



# High Performance Pasture Mixes

In conjunction with Cropmark Seeds, we've developed a range of high performance pasture mixes, built for New Zealand pastoral farmers.

Ready to sow pasture mixes, designed for livestock classes and pastoral farming systems in New Zealand. Providing high-quality feed when you need it.

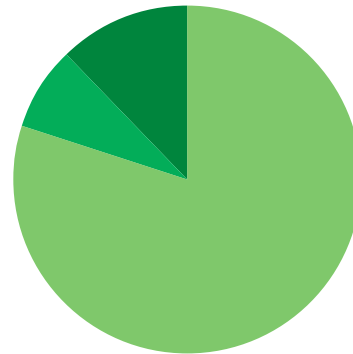
  
**ravensdown**





It starts here...  
**44699**

# HP Stampede CM142 Mix



Pre-mixed into convenient 1ha (25kg) size bags.

## Performance and Persistence

Would suggest changing to: A high performance pasture mix containing the new perennial ryegrass Stampede CM142 for improved persistence, pest protection and animal health.

### Suitability / Use

You have the option of treated or bare seed. Ravensdown recommends the use of treated seed to provide increased insect protection for your investment. Ideally suited where protection against pests like Black beetle adult, porina caterpillar and root aphid in addition to Argentine stem weevil is needed to help manage persistence issues. Also provides reduced risk of ryegrass staggers and heat stress.

Recommended for high performance systems, irrigated or higher rainfall, rotational grazing and set stocking.

### Contents

- Stampede CM142
- Demand white clover
- Mantra white clover

### Key traits

- Improved persistence, insect protection and stock safety
- Superior yield performance, year round
- Insect protection with reduced risk of staggers and heat stress
- High livestock performance potential

## Pasture components

### Stampede CM142 perennial ryegrass

ENDOPHYTE	HEADING DATE (DAYS CF NUI)	PLOIDY	SOWING RATE (KG/HA)	SOWING DATE	INSECT TOLERANCE
CM142	+ 14	Diploid	18-22	Autumn and spring	Very good

Stampede CM142 is a highly tillered diploid it offers increased persistence of yield together with a high Winter/Early Spring growth pattern. A late heading date and high leaf-to-stem ratio combine with excellent rust resistance to promote feeding value. Combined with the innovative CM142 endophyte for a high level of insect tolerance and a new generation of livestock safety, Stampede is designed to go the distance.

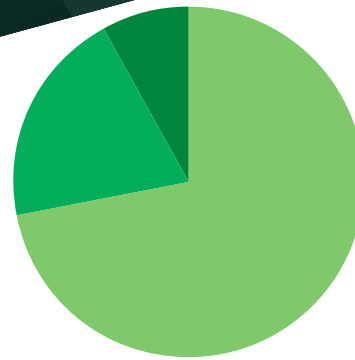
CM142 is the latest epoxy-janthitrem producing endophyte to become available for the control of insect pests in ryegrass. Key features of CM142 endophyte - proven efficacy against the most important insect pests in ryegrass, proven animal safety with the highest 4-Star safety rating for sheep & cattle and zero production of toxic lolitrem-B or ergovaline alkaloid. 2024 PBRA provisional rating for sheep and lambs (++++), full rating for cattle and dairy cows +++++.

Insect efficacy research has been conducted by independent entomologists using both controlled 'pot' experiments and field trials as appropriate. This research has tested CM142 against the following insects - Argentine Stem Weevil (ASW), Porina, Black Beetle and Root Aphid.

"The CM142 endophyte combined with Cropmark's latest ryegrass genetics provides a natural mechanism to increase pasture persistence" Stephane Montel, Cropmark Seeds R&D Manager.



# HP Finishing Mix



## High yield, high quality

A high performance, short term pasture mix designed to provide high quality all-season forage for pastoral finishing systems. This mix is based on Frenzy LE hybrid ryegrass; providing fast establishment and strong winter production, coupled with the added high quality of red and white clovers.

### Suitability / Use

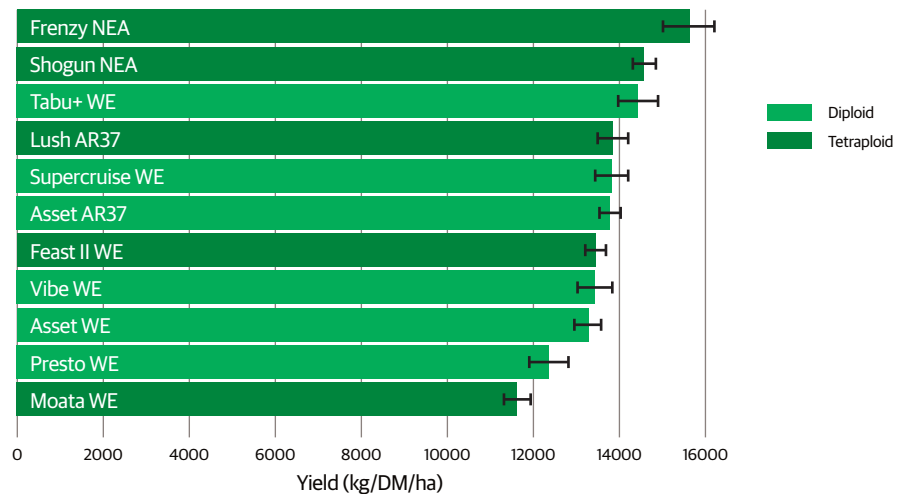
Ideally suited to high performance finishing systems throughout the country, particularly in areas where moisture is more reliable.

You have the option of treated or bare seed. We recommend treated seed to provide increased insect protection for your investment.

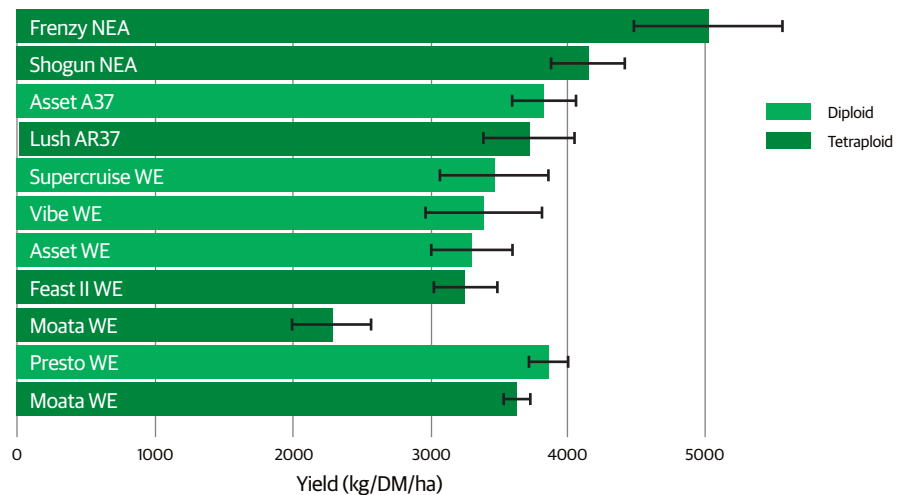
- Frenzy LE hybrid ryegrass
- Reaper red clover
- Demand white clover

- All-round seasonal production
- High quality clover content
- High palatability

### Italian Ryegrass, all of New Zealand Total Yield 0-12 months



### Italian Ryegrass, all of New Zealand Total Yield 12-18 months



The average yield of each cultivar is represented by the end of the green bar, with the variation around the cultivar mean represented by the error bars (match-sticks at the top of the bars). Cultivars where the error bars overlap are not significantly different from each other. \*HP Finishing mix contains Frenzy LE. Data shown is for Frenzy NEA which is available as a custom mix.



# HP Pinnacle Mix



Avatar NEA and Raider NEA2 with Mantra and Demand white clovers combine to create the optimum mix between palatability and persistence through mixing tetraploid and diploid genetics. The HP Pinnacle mix is available now.

## Key Traits

- Blend of high quality tetraploid perennial ryegrass, combined with robust and durable perennial ryegrass
- High animal performance
- A combo of late heading perennial ryegrasses.
- Extremely palatable and persistent
- Contains NEA endophyte
- Suitable for Dairy, Sheep and Beef
- Easy to manage

Avatar NEA is a very high yielding, late heading tetraploid perennial ryegrass that was developed to provide high quality feed to animals while still maintaining high levels of persistence under intense grazing systems.

Raider NEA2 perennial ryegrass is a persistent and high yielding diploid perennial ryegrass which contains the NEA2 endophyte for improved insect pest control and persistence.

## Tetraploid/Diploid Pasture Mixes Offer:

- Improved palatability & Persistent
- High pasture quality, dry matter production and utilisation
- Robust & durable pasture mix
- High level of animal performance
- Better persistence compared with straight tetraploid
- Inclusion of densely tillered diploid to avoid overgrazing

## Sowing and Establishment

The HP Pinnacle mix has the optimum ratio of tetraploid/diploid seeds. Tetraploid seeds are larger than diploid seeds and as such are sown at a higher rate in the mix. Avatar NEA is included at 11kg/ha while Raider is included at 9kg/ha with 3kg/ha of Mantra and 2kg/ha Demand coated White Clovers making up the balance of the mix.

## Mix Suitability

The HP Pinnacle mix is excellent when sown alone, or can also benefit from the inclusion of additional forage species such as Chico Chicory depending on your targets within your farming system.

## Grazing Management

While straight tetraploid mixes are prone to overgrazing from stock, the inclusion of a dense diploid perennial ryegrass in this mix protects the tetraploid plant allowing for easier management.

## Positioning

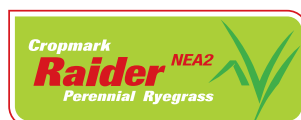
Good fertility, can tolerate lower fertility. OLSEN P 10-18+. From free draining to heavy soils.

## Longevity

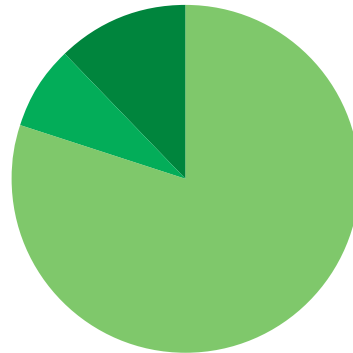
Tetraploid and Diploid Perennial Ryegrass Combination. i.e. long term/permanent pasture 5+ years.

## Stock Suitability

Dairy, Sheep, and Beef.



# HP Dairy Mix Plus



Pre-mixed into convenient 1ha (25kg) size bags.

## NEA2 Endophyte Protection

A very persistent and high yielding diploid perennial ryegrass. Available with NEA2 endophyte for good animal health and insect pest control. Late heading (+ 18 days), with low aftermath heading and densely tillered. Rugged and dependable. Highly ranked for persistence in industry trials.

### Suitability / Use

Ideally suited to high performance dairy systems throughout the country, particularly in areas where insect pressure is higher.

You have the option of treated or bare seed. We recommend treated seed to provide increased insect protection for your investment.

### Contents

- Raider NEA2 perennial ryegrass
- Demand white clover
- Mantra large leaf white clover

### Key traits

- High yielding
- Late heading (+18 days) with low aftermath heading
- Contains the NEA2 endophyte for good animal health and insect control
- Excellent disease resistance

## Agronomic traits

### Raider NEA2 perennial ryegrass

PERSISTENCE	HEADING DATE (DAYS CF NUI)	SOWING RATE (KG / HA)	SOWING DATE	INSECT TOLERANCE
5+ years	+ 18	18-20	Autumn and spring	Good

### Diploid perennial ryegrass

ENDOPHYTE	ARGENTINE STEM WEEVIL	PASTURE MEALY BUG	BLACK BEETLE ADULT	ROOT APHID	PORINA	GRASS GRUB	FIELD CRICKET
AR1	++++	++++	+	2	-	-	Not tested
NEA2	+++	(++++)	+++	++	Not tested	-	Not tested
AR37	++++ <sup>1</sup>	++++	+++	++++	+++	+	Not tested
SE	++++	++++	+++	++	+	-	Not tested
WE	-	-	-	-	-	-	Not tested



# HP Dairy Mix

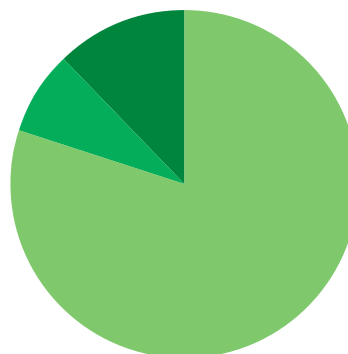
## Quality and quantity

The HP Dairy Mix is designed specifically for the needs of dairy farms in regions where insects such as argentine stem weevil are causing persistence issues. The HP Dairy Mix combines one of the leading perennial grasses for production with a well-known, trusted and persistent, high yielding medium leaf white clover and a large leaf white clover.

### Suitability / Use

Ideally suited to a wide range of high performance dairy or cattle farming systems including irrigated / higher rainfall or dryland, and to both rotational grazing and set stocking.

You have the option of treated or bare seed. We recommend treated seed to provide increased insect protection for your investment.



Pre-mixed into convenient 1ha (25kg) size bags.

### Contents

- Ultra AR1 enhanced perennial ryegrass
- Demand white clover
- Mantra large leaf white clover

### Key traits

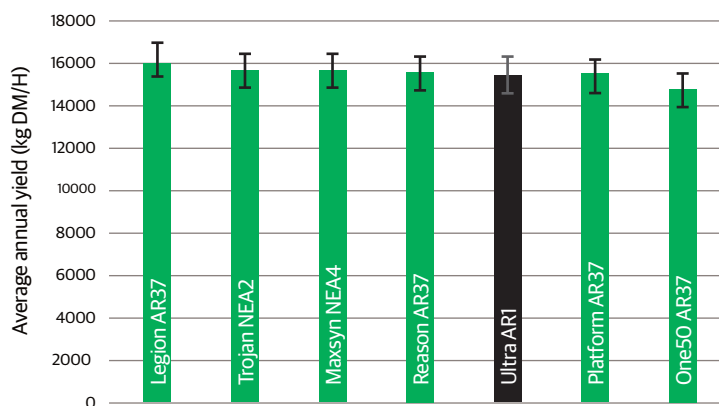
- High year-round pasture production and quality
- Low aftermath seeding
- Excellent grazing tolerance
- High quality clover content

## Pasture components

### Ultra AR1 enhanced perennial ryegrass

ENDOPHYTE	HEADING DATE (DAYS CF NUI)	PLOIDY	RUST RESISTANCE (1 = SUSCEPTIBLE, 9 = RESISTANT)	WINTER ACTIVITY	MIN RAINFALL (ml)
AR1	+ 20	Diploid	9	Very high	500+

Mean Annual Dry Matter Yield of 3 completed years, Cropmark Seeds Ltd *Lolium Perenne* Yield Trial, Burnham NZ 2021-2024 CV% 3.56



The average yield of each cultivar is represented by the end of the green bar, with the variation around the cultivar mean represented by the error bars (match-sticks at the top of the bars). Cultivars where the error bars overlap are not significantly different from each other.

# HP Sheep and Beef Mix

## Production when you need it

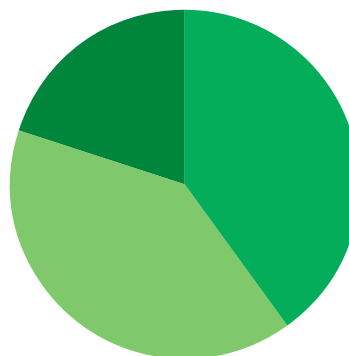
A specially designed animal-safe mix for sheep and beef pastures, based on Ultra AR1 enhanced perennial ryegrass and Raider NEA2 perennial ryegrass; providing increased early spring production and summer quality.

HP Sheep and Beef Mix is designed specifically for increased winter and early spring growth for calving and lambing. Along with high performing perennial ryegrass, it has a trusted and persistent high yielding medium leaf white clover.

### Suitability / Use

Ideally suited to a wide range of high performance sheep, cattle and deer farming systems including irrigated / higher rainfall or dryland, and to both rotational grazing and set stocking.

You have the option of treated or bare seed. We recommend treated seed to provide increased insect protection for your investment.



Pre-mixed into convenient 1ha (25kg) size bags.

### Contents

- Ultra AR1 enhanced perennial ryegrass
- Raider NEA2
- Demand white clover

### Key traits

- High pasture production and quality
- Increased early spring growth
- Densely tillered grasses for increased grazing tolerance
- Animal safe endophyte

## Pasture components

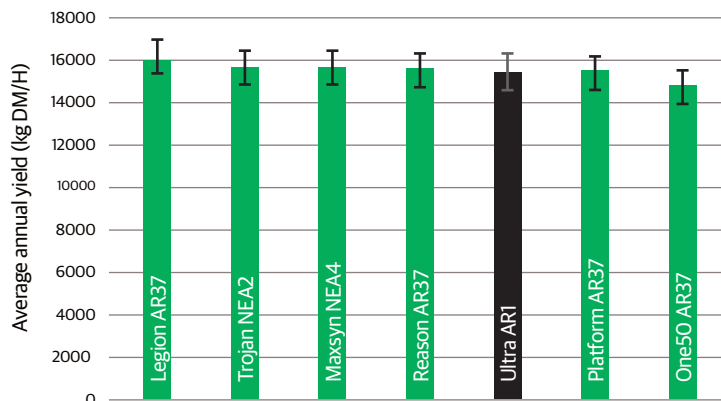
### Ultra AR1 enhanced perennial ryegrass

ENDOPHYTE	HEADING DATE (DAYS CF NUI)	PLOIDY	RUST RESISTANCE (1 = SUSCEPTIBLE, 9 = RESISTANT)	WINTER ACTIVITY	MIN RAINFALL (ml)
AR1	+ 20	Diploid	9	Very high	500+

### Raider NEA2 perennial ryegrass

PERSISTENCE	HEADING DATE (DAYS CF NUI)	SOWING RATE (KG / HA)	SOWING DATE	INSECT TOLERANCE
5+ years	+ 18	18-20	Autumn and spring	Good

Mean Annual Dry Matter Yield of 3 completed years, Cropmark Seeds Ltd *Lolium Perenne* Yield Trial, Burnham NZ 2021-2024 CV% 3.56

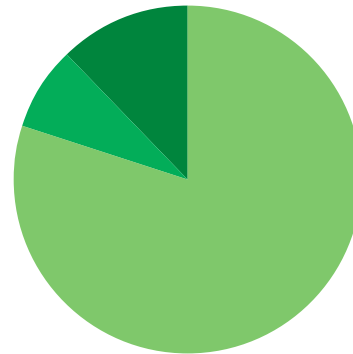


The average yield of each cultivar is represented by the end of the green bar, with the variation around the cultivar mean represented by the error bars (match-sticks at the top of the bars). Cultivars where the error bars overlap are not significantly different from each other.





# HP Endurance Mix



Pre-mixed into convenient 1ha (25kg) size bags.

## Production and persistence

A high performance, persistent pasture mix based on Matrix standard/high endophyte enhanced perennial ryegrass.

### Suitability / Use

Ideally suited to areas where black beetle is prevalent (Waikato, Bay of Plenty, Northland), where persistence is an issue and where farmers are less concerned about grass staggers. Recommended for high performance systems, irrigated or higher rainfall, rotational grazing and set stocking.

Not recommended for animals sensitive to endophyte induced grass staggers such as deer, horses, goats or alpacas.

### Contents

- Matrix SE enhanced perennial ryegrass
- Demand white clover
- Mantra large leaf white clover

### Key traits

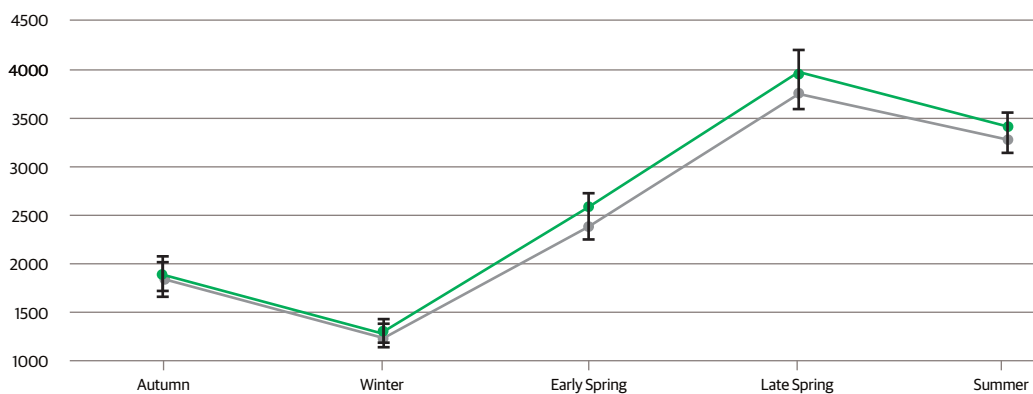
- Proven and reliable high performing diploid enhanced perennial ryegrass
- Strong persistence under insect attack
- Very strong winter, early spring growth providing feed when most needed
- Suitable for full pasture renovation and under-sowing

## Pasture components

### Matrix SE enhanced perennial ryegrass

ENDOPHYTE	HEADING DATE (DAYS CF NUI)	PLOIDY	RUST RESISTANCE (1 = SUSCEPTIBLE, 9 = RESISTANT)	WINTER ACTIVITY	MIN RAINFALL (ml)
Standard Endophyte (SE)	+ 23	Diploid	9	Very high	500+

### Seasonal dry matter yield (kgDM/ha)



Pooled analysis of three 2021 sown yield trials in Canterbury, Waikato and Victoria. Means ± LSD.

■ Matrix SE  
■ One50 AR37



# Options to Add

## Kainui Cocksfoot

Cropmark bred cocksfoot which was selected for leaf density and its soft ryegrass-like leaves which provide it with significantly higher palatability. It is high yielding, summer-dry tolerant and has high tiller density, and very good disease tolerance.

It is well suited for inclusion in pasture mixes or as a specialist pasture in summer-dry areas.



## Chico Dependable Chicory

A high yielding, very high quality, leafy chicory. Chico has fast establishment, rapid re-growth, strong insect resistance and good drought tolerance.

It can also be used as a component of pasture mixes adding extra quality through the summer when other plants come under moisture stress. It is suited for use with sheep, cattle and deer, and can be used throughout the country, particularly in summer-dry regions.



## Oracle Plantain

A late heading plantain selected for high forage yields under grazing. Oracle exhibits fast establishment with very strong year-round growth, especially over late spring, summer and autumn, with high forage quality. Being late flowering compared to many other plantains, Oracle holds its forage quality for longer into spring. Ideal for use as a specialist forage crop, or inclusion in permanent mixtures. Suitable for all livestock types.



## Available on Request

### HP Economy Mix

#### Contents:

22kg VNS Perennial Ryegrass

3kg Uncert/VNS white clover coated

- A low cost perennial pasture mix option
- Contains a perennial ryegrass with a coated white clover

### HP Pasture Repair Mix

#### Contents:

12.5kg VNS/Uncert Italian Bare

12.5kg VNS Perennial Bare

- Designed for over-sowing into run out or damaged pastures
- Contains an italian ryegrass for fast establishment and rapid growth combined with a perennial ryegrass for longer term production



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agri manager to order yours today.

Or call our customer centre on  
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