



PASTURE & FORAGE
Seed

Buy seed direct

H & T
AGRONOMICS

About H&T Direct

H&T Agronomics provides specialist input and advice to leading New Zealand farmers on their regrassing and forage systems through a network of grain and seed representatives.

H&T Direct allows all farmers to access the best seed and endophyte technology from Agresearch and New Zealand's best forage companies in areas not currently covered by our specialists.

H&T Direct uses direct distribution enabling farmers to access H&T's expertise at industry leading pricing.

The company formulates high performance pasture mixes to meet the animal production needs of modern farming systems, clearly stating end use allowing farmers to make the best decision on pasture type.

All seed included in H&T mixes are certified proprietary cultivars meaning each seed is a package of technology that has been researched and produced to the highest standards. All seed is backed by the breeder and the New Zealand Seed Certification Scheme so farmers can be sure they are purchasing the highest quality product.

The most exciting development in perennial pastures in a generation are novel endophytes H&T Direct uses this up-to-the-minute technology in all medium and long-term mixes.

The two main novel endophyte strains are:



AR37 is the latest endophyte release from Agresearch and provides a break-through in pasture persistence, insect resistance and long-term yield.

It has been shown to produce significantly higher levels of drymatter production than standard endophyte or AR1 cultivars – a benefit which becomes increasingly pronounced in the second and third years of trials.

AR37 does not cause heat stress or other animal effects associated with Ergovaline. Trials have shown a reduced risk of ryegrass staggers in comparison to standard endophyte.

H&T Direct recommends AR37 cultivars should be used where ever possible in dairy mixes. It has an excellent pay back in sheep and beef systems where farmers are looking for high yield and increased persistence.



AR1 has been available in selected ryegrass cultivars for several years and provides protection from argentine stem weevil and pasture mealy bug.

It has no detrimental animal health effects on stock and has been shown to give five to ten percent greater milk production in dairy cows as well as vastly improved summer liveweight gains in lambs compared to standard endophytes.

AR1 should be used in preference to standard endophyte for dairy cows and in sheep and beef, deer and horse mixes if no risk of staggers can be tolerated.

ICON KEY



= Sowing rate



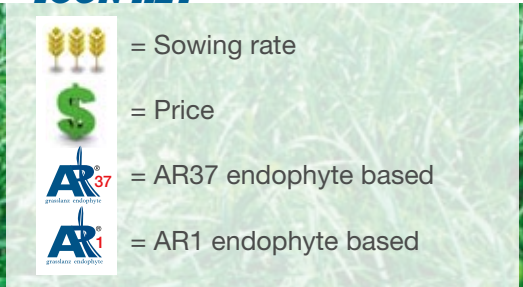
= Price



= AR37 endophyte based



= AR1 endophyte based



Amplifier DAIRY

Amplifier increases both yield and quality of pasture that has lost its density. It will improve pasture for one to three years depending on insect pressure, heat and summer moisture.

It establishes itself quickly, has high winter growth rates and low summer stem production.

Amplifier can be widely adapted over New Zealand, with a recommended environment of Olsen P >20, pH >5.0, rainfall >800 mm.




12 kg/ha



\$120/ha + GST per 24 kg bag
/\$60 + GST per hectare

Elite DAIRY

Elite AR37 – dairy - should be the mainstay of dairy systems.  is a quantum leap in long term pasture yield, with maximum drymatter production and persistence allowing maximum milk production.

Its benefits are a very high pasture production on a long term basis and reduced pulling via stronger root systems. It is resistant to a range of pests including Argentine stem weevil, black beetle, mealey bug, root aphid and porina. It also has good tolerance to ryegrass leaf disease and utilises robust and productive white clover cultivars.

Elite AR37 – dairy - can be widely adapted over New Zealand, with a recommended environment of Olsen P >20, pH >5.8, rainfall > 950mm.



25 kg/ha



\$240 + GST per 25kg bag



Amazon – Endo 5 and AR1 is a high quality summer mix suitable as a proportion of an irrigated system. It requires good drainage, low levels of pugging, and consistent summer irrigation.

H&T Direct recommend up to 30 percent of milking area in this mix. It may be slower over the August – October period than the Elite AR37 – dairy mix.

Amazon – Edno 5 and AR1 has a high level of palatability, is highly compatible with clover and has a high summer leaf production.

Its recommended environment is consistent summer moisture and good drainage with Olsen P >25, pH >5.9, rainfall >1000 mm.



30 kg/ha



\$255 + GST per 30 kg bag



Thrive AR1 is a high quality summer mix with excellent cool season activity. It can tolerate more foot pressure and less consistent summer rainfall than Amazon.

H&T Direct recommend up to 30 percent of milking area in this mix. It may be slower over the August – October period than the Elite AR37 – dairy mix and is most suited to areas with good summer moisture retention.

Thrive AR1 has high summer leaf production and tolerates high stocking rates.

Its recommended environment is areas with good summer growth, with Olsen P >20, pH >5.0, Rainfall >900 mm.



25 kg/ha



\$225 + GST per 25 kg bag



Fescue is best used to improve summer yield where summer soil temperatures likely to exceed 20 degrees. This performs best in areas of summer moisture or irrigation, and sowing prior to March 10 or spring sowing is preferred.

Seed should be sown into a weed free, well consolidated seed bed at 10mm to ensure establishment.

This mix provides high summer pasture growth rates in hot environments, with good insect tolerance.

It is best suited to hot summer environments with Olsen P >25, pH >5.9, rainfall >900 mm.



27 kg/ha



\$318/ha + GST per 27 kg bag



H&T DIRECT ORDER FORM

In just 3 easy steps you can have your seed delivered straight to your door.

① ***Select*** your seed mix and quantities

② ***Fax*** completed order form

③ ***Wait*** for your seed to be delivered

See overleaf for details. Please tear out this section return fax, or post to H&T Agronomics, PO Box 321, Feilding Fax: 06 323 5951

Customer Information

Please mail, phone, fax or email this form to the address below:

H & T Ltd

PO Box 321 Feilding

Tel. 06 323 5091

Fax. 06 323 5951

Email. info@hnt.co.nz

or visit **www.hnt.co.nz** and complete the online form.

Customer Business name

Customer number

New customer

First name

Surname

Postal address _____

* Delivery point address _____

Telephone

Fax

Email

METHOD OF PAYMENT

Visa Mastercard Amex Cheque

Card number

Expiry date

Card holders name


Signature

Please make Cheques payable to Hodder & Taylors Ltd.

The product will be dispatched when the cheque clears.

Product Required

Please select from the items below and return to H & T as per delivery method to the left of this page.

ITEM		QUANTITY (bags)
DAIRY MIXES		
<i>Fescue</i>		
<i>Elite Dairy</i>		
<i>Amazon</i>		
<i>Thrive</i>		
<i>Amplifier</i>		
SHEEP & BEEF MIXES		
<i>Elite Sheep & Beef</i>		
<i>Universal</i>		
<i>Flourish</i>		
<i>Presto</i>		
SEED TREATMENT		
<i>Poncho</i>		

* Seed will be dispatched free of charge to a nominated delivery point in the nearest town. Delivery should take 3 working days. Due to temporary shortages or heavy transport volumes in the height of the season this may be longer, Please allow for this when ordering.

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DISCLAIMER: H&T Direct limit their liability to the value of seed supplied and take no responsibility for improper establishment or storage after sale.



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PONCHO®

Sow PONCHO® treated pasture seed, Sow peace of mind

Poncho seed treatment protects your precious grass seed from attack by the two most important pests of establishing pasture, Argentine stem weevil and grass grub, right from the time of sowing.

Because of Poncho's broader spectrum it supersedes Gaucho as the preferred seed treatment for the protection of pasture.

Poncho treated seed gets out of the ground faster, maximising plant establishment thus reducing weed ingress and ensuring maximum early season dry matter production.

Using Poncho treated seed is easy - you don't have to handle smelly granular insecticides; you don't need any special application equipment and there are no empty chemical containers to dispose of.

Talk to H & T Agronomics and have your seed treated with Poncho.





Flourish AR1 gives maximum quality for growing young stock over a period of four to five years. This mix is not suitable for areas that will be set stocked for long periods or overgrazed.

This mix gives the benefits of palatability, high clover compatibility, reduced summer stem production, and high levels of cool season production.

It is best suited to areas of good drainage, good subdivision and soil with an ability to hold moisture into the summer, with a recommended environment of Olsen P > 20, pH >5.8, rainfall > 850 mm.



30 kg/ha



\$238 + GST per 30 kg bag.



Presto is most suitable for a period of 12 -24 months, focused on autumn, winter and spring production. It is a speciality mix to be used as a break for converting poor quality pasture and as a high yielding cool season producer in summer dry environments. Heat, summer dry, low fertility and insect pressure can reduce persistence into the second year.

Its benefits are rapid establishment, high winter growth rates and a tolerance of high and low residual grazing. Sow early for maximum winter yield.

Presto performs at its best in high Nitrogen soils with a recommended environment of Olsen P >18, pH >5.7.



23kg/ha



\$138 + GST per 23 kg bag



Elite AR37 – sheep & beef - is the mainstay of developed sheep and beef systems. It produces maximum drymatter production and persistence in a spring-based sheep and beef system.

It produces very high pasture production on a long term basis with consistent performance over a wide range of environments and management. Other benefits include increased autumn recovery, tolerance to periods of set stocking, and good tolerance to leaf disease.

Elite AR37 – sheep and beef - can be widely adapted over New Zealand, with a recommended environment of Olsen P >20, pH >5.7, rainfall > 750mm.



25 kg/ha



\$230 + GST per 25kg bag



Universal AR1 is a perennial option for sheep and beef, horse and deer systems, with no risk of ryegrass staggers. Volunteer plants may still cause ryegrass staggers over time.

It produces a traditional growth curve to suit spring breeding systems and is able to tolerate periods of set stocking. It will perform under both high and low residual grazing and has good tolerance to leaf disease.

Universal AR1 can be widely adapted over New Zealand, with a recommended environment of Olsen P >20, pH >5.7, rainfall > 800mm.



25 kg/ha



\$200 + GST per 25kg bag

Pasture Establishment

Successful pasture establishment starts with planning.

Consideration needs to be given to the long and short term goals of the farm, when deficits and surpluses occur, feed quality issues, management requirements of particular pastures, and how new pastures will fit into or alter the current feed base.

Use the following simple checklist to help ensure that your pasture renewal program is successful.

1. Paddock Selection

- A paddock by paddock approach is best as no two paddocks are the same
- Begin with the paddock with the greatest difference between current and potential performance, as the marginal return on dollars invested is usually higher
- Select paddocks early, 1 – 2 years is required to properly prepare for new pastures
- Get a comprehensive soil test so that fertility levels can be improved if needed. Often pH, phosphorus and potassium levels need attention.

2. Paddock Preparation

- Control weeds and weed seed production in the 1 – 2 years prior to sowing a new pasture. Techniques available include spray-graze, spray-topping, spray-fallow and multiple fodder crops.

3. Sowing

- Wait for autumn rain and then use a knockdown spray in order to control germinating weeds. Sowing can commence the 3-5 days later
- Ensure that cultivated paddocks are even, have a fine tilth and firm seed bed

- Paddocks that are being direct drilled should also be level and clear of excessive trash
- Sow seed at 10mm depth. Press wheels or a roller are often useful for improving the seed-soil contact and getting the pasture up quickly and evenly
- Use fertiliser at sowing. Ready access to N and P will ensure rapid and vigorous early growth. Never sow more than 15 kg N with the seed in a direct drill application. A good N:P ratio for starter fertilisers placed with or near the seed is 1:2. If required, use fertiliser blends containing trace elements such as molybdenum to promote healthy growth and function of legumes. When direct drilling, band the fertiliser to the side or below the seed where it is easily accessed by new roots.

4. Monitoring the Paddock after sowing

- Frequently monitor newly sown pastures for weed and insect pests. Controlling weeds early requires less chemical, is more effective, and often has less impact on the sown pasture. Insect pests can decimate an emerging pasture; prompt action prevents significant plant losses and loss of production.

5. First grazing

- First grazing should occur only once the plant has begun to tiller out and is at least 10cm high. Ensure plants are firmly anchored in the ground before grazing and avoid over-grazing or pugging damage. Avoid grazing moisture stressed new pastures
- Consider an application of N based fertiliser after the first grazing to promote quick recovery and encourage further tillering of the plants.



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