg up to weaning compared to control. In one trial, treated calves were ready for weaning 7-10 days earlier than untreated calves. Independent trialling found ProCalf® increased calves appetite for meal by 6% and halved the incidence of dietary illness in trial calves.

**DOSE RATES (see container label for full information)**

| CALVES after weaning off milk | 10mL initial dose |
| CALVES post weaning off milk through to pre-calving heifers | 10mL every 3 weeks |
| CALVES after weaning off milk | 10mL at times of feed change |

Can be applied through oral drenching, a Donaghys Torpedo dispenser, or an inline dispenser to water system and can also be sprayed onto supplementary feed.

*ProCalf® Finisher is the original trusted Donaghys Rumenzyme Cobalt Plus with specific calf finishing information on the label to complement the use of ProCalf® pre-weaning*

*Cost per calf based on label rates for Donaghys ProCalf® added to calf milk and used over 42 days at Donaghys RRP incl GST.

**PROCALF® FINISHER**

A probiotic extract scientifically formulated for calves* after being weaned from milk, through to heifer pre-calving. ProCalf® Finisher can be used in situations when rennet is not required and when whey based calf milk replacers are being fed - when ProCalf® cannot be used.

**WHY USE IT?**

- Liquid form is easy to use – just add to drinking water, feed or drench
- Continue faster growth and weight gain
- Nil withholding period

**HOW PROCALF® FINISHER WORKS**

- Populates the rumen with fermented extracts of a large range of selected organisms including microbial growth promoters, enzymes and organic acids
- Activates beneficial rumen microbes aiding in the establishment and activity of beneficial rumen microflora, promoting continued rumen function and enhancing digestion and feed conversion

Calves receiving ProCalf® Finisher in various trials had a weight gain advantage of 5.1kg since the trial with ProCalf® began (correcting for starting differences). ProCalf® Finisher calves continued to put more weight on (4.9% over control). Treated calves were 9.2kg heavier than control by the end of the trial. The ProCalf® Finisher calves were weaned one week earlier than the control group and were happier and healthier calves.

*ProCalf® Finisher is the original trusted Donaghys Rumenzyme Cobalt Plus with specific calf finishing information on the label to complement the use of ProCalf® pre-weaning*
PRODAIRY

Scientifically developed to stimulate the establishment and activity of healthy microbes in the rumen to enhance digestion, feed conversion and milk production.

WHY USE IT?

• Easier adaptation to feed changes, varying feed quality and times of stress
• Higher yielding herd for a better bottom line
• Increase body weight and condition
• Help firm dung and aid in reducing acidosis
• Liquid form easy to use
• Nil withholding period

HOW PRODAIRY WORKS

ProDairy goes beyond probiotics in its action. While classic probiotics attempt to populate the digestive system with bacteria or yeast, ProDairy more potently stimulates the beneficial bacteria already present in the rumen. ProDairy can be easily applied through inline dispensers, trough dispensers or by direct oral drenching.

Available in: 20, 100 and 200 Litres
1,000 Litres available on request

SCIENTIFICALLY TESTED IN NEW ZEALAND AND INTERNATIONALLY

In New Zealand two independent and five in-house scientific trials were performed on pasture fed dairy cows in different regions at different times of the year. In the five in-house trials, the percentage of milk solid production difference between ProDairy and control was measured (one independent). Body weights or condition scores were measured in four of the seven trials.

RESULTS WITH PRODAIRY

• Average of 6.4% more milk solids than untreated cows
• Extra 65.3g of milk solids per day on average than untreated cows
• Extra production with no loss of body condition

In New Zealand, the value of increased production from these trials (at an $8.00 payout and gain of 6.4%) could yield an extra $73,000 worth of milk solid income for a 393 cow herd doing 276 days milking*, if results were extrapolated for a season. The cost of ProDairy for the season at the average volume used in these trials would be around $8,450 or 7.8c per cow per day, yielding a return of over 8:1.

DOSE RATES (see container label for full information)

<table>
<thead>
<tr>
<th>CALVES</th>
<th>10mL single dose then 4 weekly</th>
</tr>
</thead>
<tbody>
<tr>
<td>COWS 1 month prior to calving</td>
<td>10mL/head/day</td>
</tr>
<tr>
<td>COWS calving to mating</td>
<td>5-10mL/head/day**</td>
</tr>
<tr>
<td>COWS post mating to end of lactation</td>
<td>5-10mL/head/day**</td>
</tr>
</tbody>
</table>

See www.donaghys.com for trial results. If you can show that ProDairy did not positively affect your production, we will refund the price of the product.

* Herd figures from LIC dairy stats.
** Use higher rate (10mL) if dietary scouring on lush pastures occurs or when grain/concentrate feeding.

“The conception rate of my cows has improved and my empty rate has dropped. Not only that, our milk solids have increased dramatically since using ProDairy.”

Andy Howard.

“Calves weaning

10mL single dose then 4 weekly

COWS 1 month prior to calving

10mL/head/day

COWS calving to mating

5-10mL/head/day**

COWS post mating to end of lactation

5-10mL/head/day**
MAKING SOMETHING GOOD, BIGGER & BETTER

SODIUM MONENSIN

It adjusts the rumen microbe population, reducing gas producing bacteria. This assists the population of good microbes leading to improved rumen condition. Feed is digested more efficiently with less wasteful methane and higher productivity.

By improving the feed conversion, the natural gases produced by the cow are reduced, aiding in the prevention of bloat. Due to an improvement in cow condition, energy related diseases like ketosis and coccidiosis are also reduced and milk production is increased.

PREMIUM BLOAT

A blended mixture of Alcohol Ethoxylates for drenching and trough treatment as an aid in the prevention of bloat in cattle.

• Cold water soluble
• Viscosity controlled for ease of mix
• Low dose rate for effective control
• Compatible with soluble or suspension additives
• Long persistence time in the rumen

Contains 800g/L Alcohol Ethoxylate Propoxylate

PROMONENSIN PREMIX 20

A scientifically formulated powder containing Sodium Monensin to aid the treatment and prevention of bloat, ketosis and coccidiosis. ProMonensin PreMix 20 is designed to be mixed with hard feed for dairy cows, replacement heifers and beef cattle.

• Increases milk protein production
• Improves body condition, increases weight gains and enhances reproduction
• Dose rate of 1.5g per cow per day
• Aids in the control of ketosis and coccidiosis
• Promotes earlier onset of first oestrus in replacement heifers

Contains 200g/kg Sodium Monensin

PROMONENSIN 60

A scientifically formulated liquid containing Sodium Monensin to aid the treatment and prevention of bloat, ketosis and coccidiosis. ProMonensin 60 is designed to optimise feed conversion, increase milk production and improve cow condition.

Available in: 20, 60, 100 and 200 Litres

Why use it?
• Increases milk production
• Improves body condition, increases weight gains and enhances reproduction
• Dose rate of 5mL per cow per day
• Reduces gas to aid in the control of bloat
• Aids in the control of ketosis and coccidiosis
• Lower viscosity – easy to pour and administer
• Nil withholding period

Contains 60g/L Sodium Monensin

PROMONENSIN PREMIX 20

Registered Pursuant to the ACVM Act 1997 No. A010904.

PROMONENSIN 60

Registered pursuant to the ACVM Act 1997 No. A010904.

Patent pending NZ599028, 601896.
**PROABAMEC POUR-ON DRENCH**

Donaghy's ProAbamec is a pour-on drench for the treatment and control of internal and external parasites in cattle.

Registered pursuant to the ACVM Act 1997 No.10875.

**WHY USE IT?**

- Effectively controls Gastro-intestinal Roundworms, Lungworms and biting and sucking lice in cattle
- Dose rate of 1mL per 20kg bodyweight
- One five litre backpack will treat 200 cows
- No milk withholding period
- Each twin pack (2 x 5 litres) receives a free drench gun

Contains 10mg/mL of Abamectin (same strength and active ingredient found in other Abamectin pour-ons.)

Available in: 5 Litre backpack and 2 x 5 Litre twin pack

**PROLEV + MINERALS ORAL DRENCH**

For the treatment and control of roundworms and lungworms in cattle and sheep.

- Effectively controls Levamisole sensitive adult and immature roundworms and lungworms in sheep and cattle
- Dose rate of 1mL per 5kg bodyweight
- 20 litres will treat 200 cows

Contains 40g/L Levamisole Hydrochloride, 0.25g/L Cobalt, 2.6g/L Copper, 1.25g/L Iodine, 0.75g/L Zinc & 0.5g/L Selenium

Registered Pursuant to the ACVM Act 1997 No. A10924.

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**CALENDAR OF RECOMMENDED USE FOR DONAGHY'S ANIMAL HEALTH PRODUCTS**

<table>
<thead>
<tr>
<th>Product</th>
<th>Pre-Calving</th>
<th></th>
<th></th>
<th></th>
<th>Mating</th>
<th>Ongoing Lactation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dry Off</td>
<td>Winter</td>
<td>2 Months</td>
<td>1 Month</td>
<td>Calving</td>
<td></td>
</tr>
<tr>
<td>ProDairy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>ProCalff™</td>
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<td></td>
</tr>
<tr>
<td>ProCalff™ Finisher</td>
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<tr>
<td>ProMonensin 60</td>
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<tr>
<td>ProMonensin PreMix 20</td>
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<tr>
<td>Premium Bloat</td>
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<tr>
<td>ProAbamec</td>
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<tr>
<td>ProLev + Minerals</td>
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</tr>
</tbody>
</table>

Can be used on stock <100kg at this time.

Can be used on stock <100kg at this time.

**Key**

Green: Use highly recommended

Yellow: Can use lower rates based on test levels and individual conditions

White: Can consider use if test levels and individual conditions indicate a benefit
Adenine compounds These have the same base unit as cytokinin (a plant hormone). They are responsible for some of the positive cytokinin-like effects that have been established with N-Boost™ but show a more balanced growth response than pure cytokinin.

Amino Acids A variety of growth stimulating amino acids are present in N-Boost™. Chains of amino acids (oligopeptides) can increase nutrient uptake and increase the movement of nutrients (especially nitrogen) within plants.

N-Boost™ was commercialised in New Zealand in 2008 following a number of years of development. Lincoln University led the research into how N-Boost™ works. Additional research to understand how N-Boost™ works was undertaken by the University of Canterbury, AgResearch and the National Research Council, Canada.

N-Boost™ pastures trials have been peer reviewed by four independent parties.

The N-Boost™ System (designed for application on pasture) is 40kg/ha of urea dissolved in water with 3L/ha of N-Boost™, typically sprayed at 200L/ha.

In cropping situations, foliar applications of 3-6L/ha of N-Boost™ are applied at specific growth stages to complement standard fertiliser applications.

SCIENTIFIED PROVEN

Since 2008, there have been over 280 pasture and crop trials conducted by over 40 independent universities and organisations. N-Boost™ pasture trials have been peer reviewed by four independent parties.

ACTIVE INGREDIENTS INCLUDE:

- Adenine compounds
- Amino Acids

SCIENTIFICALLY PROVEN

How does N-Boost™ work?

Mode of action studies at Lincoln University have found that N-Boost™ stimulates key cell components. This action coincides perfectly with liquid urea application on pasture.

**CHLOROPLASTS**

These are a major area for cell energy storage (as starch) and can be stimulated to release this starch energy in order to promote growth.

**MITOCHONDRIA**

Mitochondria break down the sugars that the cell receives to create a readily available form of energy for the cell and increase energy production.

Farm with nitrogen restrictions

Modelling of a typical 160ha Canterbury dairy farm, using the Overseer® nutrient budget software, indicated up to a 15% reduction in nitrogen leaching from using the N-Boost™ System at 40kg/ha of urea compared to 80kg/ha of urea only, without compromising pasture production.

Donaghys N-Boost™ is the original scientifically proven and trusted Donaghys LessN® with the same ingredients and method of application.
To date, 67 trials nationwide have been conducted on a mixture of dryland and irrigated clover based pasture, making it the largest nitrogen response study on pasture in New Zealand since 1981. The trial periods ranged from 15 to 187 days with the average length of most trials being 25 days. Over 100,000 individual pasture measurements were taken. Of the total trials conducted, 7 trials did not show a nitrogen response to urea application and a further 7 were not conducted in accordance with Donaghys recommendations (i.e. off-label).

**APPLICATION ON PASTURE**

40kg/ha of urea is easily dissolved in water in an N-Boost™ Mixing Station (supplied free* by Donaghys), with 3L/ha of N-Boost™ and typically sprayed at 200L/ha with a conventional boom sprayer or boom jet.

N-Boost™ should only be used when a nitrogen response can be expected and soil temperatures are 10°C or above. Avoid applying in very hot or windy conditions or within 6 hours of impending heavy rain. Refer to the N-Boost™ brochure and label for further instructions.

*5,000, 10,000 & 25,000 Litre mixing stations available (tank, pipes and pump). For details and conditions, please contact your local Donaghys Territory Manager on 0800 942 006.

**PASTURE TRIALS**

**AVERAGE PASTURE GROWTH OVER 53 TRIALS, AVERAGE LENGTH OF 25 DAYS**

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Pasture Growth (kgDM/ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Urea</td>
<td>916</td>
</tr>
<tr>
<td>40Kg/ha Urea</td>
<td>1025</td>
</tr>
<tr>
<td>80Kg/ha Urea</td>
<td>1359</td>
</tr>
<tr>
<td>N-Boost™ + 40Kg/ha Urea</td>
<td>1362</td>
</tr>
</tbody>
</table>

**AVERAGE NITROGEN RESPONSE OVER 53 TRIALS, AVERAGE LENGTH OF 25 DAYS**

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Nitrogen Response (kg DM/ha/kg N applied)</th>
</tr>
</thead>
<tbody>
<tr>
<td>40Kg/ha Urea</td>
<td>10</td>
</tr>
<tr>
<td>80Kg/ha Urea</td>
<td>12</td>
</tr>
<tr>
<td>N-Boost™ + 40Kg/ha Urea</td>
<td>24</td>
</tr>
</tbody>
</table>

**NITROGEN RESPONSE OF 3L N-BOOST™ + 40KG/HA UREA COMPARED TO 40KG/HA UREA ALONE AND 80KG/HA UREA ALONE (OVER 53 TRIALS).**

Donaghys N-Boost™ is the original scientifically proven and trusted Donaghys LessN® with the same ingredients and method of application.
pasture and crop management

NITROGEN BOOSTER

Nine extended trials were conducted past one grazing round (average of 49 days) to assess the residual effect of N-Boost™. Five of these trials were independent and four were in-house. Extended trials proved that the residual effect of the N-Boost™ System is similar to an application of solid urea at 80kg/ha.

AVERAGE NITROGEN RESPONSE OVER 9 TRIALS, AVERAGE LENGTH OF 49 DAYS

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Nitrogen Response (kg DM/ha/kg N applied)</th>
</tr>
</thead>
<tbody>
<tr>
<td>40Kg/ha Urea</td>
<td>11</td>
</tr>
<tr>
<td>80Kg/ha Urea</td>
<td>12</td>
</tr>
<tr>
<td>N-Boost™ + 40Kg/ha Urea</td>
<td>27</td>
</tr>
</tbody>
</table>

AVERAGE PASTURE GROWTH OVER 9 TRIALS, AVERAGE LENGTH OF 49 DAYS

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Pasture Growth (kgDM/ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Urea</td>
<td>1455</td>
</tr>
<tr>
<td>40Kg/ha Urea</td>
<td>1649</td>
</tr>
<tr>
<td>80Kg/ha Urea</td>
<td>1902</td>
</tr>
<tr>
<td>N-Boost™ + 40Kg/ha Urea</td>
<td>1948</td>
</tr>
</tbody>
</table>

One trial was also conducted throughout an entire milking season (seven grazing rotations). Treatments were reapplied before grazing three and grazing six. The treatment with N-Boost™ grew similar amounts of pasture to the treatment with 80kg spread urea.

TOTAL PASTURE GROWTH OVER ONE TRIAL, TOTAL LENGTH OF 187 DAYS

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Pasture Growth (kgDM/ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Urea</td>
<td>7177</td>
</tr>
<tr>
<td>40Kg/ha Urea</td>
<td>8669</td>
</tr>
<tr>
<td>80Kg/ha Urea</td>
<td>11330</td>
</tr>
<tr>
<td>N-Boost™ + 40Kg/ha Urea</td>
<td>11349</td>
</tr>
</tbody>
</table>

APPLICATION ON CROPS - In cropping situations, 3-6L/ha of N-Boost™ is applied as a foliar application with water, sprayed at an appropriated water volume (50-200L/ha). Refer to the N-Boost™ brochure and label for further instructions.

INCREASE CROP YIELDS - Over 200 replicated trials were conducted on 19 different significant broadacre and intensive vegetable crops. In trials designed to quantify yield improvement, the overall average yield increase for the N-Boost™ treated crops was 10% compared to the untreated crops, providing commercially viable yield increases using N-Boost™.

Donaghys N-Boost™ is the original scientifically proven and trusted Donaghys LessN® with the same ingredients and method of application.

THE EFFECT OF N-BOOST™ ON SELECTED CROPS TRIALLED IN NEW ZEALAND AND OVERSEAS

<table>
<thead>
<tr>
<th>Crop Type</th>
<th>Yield Increase (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kale*</td>
<td>5 Trials</td>
</tr>
<tr>
<td>Maize Silage</td>
<td>14 Trials</td>
</tr>
<tr>
<td>Maize Grain</td>
<td>9 Trials</td>
</tr>
<tr>
<td>Lucerne</td>
<td>4 Trials</td>
</tr>
<tr>
<td>Canola</td>
<td>9 Trials</td>
</tr>
<tr>
<td>Cotton</td>
<td>9 Trials</td>
</tr>
<tr>
<td>Potatoes</td>
<td>17 Trials</td>
</tr>
<tr>
<td>Forage Sorghum</td>
<td>5 Trials</td>
</tr>
<tr>
<td>Turnips*</td>
<td>3 Trials</td>
</tr>
<tr>
<td>Onions</td>
<td>8 Trials</td>
</tr>
</tbody>
</table>

CROP TYPE

*Included 40kg/ha foliar urea

PLANT GROWTH PROMOTERS

DONAGHYS GibbSTART MAX

A Gibberellic acid product for the stimulation of pasture growth in late Autumn and early Spring.

- Stimulates extra pasture production when extra feed is needed and when pasture growth is limited by cooler soil temperatures
- Liquid formulation eliminates dissolving and dust issues
- Easy to mix and measure
- Can be tank mixed with Donaghys selective herbicides 2,4-D Amine and 2,4-D Ester 880
- Compatible with Donaghys N-Boost™ and dissolved urea fertiliser
- Available in two pack sizes; 1L – enough to cover 25 hectares and 5L – enough to cover a massive 125 hectares!

Registered Pursuant to the ACVM Act 1997 No. P00764. Contains 200g/L Gibberellic acid in the form of a Soluble Concentrate.

SIZE

1 and 5 Litres
<table>
<thead>
<tr>
<th>HERBICIDES</th>
<th>DONAGHYS GRUNT 600 GLYPHOSATE</th>
<th>SPRAYOFF MATE</th>
<th>ACETOCHLOR 840</th>
<th>ATRAZINE 500</th>
<th>FLUMETSULAM 800</th>
<th>BROADLEAF KILL 2,4-D ESTER 680</th>
<th>BROADLEAF KILL 2,4-D AMINE</th>
<th>BROADLEAF KILL CLOPIC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>The strongest fully surfactant loaded glyphosate in the world.</strong></td>
<td><strong>Fully loaded with environmentally friendly surfactants</strong>&lt;br&gt;<strong>Low application rates</strong>&lt;br&gt;<strong>5 years research and trial work</strong>&lt;br&gt;<strong>Non-residual, foliar absorbed and translocated herbicide</strong>&lt;br&gt;<strong>Non withholding period, except for ragwort</strong>&lt;br&gt;Contains 600g/L glyphosate as the potassium and triethanolamine salts in the form of a soluble concentrate.</td>
<td><strong>Used as an additive to Donaghys Glyphosates to improve activity on a range of broadleaf weeds and clovers</strong>&lt;br&gt;<strong>Susceptible plants cease growth immediately and full symptoms can be seen in 1-3 weeks</strong>&lt;br&gt;<strong>Compatible with most commonly used cereal herbicides, insecticides and fungicides</strong>&lt;br&gt;Contains 750 g/kg Tribenuron-methyl as Water Dispersible Granules.</td>
<td><strong>Provides up to 10-12 weeks residual control</strong>&lt;br&gt;<strong>Applied directly after planting</strong>&lt;br&gt;<strong>Absorbed through the shoots of emerging weeds, causing death</strong>&lt;br&gt;<strong>Compatible with Atrazine and Dicamba</strong>&lt;br&gt;Contains 840g/L Acetochlor in the form of an emulsifiable concentrate.</td>
<td><strong>Absorbed through the leaves and roots to inhibit photosynthesis</strong>&lt;br&gt;<strong>Compatible with Donaghys Grunt 600 and Acetochlor 840</strong>&lt;br&gt;Contains 500g/L Atrazine in the form of a suspension concentrate</td>
<td><strong>Applied using conventional ground or air spraying equipment</strong>&lt;br&gt;<strong>Compatible with most commonly used herbicides</strong>&lt;br&gt;Contains 800g/kg flumetsulam in the form of a water dispersible granule.</td>
<td><strong>Powerful thistle and broadleaf weed control in established pastures</strong>&lt;br&gt;<strong>May be tank mixed with most commonly used pesticides</strong>&lt;br&gt;Contains 680 g/L 2,4-D as the ethylhexyl ester in the form of an emulsifiable concentrate.</td>
<td><strong>Foliar absorbed and translocated throughout the plant</strong>&lt;br&gt;<strong>Best results are obtained when weeds are not under stress and are actively growing with clean foliage</strong>&lt;br&gt;<strong>Can be tank mixed with most other commonly used pesticides</strong>&lt;br&gt;Contains 400 g/L 2,4-D as the triethanolamine salt in the form of a soluble concentrate.</td>
<td><strong>Controls certain broadleaf weeds in fodder brassicas and radiata pine.</strong>&lt;br&gt;<strong>Applied using conventional ground or aircraft spraying equipment</strong>&lt;br&gt;<strong>Compatible with most other herbicides</strong>&lt;br&gt;Contains 150g/L Picloram &amp; 225g/L Clopyralid, both as the monoethanolamine salt, in the form of a soluble concentrate.</td>
</tr>
</tbody>
</table>
pasture and crop management

HERBICIDES

**BRUSHWEED KILL TRIPIC**
Herbicide for the control of gorse, blackberry, lupin, sweet briar, matagouri, barberry and other brushweeds.

- Effective for release spraying in radiata pine and broadleaf weed control in turf
- Safe to most desirable grasses

Contains 300g/L triclopyr as the butoxyethyl ester and 100g/L picloram as the triisopropanolamine salt in the form of an emulsifiable concentrate. Also contains 460g/L diethylene glycol solvent.

**BRUSHWEED KILL TRI 600**
Herbicide for the control of gorse, broom, blackberry, lupin, sweet briar, tutu, fennel, old man’s beard, barberry and other brushweeds.

- Powerful brushweed killer
- Compatible with most commonly used agrichemicals
- Safe to most desirable grasses
- Best results achieved when applied during active growth

Contains 600g/L triclopyr as the butoxyethyl ester in the form of an emulsifiable concentrate.

**BRUSHWEED KILL MET600**
Non-selective herbicide for the control of gorse, blackberry and many other scrub weeds in pasture, forest site preparation and non-cropland areas.

- Absorbed by foliage and systematically translocated
- Compatible with most commonly used agrichemicals except hormone type products
- Injurious to legumes including clover

Contains 600 g/kg Metsulfuron-methyl as Water Dispersible Granules.

**WETTER STICKER**
An organosilicone surfactant / penetrant specifically formulated to assist the penetration and uptake of Donaghys herbicide range.

- Uptake of Donaghys herbicide products are more rapid and the rainfree period is generally reduced
- Lowers the surface tension of spray solutions

100% organosilicone surfactant.

**COVER**
An organosilicone surfactant / penetrant specifically formulated to assist the penetration and uptake of Donaghys herbicide range.

- Uptake of Donaghys herbicide products is more rapid and the rainfree period is generally reduced
- Increases the coverage and enhances penetration of Donaghys Agrichemicals
- Lowers the surface tension of spray solutions

98% Ethoxylated Propoxylated.

INSECTICIDES

**INSEC 480**
A broad-spectrum organophosphate insecticide for the use in fruit crops, cereals, pasture and forage crops.

- Works directly on insect pests through contact and vapour action stomach poison when ingested by insects
- Remains active in soil for several days
- Can be mixed with glyphosate if paddocks are going to be drilled soon after application
- Control of Aphids, Nysius (wheat bug) & Springtails in Brassica and forage crop situations
- Control of Army caterpillar, corn earworm and cutworm in maize

Contains 480g/Litre Chlorpyrifos in the form of an emulsifiable concentrate.
FUNGICIDES

LIQUID MYCOTAK®
Pasture applied fungicide for the control of the causal organism of facial eczema.
- Offers up to six weeks protection from Facial Eczema
- Eliminates the spores in pasture that cause toxins to build up in the liver
- Reduces the need to treat stock with Zinc
- Absorbed into the plant and transported via the sap stream outwards and upwards
- Compatible with Donaghys N-Boost™ and other agrichemicals
- Liquid form easy to use

Registered Pursuant to the ACVM Act 1997 No. P008688.
Contains 500g/litre Carbendazim (in the form of a suspension concentrate).

SIZE
20 Litres

MYCO-RF®
For the control of Rust and Fusarium species in pasture and Crown Rust and Stem Rust and Blind Seed in ryegrass seed crops.
- Controls Rust and Fusarium in pasture resulting in cleaner, healthier and more palatable pasture
- Prevents the slowing of growth, rate of aging and death of grasses caused by Rust and Fusarium
- Increases dry matter production of Rust and Fusarium affected pastures
- Reduces ill thrift in stock caused by Rust and Fusarium
- Compatible with Donaghys N-Boost™

Registered Pursuant to the ACVM Act 1997 No. P7825.
Contains 800g/kg tebuconazole in the form of a wettable powder.

SIZE
1kg

MYCOWET®
A non-ionic organosilicone ‘Super Spreader’ surfactant blend for the application of Donaghys Mycotak® and Donaghys Myco-RF® fungicides.
- Lowers the surface tension of spray solutions well below commonly used surfactants
- Enhances the spreading and foliage deposition of Mycotak® and Myco-RF® fungicides
- When used as directed, will reduce off-target spray drift by up to 25%
- Use where coverage is critical and particularly suited to low volume spraying
- Use for aerial applications where water coverage is a limiting factor

Contains a proprietary organosilicone/organic fluid blend.

SIZE
1, 5 & 20 Litres

CALENDAR OF RECOMMENDED USE FOR DONAGHYS PASTURE AND CROP MANAGEMENT

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Key
- Recommended for use
- Not recommended for use
ECOSYL SILAGE INOCULANT
THE WORLD’S MOST PROVEN SILAGE INOCULANT

Unpredictable weather changes can hamper even the best efforts to produce quality forage. Inoculating silage with Ecosyl is not only your insurance against fermentation risks; it is also a proven way to increase animal performance on dairy, sheep and beef farms.

WHY USE IT?
- Ecosyl reduces risk of poor silage by overcoming deficiencies.
- Fast, efficient fermentation can be achieved with minimal dry matter losses.

TECHNOLOGY & TRIALS

Ecosyl’s performance is supported by more independent trials than any other inoculant. Trials have shown that Ecosyl treated forage:
- Yielded an additional 1.2 litres milk/cow/day on average.
- Delivered 27.4 litres more milk per tonne of silage.
- Improved rumen efficiency with up to 42% higher true protein.
- Gave a more palatable result with 5% higher dry matter intake.
- Increased nutrient absorption (extra 3% digestibility).
- Resulted in 10.5% higher beef weight gain overall.

Ecosyl contains high numbers of MTD/1, a single specially selected strain of Lactobacillus plantarum. MTD/1 is a highly efficient producer of lactic acid and acts over wider ranges of pH, temperature and dry matters than most other strains of L. plantarum. MTD/1 promotes more rapid pH fall with higher lactic acid and lower ammonia, essential for stable silage and nutrient preservation.

WHY USE DONAGHYS SILAGE COVERS?
- Tougher and stronger than traditional covers.
- Puncture resistance and tear strength is enhanced.
- Outstanding reflective properties on black/white covers which reduce heat build-up and transfer of oxygen for better fermentation.
- 12 month UV warranty.
- Free fall folded one piece cover designed to be easy to put on.

For more information please refer to the Donaghys Crop Packaging brochure.

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Heavy Black/White  Grass Cover Utility Black/Green  Grass Cover Utility Black  Medium (economy) Black
**HOUSEHOLD CLEANING**

### BLUEWASH LAUNDRY POWDER
- Concentrated powder
- Optimised levels of optical brighteners
- Contains enzymes
- Ideally suited for farm overalls

**SIZE** 5 & 10kg

### DISHBRITE DISHWASHING POWDER
- Freely soluble
- Non-chlorinated
- Contains a citrus perfume
- Safe on all plastic ware

**SIZE** 5kg

### HAPPY NAPPY
- Cleans and suspends soil from fabrics
- Non-chlorinated bleaching powder
- Highly economical in use
- Suitable for use on white, coloured, worked and mixed loads
- Suitable for whitening nappies

**SIZE** 5kg

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**DONAGHYS OFFER A BONUS DEAL ON ORDERS OF DONAGHYS DAIRY RANGE PRODUCTS.**

Here at Donaghys we are genuinely serious about farming – our customers bottom-line, and the success of the New Zealand farming industry.

It’s all about searching for better ways to lower production costs and increase productivity. We take pride in what we offer, and stand behind all products we supply. We even reward our loyal customers.

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<tr>
<th>ORDER</th>
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<tr>
<td>$5,000</td>
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This is only valid for orders placed from the 1st of April through to the 31st August of each year and is subject to change. Contact your local Donaghys Territory Manager to order or visit www.donaghys.com for further information.
To order or for further information about these products please contact your local Donaghys Territory Manager or phone Donaghys Customer Services on the number below:

NEW ZEALAND
DONAGHYS INDUSTRIES LTD
16 Sheffield Crescent, Harewood,
PO Box 20 449, Christchurch 8543
Freephone: 0800 942 006
Freefax: 0800 945 779
Email sales@donaghys.com
Web www.donaghys.com