



Spring 2017

Newsletter

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Cover Crops—Caliente Mustards

Caliente Mustards are bred specifically for biofumigation, they contain very high levels of the correct glucosinolates (there are many different types, and some do not produce lots of ITC), and high levels of the myrosinase enzyme, in addition they have the potential to grow into large plants producing high levels of biomass and therefore more green tissue to produce ITC when chopped.

Caliente Mustards have been developed over many years, with new blends and varieties developed for performing specific functions, and for growing in different climates and situations. They are not simple green manure or cover crops and should not be confused with fodder mustard which is commonly available as a green manure and will not generate the same biofumigation effect.



When considering disease suppression, it is important to note that the biofumigation aspect is not the only important factor. It is a combination of the biofumigation plus the incorporation of green material into the soil which encourages beneficial microbe multiplication. These beneficial soil microbes play an important part in 'out-competing' pathogenic microbes for space in the soil profile, helping to keep soil disease levels down.

Caliente Brand Mustard 199

Produces excellent biomass with the highest "biofumigation" potential available. Contains ISCI 99, with the highest glucosinolate level of any commercial variety. Excellent disease, weed and nematode suppression in many crops. Responds to good fertility and management. Seeding rate 10-12 kg/ha

Nemat/Caliente 199

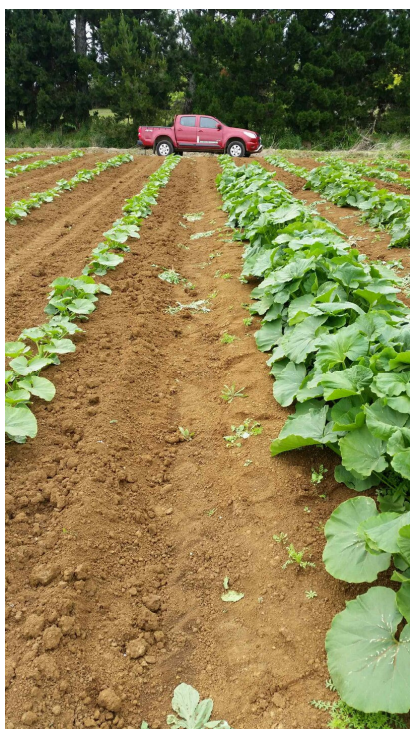
ARUGULA MUSTARD BLEND – Arugula /mustard blend that was designed for high biomass production and improved nematode suppression, especially in IPM programs combined with chemical nematicides. Shows excellent disease and weed suppression also. Seeding rate 7-8kg/ha

Visit our Website at www.seedandfield.co.nz

Crop Covers - Fleece

KEY FACTS—FLEECE

- Fleece is used mainly to control temperature to bring crop maturity forward
- It must be laid tight like a bedsheet and will stretch as the crop grows. It is best secured with soil or sandbags.
- Will last for 1—2 seasons dependent on conditions
- Both fungicides and herbicides can be sprayed through Fleece but the Fleece must be completely dry for it to work.
- Fleece thickness is measured by weight (grams per square metre). Standard roll sizes available ex SFS in Pukekohe is 12.25met wide x 250 met long with Fleece weights of 17,19 and 22 gm/sq metre.



Pumpkins sown early September. The right row was covered with 22gm Fleece from sowing until flowering.



Melon transplants covered with fleece for early establishment



Early crop beans sown 31 August—highlighting difference in growth with 22 gm fleece (left) vs uncovered (right).

The following temperatures were recorded from trials in Mangere in July, demonstrating how temperatures under both net and fleece were affected .

	Surface temp	Soil Temp
Fleece	19.1	12.0
Net	15.3	10.6
Uncovered	14.6	9.7

For more information please visit the Seed and Field Services Website @ www.seedandfield.co.nz or www.cropsolutions.co.uk

Winter Cauliflower

With some traditional favourite cauliflower varieties no longer available, a number of varieties have come to the forefront as replacements in growers programs. With winter brassica programs for next year in the planning, feel free to contact Kenny or Philip to discuss your requirements for 2018.

Naruto—early winter harvest cauliflower from Clause Pacific. Naruto has a tall, tight upright frame with an excellent tight wrap over the flower. The flower are generally well tucked and heavy, with a slightly irregular head shape and brilliant white color.



Seminis SV5965—large framed early winter harvest cauli. SV5965 has shown good adaptability in the early winter slot. It has a tall multi layered frame with a broad leaf. Flowers are smooth and well tucked, with an internal wrap that offers excellent curd protection.



Galiotte—late winter harvest variety from Clause Pacific. Galiotte has been used in the upper and lower North Island for a number of years now, and performs at its best in the coldest months of winter. Galiotte has a broad wide strong frame with a good wrap. Flowers are medium white with a smooth appearance.

Seminis SV5982—late winter harvest cauliflower with a vigorous plant that produces a tall multi-layered frame and a dark leaf. Flowers are generally well tucked and heavy with a smooth white curd. SV5982 has shown good adaptability through both mild and cold winters, and appears to be less prone to “flushing” during changeable conditions than some varieties.



Altair—adaptable winter harvest cauli from Terranova. Altair in its limited trialling to date has two key outstanding features. First one being exceptional disease tolerance to both fungal and bacterial infections. The second one is its white high domed smooth flowers that offers great presentation on the shelf. Looks to be at its best for early winter harvest but potentially could be used right through winter in some regions.

Product Profiles—Grey Pumpkin and Butternut

Nelson—Early maturing “bush type” pumpkin grown commercially for a number of seasons. Nelson has been used successfully for early season pumpkin production setting medium sized fruit that has good early internal colour . Nelson has superior flavour compared to other “first early” crown varieties.



Sampson - The outstanding feature of this Hybrid pumpkin is it's bright orange attractive internal colour, which is evident even at harvesting. It has a small seed cavity with a high shoulder and produces a large heavy fruit. Ideal pumpkin for the cut segment market. Has shown impressive potential for storage over a number of seasons, and noticeably slower to pinking than most other varieties.



Monarch— long standing market standard that is still popular with many pumpkin growers. Very good main crop performer with superior sets of deep/blocky pumpkin. Good size uniformity, with average pumpkin weight generally 4 to 6 kg. Attractive external and internal colour.



Waltham Butternut—market standard open pollinated butternut proven over a very long period to be a reliable and adaptable variety. Very sweet flesh makes for great flavour. Sold per 500gm.

Havana—Hybrid butternut with very uniform fruit shape and a concentrated fruit set, that are a similar size to Waltham. Pack sizes are 1000 or 5000 seeds.



Jacqueline—Hybrid butternut for growers wanting a larger fruit size. Average fruit weight is 1.5kg with a “blocky” fruit shape. Jacqueline has a small seed cavity with a thick flesh. Pack sizes are 1000 or 5000 seeds.

Filmcoating

A thin polymer material is used with only a very slight weight build-up. Filmcoating bonds combinations of colour, fungicides and/or insecticides to the seed. The outer layer, containing the colour, encapsulates the seed and any chemicals, offering a very clean and dust free product, which contributes to the safety of the handler and the environment. Filmcoating does not change the seed size, but will change the count based on the build up. Filmcoating makes the seed flow more easily and aids in plantability.

Crop	Target Pest/Disease	Chemical	Active Ingredients
Pumpkin/Squash	Damping Off Diseases	Apron XL	Metalaxyl
		Carbenz	Carbendazim
		Captan Flo	Captan
	Argentine Stem Weevil, Grass Grub Beetle, Springtail, Lucerne Flea & Aphids.	Gaucho 600FS	Imidicloprid



Product Profiles—Sweetcorn

Springfield —Early maturing, bi-colour sweet corn that can be used right through the season. Well filled cobs with tight husk wrap giving protection from birds. Nice short plant that is quick and easy to pick. Cobs are up to 18cm in length. Excellent eating.

Also available is Springfield RR (Rust Resistant) and Springfield Plus (Rust Resistant and MDM virus resistant).

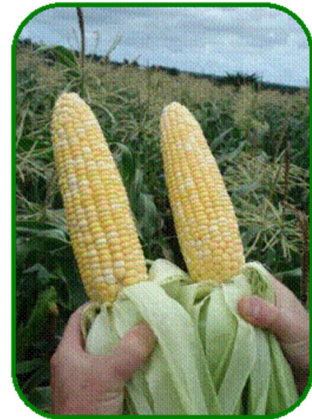


Cumberland—Vigorous, early maturing, bi-colour sweet corn with good cob fill. Nice short plant with good attachment and good eating quality. Cobs can grow up to 18cm in length.

Harvest early/main season

EX08705788—Main season bi-colour sweet corn offering large sized cobs. Nice strong plant and cob fill with good husk tip cover. Medium time to mature and has good eating qualities! Great crate filler with cobs typically 20cm+ long.

Main season harvest



Summer Iceberg

NEW

Green Moon—new mid summer Iceberg from Clause Pacific—Green Moon in trials to date has shown outstanding ability to handle the mid summer heat. Green Moon produces a large frame with upright leaves, and attractive green well filled heads. Trials to date have shown exceptional uniformity giving high percentage first cuts. Green Moon harvests best from late January until mid April. Nas Resistant with DMR 16-26,28,31-32



Spring Brassica Sowing Suggestions

Cauliflower—

Summerlove—	Sow July to January
Nova—	Sow June to January
Highfield - (Clubroot Resistant)	Sow July to December

Cabbage—

Green Cabbage	
Lambada —	Sow July to March
Burlesque -	Sow July to November

Red Cabbage	
Red Baron	Sow year round

Broccoli—

Liberty	Sow July to January
Serenity	
Arcadia	

Spring Lettuce Sowing Suggestions

Iceberg—

Albanas	Sow from July to end of August
Casino	Sow from August to January
Green Moon	Sow from late November to end of December



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