

# Forage crops for livestock



CHICORY • FORAGE RAPE • KALE • FODDER BEET • SUMMER TURNIP • PLANTAIN



Freephone 1800 889 039

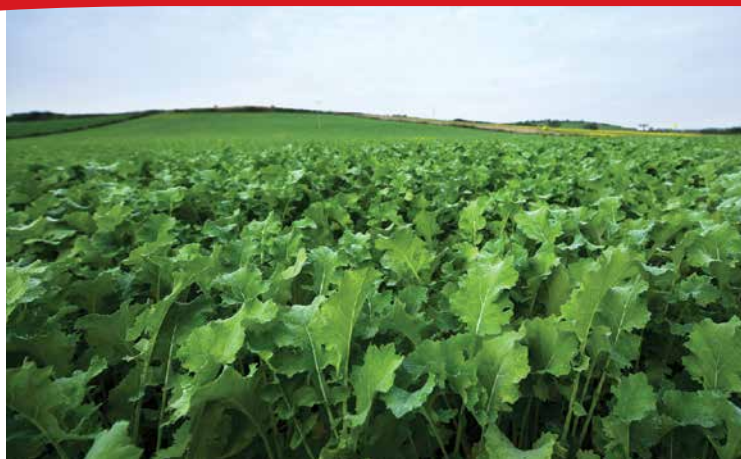
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**CROPMARKSEEDS**  
AUSTRALIA PTY LTD  
*Driving Productivity*



# HIGHER YIELDING MULTI-GRAZE RAPE

Cropmark  
**Pillar**  
Forage Rape



## BENEFITS:

- ▶ Leafy, giant-type multi-graze forage rape
- ▶ Very fast establishing
- ▶ Very high yield potential
- ▶ Very good re-growth potential
- ▶ Good disease resistance
- ▶ Can be sown in spring or autumn
- ▶ Suitable sheep, cattle and deer

## DESCRIPTION:

An exciting new, fast establishing, high yielding, **multi-graze** giant-type forage rape with strong re-growth potential and good disease tolerance.

## SUITABILITY / USE:

Pillar is a new multi-graze forage rape, developed for our farming conditions. It can be used as a flexible 2 – 4 graze forage crop, sown in either spring or autumn to provide fast establishing summer or autumn/winter feed. Pillar is suitable for all livestock types and farming systems and is an ideal break crop as part of a re-grassing programme.

AGRONOMIC TRAITS		
<b>SOWING SEASON</b>	<b>MATURITY (days to grazing)</b>	<b>NUMBER OF GRAZINGS*</b>
SPRING OR AUTUMN	90 – 110	2 – 4
<b>SOWING RATE (KGS/HA)</b>	<b>APHID TOLERANCE</b>	<b>DISEASE RESISTANCE</b>
3 – 4	MODERATE – GOOD	GOOD

\* Subject to management and climatic conditions

## PERFORMANCE:

Pillar has shown consistently high yields, with strong re-growth and good disease resistance in trials. Up to 4-5 grazings have regularly been reported under good conditions.

POOLED YIELD RESULTS - 6 FORAGE RAPE TRIALS, CANTERBURY 2011-2013			
Cultivar	No. of trials	Yield t/ha DM	LSD
<b>Pillar</b>	<b>6</b>	<b>8.96</b>	<b>a</b>
Spitfire	6	8.78	ab
Goliath	5	8.49	abc
HT Rape	2	8.24	abc
Greenland	6	8.23	bc
Winfred	1	7.28	cd
Titan	4	7.05	e
Mean		8.15	
LSD		0.67-1.5	
Sig		***	

# FAST MATURING SUMMER TURNIP



## DESCRIPTION:

The earliest maturing summer turnip available in Australia, Marco is a tetraploid, tankard type, having an interval from sowing to grazing of just 55-65 days. Marco has a high bulb to leaf ratio, with large bulb size and good bulb storage ability. It has high grazing preference, is highly palatable, has excellent bolting resistance and high club root tolerance.

## BENEFITS:

- ▶ The earliest maturing turnip available (only 55-65 days from sowing to grazing)
- ▶ Less time out of production
- ▶ Sowing date flexibility – can be used for late sowing, or where crop failure occurs
- ▶ Two Marco crops in one season are possible
- ▶ Large bulbs, with high bulb to leaf ratio
- ▶ Bulb retains its quality for as long as 90 days after sowing
- ▶ Good resistance to bolting and club root

## SUITABILITY / USE:

Marco can be used as a high yielding summer turnip crop and with all livestock types. Its very short interval to grazing means less time out of pasture and sowing date flexibility. Two crops of Marco in one season are possible. Marco can be late sown such as after previous crop failure.

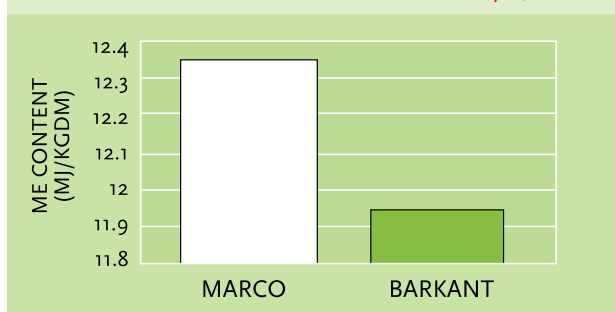
## AGRONOMIC TRAITS

MATURITY (days to grazing)	PLOIDY	SOWING RATE (kgs/ha)	SOWING DEPTH (mm)	BOLTING RESISTANCE	GROWTH PEAK
55 – 65	TETRAPLOID	2 – 3	10	HIGH	SUMMER

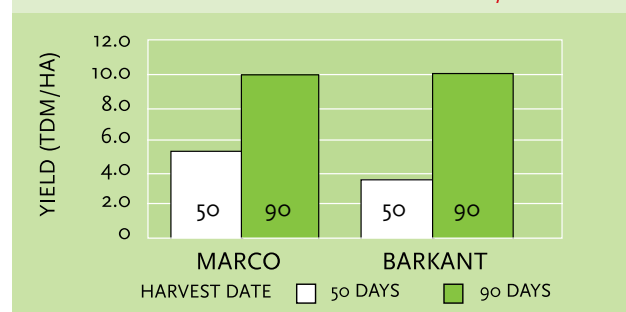
## PERFORMANCE:

Marco is fast establishing and high yielding. It can be utilised earlier, has good bulb storage ability and has high metabolisable energy content. Marco can be grazed as early as 50 days after sowing, but will sit well in the paddock for up to 90 days after sowing.

AVERAGE METABOLISABLE ENERGY CONTENT AT 50 DAYS FROM TWO CROPMARK TRIALS AT OHAUPO AND TE PUKE 2006/07

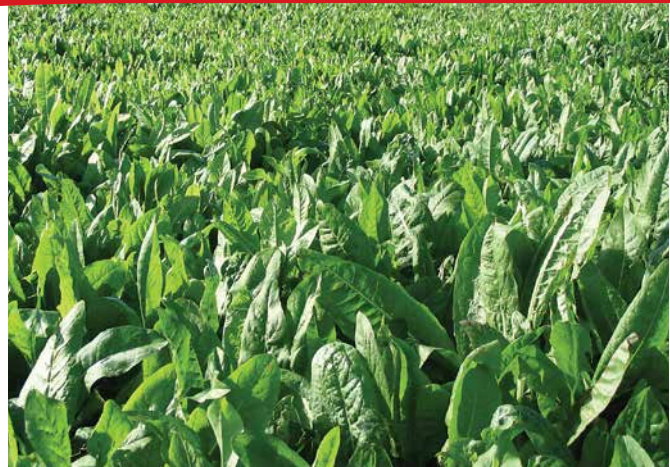


AVERAGE TOTAL DRY MATTER/HA GROWN FROM TWO CROPMARK TRIALS AT OHAUPO AND TE PUKE 2006/07



# ROCKET FUEL FOR LIVESTOCK PERFORMANCE

Cropmark  
**Chico**  
Dependable Chicory



## DESCRIPTION:

A high yielding, leafy chicory showing upright growth, fast establishment, and good drought tolerance due to its one metre long tap root. Chico is noted for its strong summer, autumn growth, providing high quality summer forage. Being very high in energy and minerals, Chico has very high livestock performance potential. **It is diamondback moth and white butterfly tolerant.**

## BENEFITS:

- ▶ Very high quality, high yielding summer forage crop
- ▶ High in metabolisable energy and minerals
- ▶ Very high livestock performance potential
- ▶ Improved drought tolerance due to one metre tap root
- ▶ Fast establishing and flexible grazing management
- ▶ Leafy, succulent and palatable (stock take to it readily)
- ▶ Tolerant of insect pests including diamondback moth and white butterfly

## SUITABILITY / USE:

Chico can be used as a specialist and flexible multi-graze summer forage crop for finishing stock and maximizing milk production, or included as a component of pasture mixes at a sowing rate of 1-2kgs/ha. It is suited for use with all livestock types and for use in summer-dry regions as a summer safe forage.

### AGRONOMIC TRAITS

PERSISTENCE	STOCK PERFORMANCE POTENTIAL	SOWING RATE (kgs/ha)	SOWING DEPTH (mm)	WINTER ACTIVITY	GROWTH PEAK
1 – 3 YEARS	HIGH	6 – 8	10	MEDIUM	SPRING – AUTUMN

## PERFORMANCE:

**Higher stocking rate, higher liveweight gain, higher carcass weights.** Alliance meat company ran two lamb live weight gain trials in Cust (harsh Canterbury dryland site) and Gore, in conjunction with Cropmark. In the trials, stocking rate was adjusted based on feed on offer for each feed option, with the lambs fed ad-lib. **Chico had higher stocking rates, higher live weight gains, more lambs graded prime, with higher carcass weights.**

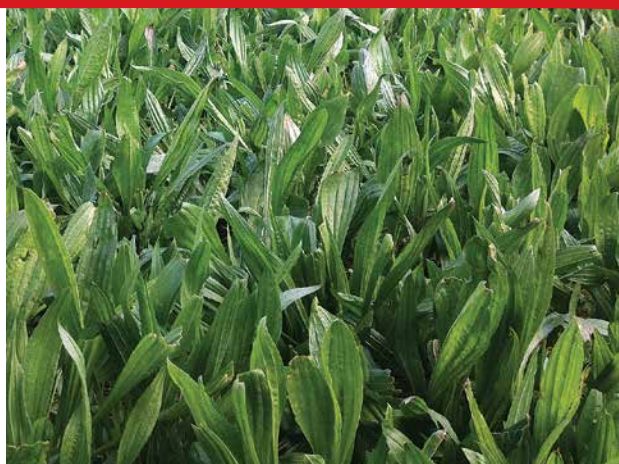
### Alliance meat company lamb live weight gain comparison trial - Gore, Feb/March 2011 (28 days)

	Old Pasture	New Pasture	Swedes	Chico
Stocking rate	16.7	33.3	8.3	37.5
Live weight gain	296	350	364	371
% of lambs 'Prime' (> 44kg LW)	76%	80%	78%	84%

### Alliance meat company lamb live weight gain comparison trial - Cust, Feb - April 2011 (2 months)

	LWG (kg)	AvLWG (g/hd/day)	Carcass Wgt (kg)	Yield (%)
Chicory	8.6	157.1	20.4	50
Pasture	7.9	144.2	18	46
Rape	4.6	84.7	18.81	52

# DRIVING PRODUCTIVITY - SOILS, LIVESTOCK & FARM



**New**

Cropmark  
**Oracle**  
Plantain



## BENEFITS:

- ▶ Higher overall dry matter yields
- ▶ Late heading for carrying quality longer into spring
- ▶ High forage quality and mineral content
- ▶ Good drought and heat tolerance
- ▶ Ideal for use as a specialist forage crop, or inclusion in permanent mixes
- ▶ Suitable for sheep, cattle and deer

## DESCRIPTION:

A late heading, broad leaved plantain bred for high forage yields under grazing. Has very strong year round growth, especially over the late spring, summer and autumn months. Has deep fibrous roots enabling good heat and drought tolerance. Highly suitable for sheep, cattle and deer and for use as a specialist high quality forage crop, or as a component of permanent pasture mixes to improve summer quality. High forage quality for enhancing livestock performance.

## PERFORMANCE:

Exhibits fast establishment with strong year-round growth, especially spring, summer, autumn.

### AGRONOMIC TRAITS

FORAGE QUALITY	HEADING DATE	DROUGHT TOLERANCE	PERSISTENCE	SOWING RATE (kg/ha)	
				AS A FORAGE CROP	IN PASTURE MIXES
HIGH	HIGH	VERY GOOD	2 – 3+ YEARS	8 – 10	1 – 2

### CROPMARK SEEDS PLANTAIN CULTIVAR YIELD TRIAL, CANTERBURY 2016/17 – % YIELD RELATIVE TO MEAN OF TRIAL

Plantain Cultivar	Establishment	Autumn	Winter	Early Spring	Late Spring	Summer	Total (kgDM/ha/yr)	Total (%)
<b>Oracle</b>	<b>103*</b>	<b>124*</b>	<b>127</b>	<b>95</b>	<b>107*</b>	<b>113*</b>	<b>14,647*</b>	<b>113*</b>
Tonic	97	129*	194*	99	84	109*	13,985*	108*
Boston	98	80	65	114*	106*	97	12,532	97
Hercules	94	86	59	91	106*	98	12,402	96
Endurance	85	76	53	86	102*	84	11,394	88
Tuatara	110*	66	47	86	95	90	10,805	83
Trial Mean (kgDM/ha)	542	3,422	357	2,074	3,362	3,154	12,910	100
CV%	13.5	9.9	9.3	7.8	12.5	9.8	7.5	7.5
Significance	ns	P<0.05	?					

Notes to table: \* Denotes that the variety is statistically 'significantly the highest yielding for that season.



# PROVEN HIGH PERFORMING FODDER BEETS

Cropmark

**Geronimo**  
Fodder Beet



## DESCRIPTION:

Geronimo is a mono-germ fodder beet which has a yellow – orange tankard shaped bulb that sits 45% above the ground. It is a high yielding variety with medium dry matter content at 15-17% DM, with very good tolerance to the diseases rhizomania, ramularia and some forms of mildew. The crop can be grazed in-situ, or be lifted and fed whole or chopped.

## BENEFITS:

- ▶ Consistently high yielding with medium dry matter content bulbs
- ▶ Large top growth
- ▶ Very good tolerance to the diseases rhizomania, ramularia and some forms of mildew
- ▶ Very good bolting tolerance
- ▶ Suitable for sheep, cattle and deer for grazing in-situ
- ▶ Available in handy 50,000 seed bags

### AGRONOMIC TRAITS

Sowing season	Spring
Sowing rate (seeds/hectare)	80,000 – 100,000
Maturity (days to grazing)*	200+
Bulb % above ground	+/- 45%
Dry matter %	15 – 17%
Bolting tolerance*	Very good
Disease resistance	Very good

*\*Subject to management and climatic conditions*



Cropmark

**Summo**  
Fodder Beet



## DESCRIPTION:

Summo is a dual-purpose mono-germ grazing and lifting fodder beet variety with large red conical shaped bulbs of medium-high dry matter content. The bulbs have a low dirt tare which make it suitable for grazing or lifting and fed whole or chopped. It has good disease and bolting tolerance.

## BENEFITS:

- ▶ Dual purpose grazing and lifting variety
- ▶ High yielding
- ▶ Medium-high dry matter content variety
- ▶ Very good disease resistance
- ▶ Excellent bolting tolerance
- ▶ Low dirt tare
- ▶ Suitable for sheep and cattle
- ▶ Available in handy 50,000 seed bags

### AGRONOMIC TRAITS

Sowing season	Spring
Sowing rate (seeds/hectare)	80,000 – 100,000
Maturity (days to grazing)*	200+
Bulb % above ground	+/- 40%
Dry matter %	18 – 20%
Bolting tolerance*	Very good
Disease resistance	Very good*

*\*Subject to management and climatic conditions*



# HIGH YIELDING LARGE LEAFED CLOVERS

**New**

**Cropmark**  
**Mantra**  
 Large Leafed White Clover



## DESCRIPTION:

A new and very large leafed mid flowering white clover, with semi-erect growth habit, high stolon number and thick stolons, with medium to high growing point to enable better competition with grass in swards. Has high yields with strong winter, early spring growth, very good persistence and good tolerance to sclerotinia. Best suited to rotational grazing.

## BENEFITS:

- ▶ Very high performance large leafed white clover
- ▶ Highly competitive in grass swards
- ▶ High yielding, with strong winter, early spring growth
- ▶ High stolon density and stolon length
- ▶ Highly palatable, with finer stems
- ▶ Very good disease resistance, including sclerotinia and rust
- ▶ Very good persistence, even under close sheep grazing

## AGRONOMIC TRAITS

LEAF SIZE	PERSISTENCE	SOWING RATE
VERY LARGE	3 – 5 YEARS	4 – 6 KGS/HA
WINTER ACTIVITY	FLOWERING DATE	GROWTH PEAK
HIGH	MID	SPRING – AUTUMN



**New**

**Cropmark**  
**Reaper**  
 Red Clover



## DESCRIPTION:

A high yielding, large leafed, semi-erect growing diploid red clover which is suitable for grazing and for hay and silage. Reaper is a very palatable variety, with fine stems which are less stalky than traditional red clovers and is low in oestrogen levels. It has good disease resistance and strong persistence.

## BENEFITS:

- ▶ Dual purpose grazing and hay/silage use
- ▶ Competitive and compatible in mixes
- ▶ High yielding, with strong winter activity
- ▶ Highly palatable, with finer stems
- ▶ Low oestrogen levels
- ▶ Very good disease resistance, including sclerotinia and rust
- ▶ More tolerant of clover root weevil than white clover
- ▶ Very good persistence, even under close sheep grazing

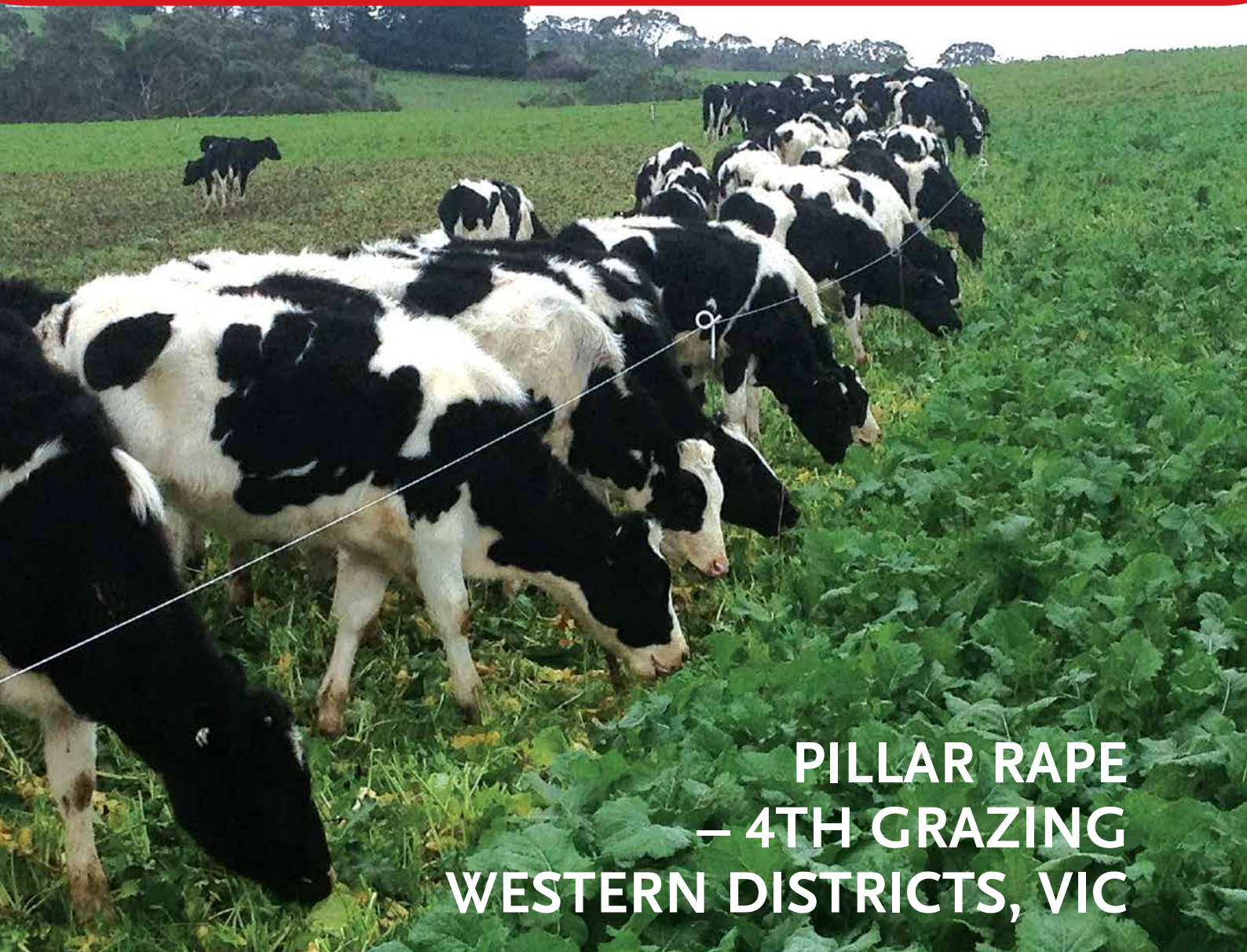
## AGRONOMIC TRAITS

LEAF SIZE	PERSISTENCE	SOWING RATE
LARGE	3 – 4 YEARS	4 – 6 KGS/HA
WINTER ACTIVITY	FLOWERING DATE	GROWTH PEAK
HIGH	EARLY – MID	SPRING – AUTUMN





Seed is available through your local farm merchandise outlets and seed retailers.



## PILLAR RAPE – 4TH GRAZING WESTERN DISTRICTS, VIC

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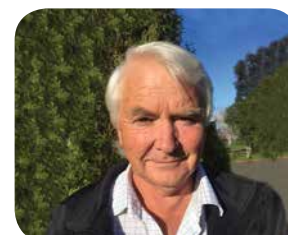


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