

Forage crops for livestock

Driving on-farm productivity



CROPMARKSEEDS
Driving Productivity™

Freephone: 0800 427 676

www.cropmarkseeds.com

Cropmark
Coleor
Kale



THE LEAFIER KALE



DESCRIPTION

A diploid kale, Coleor is a high yielding, very leafy, purplish variety of medium height, with very high leaf-to-stem ratio, typically over 50%. Coleor has high dry matter, digestibility and ME content giving higher livestock performance potential. It has very good winter hardiness, and very good snow loading ability (less likely to fall over when covered with snow compared to many other kales).

WHERE IT FITS

Being a medium stem kale, Coleor is suited to cattle, sheep and deer as a high yielding winter feed crop. Suitable for all areas of the country especially in the cooler regions and foothills due to its very good winter hardiness and snow loading ability. Sown in November or December as a winter feed crop. Can lightly graze in autumn.

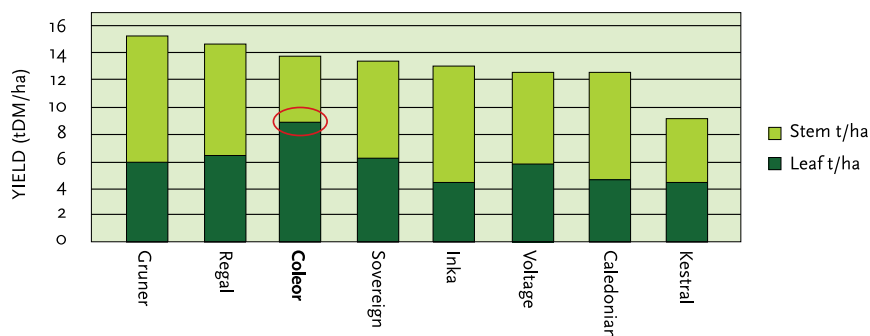
AGRONOMIC TRAITS

STEM HEIGHT	Medium
LEAF : STEM RATIO	Very high
SOWING RATE (kg/ha)	4-5
SOWING DATE	Nov-Dec
SOWING DEPTH (mm)	10-20

BENEFITS

- ▶ Consistently highest leaf-to-stem ratio (more leaf area, and less stem)
- ▶ High plant Dry Matter content
- ▶ High ME and digestibility
- ▶ High yielding
- ▶ Very good winter hardiness and snow-loading ability
- ▶ Medium stem – suitable for sheep, cattle and deer

POOLED YIELD RESULTS OF CROPMARK'S SOUTHLAND & CANTERBURY KALE TRIALS (2010)





DESCRIPTION

A leafy kale of intermediate stem height, with high yield potential. Proteor is a palatable variety with a thin stem and a high leaf-to-stem ratio, ensuring high utilization. Proteor has good winter hardiness and good tolerance of aphids, club root and other diseases.

WHERE IT FITS

Proteor is more suited to cattle grazing where not only yield, but quality is also important. Best sown in November or December as a specialist winter feed crop.

AGRONOMIC TRAITS

STEM HEIGHT	Medium
LEAF : STEM RATIO	High
SOWING RATE (kg/ha)	4-5
SOWING DATE	Nov-Dec
SOWING DEPTH (mm)	10-20

POOLED RESULTS OF TWO CROPMARK KALE TRIALS SOWN 2019 AND 2020, AT METHVEN

Cultivar	Mean DM % of the whole plant	Mean leaf as % of DM	Grazing preference
Coleor	15.73	52.9	High
Proteor	14.33	36.2	High
Corsa	15.90	34.7	Medium
Regal	14.09	35.1	High
Firefly	13.06	39.5	High
SovGold*	15.00	28.5	

Note: * only in 1 year of trials

BENEFITS

- ▶ High yielding
- ▶ High plant Dry Matter content
- ▶ Highly palatable
- ▶ Good winter hardiness
- ▶ Good aphid and disease tolerance
- ▶ Low nitrate and SMCO content
- ▶ A proven performer



DESCRIPTION

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

WHERE IT FITS

Chico can be used as a specialist and flexible multi-graze summer forage crop for maximising summer milk production in dairy cows or for finishing stock in drystock situations. 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.

BENEFITS

- ▶ Very high quality, high yielding summer forage crop
- ▶ High in metabolisable energy and minerals
- ▶ Very high livestock performance potential
- ▶ Improved drought tolerance and nutrient uptake due to deep tap root
- ▶ Fast establishing and flexible grazing management
- ▶ Tolerant of brassica insect pests

AGRONOMIC TRAITS

PERSISTENCE (years) *	2-3
SOWING RATE (kg/ha)	MIXES: 1-2 ALONE: 8-10
DIAMONDBACK MOTH RESISTANCE **	9
WINTER ACTIVITY	Moderate
GROWTH PEAK	Spring - Autumn

* Subject to management and climatic conditions
** 1= Susceptible 9 = Resistant



CHICO (LEFT) VS COMPETITOR VARIETY (RIGHT)



DESCRIPTION

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, it holds its forage quality for longer into spring.

WHERE IT FITS

Ideal for use as a specialist forage crop, or inclusion in permanent mixtures. Suitable for all livestock types.

BENEFITS

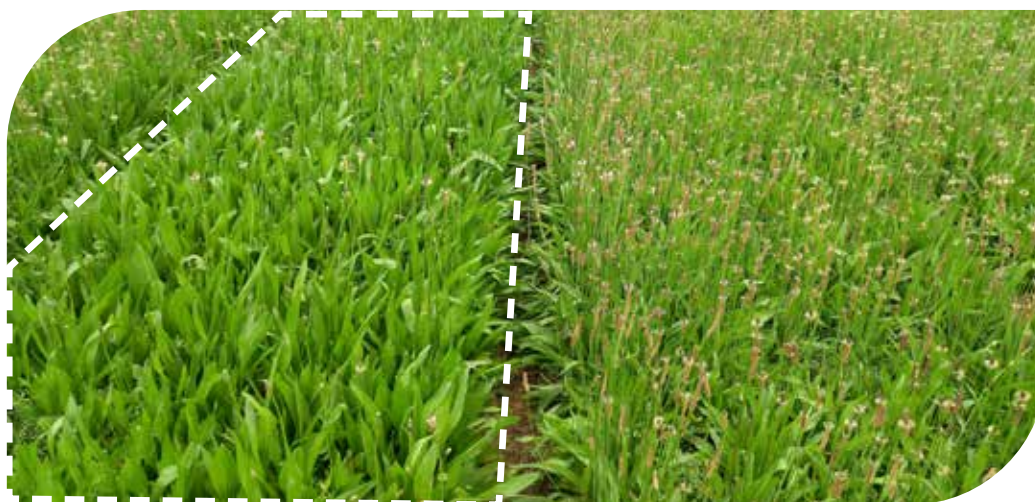
- ▶ A new high performance broad-leaf plantain
- ▶ Higher overall dry matter yields
- ▶ Late heading giving livestock greater quality for longer into spring
- ▶ Higher forage quality and mineral content
- ▶ Good drought and heat tolerance

AGRONOMIC TRAITS

PERSISTENCE (years) *	2-3
SOWING RATE (kg/ha)	MIXES: 1-2 ALONE: 8-10
HEADING DATE	Late
FORAGE QUALITY	High
GROWTH PEAK	Spring to Summer

* Subject to management and climatic conditions

THE LATE HEADING OF ORACLE (LEFT) VS COMPETITOR (RIGHT)



Cropmark
Marco
Tetraploid Turnip



THE EXTREMELY FAST MATURING SUMMER TURNIP



DESCRIPTION

The extremely fast maturing summer turnip available in New Zealand, Marco is a tetraploid tankard type, having a maturity of 55-65 days from sowing to grazing. 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 resistance.

WHERE IT FITS

Marco can be used as a high yielding spring or summer sown turnip crop in all parts of New Zealand, and with all livestock types. Its very short interval to grazing means less time out of pasture and sowing date flexibility. Marco can also be late sown such as after previous crop failure.

AGRONOMIC TRAITS

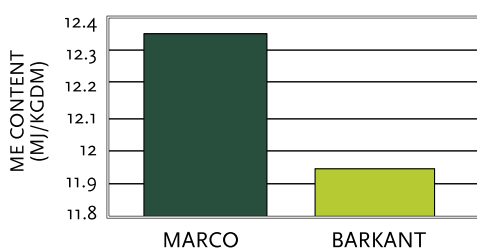
SOWING DEPTH (mm)	10
BOLTING RESISTANCE *	9
GROWTH PEAK	Summer
MATURITY (days to grazing)	55-65
PLOIDY	Tetraploid
SOWING RATE (kg/ha)	3

* 1= Low 9 = High

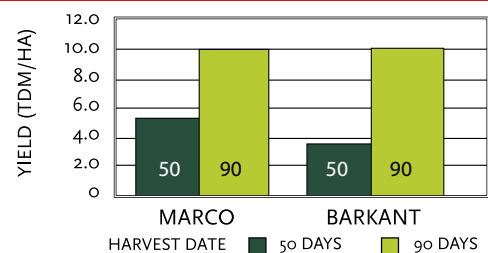
BENEFITS

- ▶ **The extremely fast maturing turnip (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
- ▶ Tetraploid quality traits
- ▶ Available in 25kg and 3kg packs

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



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





DESCRIPTION

A fast establishing, high yielding, multi-graze giant-type forage rape with strong re-growth potential and good disease resistance.

WHERE IT FITS

Pillar is a modern NZ bred forage rape, developed for our farming conditions. It can be used as a flexible 2-3 graze forage crop when sown in spring for summer or autumn feed. Can be sown in summer and very early autumn for winter feed. Can be sown into failed winter feed crops, depending on previous chemical used. Pillar is suitable for all livestock types and farming systems and is an ideal break crop as part of a re-grassing programme.

YIELD RESULTS OF DARFIELD WINTER RAPE TRIAL SOWN 31ST JANUARY 2022 & HARVESTED 5TH MAY 2022

Cultivar	Yield t/ha DM	LSD
Pillar	8.9	a
Greenland	8.1	ab
Spitfire	8.0	ab
Mainstar	7.2	b
Mean (t/ha)	8.15	
LSD	0.67 - 1.5	
Sig	***	

AGRONOMIC TRAITS

SOWING SEASON	Spring or Autumn
MATURITY * (days to graze)	80-100
NUMBER OF GRAZINGS *	2-4
SOWING RATE (kg/ha)	3-4
APHID TOLERANCE	Moderate - Good
DISEASE RESISTANCE	Good

* Subject to management and climatic conditions

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 for sheep, cattle and deer



Your New Zealand owned grass and forage crop breeding and supply company.

Cropmark Seeds Ltd is a New Zealand owned forage plant breeding and supply company.

Managed by experienced, capable and dedicated staff, and based in the heart of the productive Canterbury plains, the centre of New Zealand's arable industry, the company breeds and supplies a range of grasses, clovers, brassicas and forage herbs to New Zealand farmers.

The company's focus is on developing high performance forage varieties that offer farmers very real performance advantages, through improving their livestock performance, farming systems and bottom-line results.

Based at Darfield in Canterbury, Cropmark's plant breeding programme is a highly innovative and professional breeding programme.

Cropmark's unique varieties are bred with the emphasis on delivering improved yield, higher nutritional values and disease resistance, coupled with the ability to provide more quality forage when most needed. Varieties developed by the company are thoroughly trialed and tested on farms to assess their performance capability under varying real-farming conditions prior to their commercialisation, evaluating factors such as yield, forage quality and disease resistance. Only the very highest performing varieties are commercialised providing they perform to the company's stringent selection standards in line with the company's 'driving productivity' philosophy.

As our record to date shows, we have consistently developed forage varieties that have established the benchmark for performance in the pasture industry.

Cropmark Seeds - your New Zealand owned forage plant breeding and supply company.

SEED IS AVAILABLE THROUGH YOUR LOCAL FARM MERCHANDISE OUTLETS AND RETAILERS



**UPPER
NORTH ISLAND**
James Bryan
027 235 4989



**LOWER
NORTH ISLAND**
Matt Kidby
027 230 1783



**UPPER
SOUTH ISLAND**
Liam Martin
027 555 6813



**LOWER
SOUTH ISLAND**
Charlotte Field
027 236 5552



NZ OWNED