

CROP GUIDE 2021/2022



BRASSICA









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The Customer acknowledges that all purchases from Fairbank's Selected Seed Co. Pty Ltd ("Fairbanks") are subject to and governed by Fairbanks standard terms and conditions of trade ("Terms of Trade"), a copy of which is available from Fairbanks upon request.

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Any figures or data stated are for general comparative purposes and are not absolute values. All information provided in the attached material is intended as an introductory guide only and must be considered by potential purchasers in the context of location, climate, soil type and conditions and any other relevant growth and development factors. Accordingly any purchases are made on the basis that the customer acknowledges and agrees that-

- Seed products will not necessarily be suitable for a given location, soil type, climate or season;
- b) It will not purchase seed products from Fairbanks unless it has prior to placing any order obtained specific advice from a suitably qualified agronomist or direct from Fairbanks as to the desirability of growing the relevant seed
 - (i) In the location;
 - (ii) At the time; and
 - (iii) Under the conditions that it is proposed the seed will be grown;
- c) It will in utilising any seed purchased from Fairbanks, follow accepted industry best growing practices and seek and follow suitable agronomy advice at all times; and
- d) Fairbanks recommends that in all cases a small scale trial of the relevant product be conducted at the proposed site of production at the appropriate seasonal timing to test the suitability of the product for local conditions.
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Liability of Fairbanks is limited as set out in the Terms of Trade.

- 4. NO WARRANTY AS TO AVAILABILITY
 - a) Whilst Fairbanks will use its best endeavours to ensure that it is able to provide Products to the Customer when required, it does not warrant or guarantee that it will be able to do so and will not be responsible for any losses alleged to have been suffered by the Customer as a result of failure to supply or delay in supplying Products, regardless of the reason for the failure to supply. In this regard the customer acknowledges that availability of seed is unpredictable and, irrespective of whether seed or other Products are marketed by Fairbanks, no representation of ability to supply is given by Fairbanks to the Customer.

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b) Fairbanks retains the absolute discretion at all time to refuse to accept any order made by the Customer for Products.

DISEASE RESISTANCE

Resistant is the ability of a plant variety to restrict the growth and development of a specified pest or pathogen and/or the damage they cause when compared to susceptible plant varieties under similar environmental conditions and pest or pathogen pressure. Resistant varieties may exhibit some disease symptoms or damage under heavy pest or pathogen pressure.

Two levels of resistance are defined:-

High standard resistance (HR): plant varieties that highly restrict the growth and development of the specified pest or pathogen under normal pest or pathogen pressure when compared to susceptible varieties. These plant varieties may, however, exhibit some symptoms or damage under heavy pest or pathogen pressure.

Moderate/Intermediate resistance (IR): plant varieties that restrict the growth and development of the specified pest or pathogen, but may exhibit a greater range of symptoms or damage compared to high/standard resistant varieties. Moderately/Intermediately resistant plant varieties will still show less severe symptoms or damage than susceptible plant varieties when grown under similar environmental conditions and / or pest or pathogen pressure.

ABBREVIATIONS

Brassicas – Broccoli, Brussels Sprouts, Cabbage, Chinese Cabbage, Cauliflower

Foc:1 = Fusarium yellows race 1

(Fusarium oxysporum f.sp. conglutinans)
Clubroot (Plasmodiophora brassicae)



BROCCOLI



Clubroot Resistance

McLaren F

NEW

syngenta.

A new warm season broccoli with the industry leading Syngenta clubroot resistance gene, known as TopRes. This is a breakthrough for growers experiencing clubroot losses over the summer

> periods. HR: Pb0,1,3

harvest and planting



NEW

Balard F₁

Balard is a new winter (SE QLD) and spring season harvest broccoli from Syngenta. Medium-large size plant frame with upright habit and good harvest visibility. Heads are high domed, smooth with good bead uniformity and firmness.



NEW

Batory F₁

A new warm to shoulder season harvest broccoli from Syngenta which does well in the drier conditions of Western Autralia. Batory has a uniform head shape with medium green colour. Medium sized upright vigorous plant with semi-open habit. Heads are very dense with uniform beads.



BROCCOLI





Warm season harvest broccoli.
Marvel has heavy, mid-set heads
on a compact plant. It is quite
fast and uniform to maturity. CMS
breeding for added uniformity.



Montevideo F₁

A cool season harvest broccoli from Syngenta with extended growing periods and excellent field holding ability. It produces premium quality heads with exceptional uniformity. The heads are very firm with a high dome shape and thick stems.



Prophet F₁

A cool season harvest broccoli with a medium to fine bead, thick butt with a good tolerance against purpling. Prophet is an industry standard due to its outstanding reliability and slow bolting in the spring timeslot.

BABY BUNCHING BROCCOLI



Matrix F₁ (SBB003)

An exciting sweet baby broccoli for bunching, designed for multiple picks, increasing yield potential.

This baby bunching broccoli is a loose head type, with a sweet and tender stem that forms highly attractive bunches, rivalling the current market standards.



BRUSSELS SPROUTS - EARLY





Gustus F₁

Gustus is a medium maturing early season variety. It has excellent sprout spacing and high yield capabilities. Gustus is ideal for hand and machine harvesting.

Luminus F₁

Luminus is later maturing for the early season slot. Promising results, showing high yield potential on a medium sized plant with an upright habit. Excellent uniformity in sprout shape and size.

BRUSSELS SPROUTS - MID





Abacus F₁

Abacus is an early maturing midseason variety. It is a high yielding variety which produces excellent, dark green, medium size sprouts. Abacus is ideal for hand and machine harvest. HR: Foc1.

Crispus F₁

Crispus has resistance to most races of Club Root. It is an early to medium maturing variety for the mid-season with strong field holding ability. Crispus is high yielding and produces smooth high quality sprouts.

HR: Pb:0,1,3.

Cyrus F₁

Cyrus is a medium maturing midseason variety. It has high yield capabilities. Cyrus sprouts have a small butt, a consistent size grading and are of outstanding quality.

HR: Foc1

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BRUSSELS SPROUTS - MID



Gladius F₁

Gladius is a medium maturing, mid-season variety. Oval and firm sprouts, with mild taste. Bush is upright and produces consistent shape and size sprouts. Sprouts are smaller in size, potential for the baby sprout market.



Lewitus F₁

Lewitus is a medium maturing mid to late season variety. Lewitus bush has a upright plant habit. Producers medium green, oval, solid sprouts.



Maximus F₁

Maximus is a medium maturing mid-season variety. It provides a good plant length with a very nice cylindrical set. Maximus produces high quality sprouts with small butts. HR: Foc1



Gigantus F₁

Gigantus is a medium to late maturing variety for the mid to late season. It is a very vigorous variety which requires reduced nitrogen inputs. Gigantus produces large quantities of uniform medium size sprouts.



Martinus F₁

Martinus is a medium to late maturing mid-season variety. Producing firm, medium green, uniform oval shaped sprouts on a medium sized plant.



Cobus F₁

Cobus is an early maturing late season variety. Excellent quality sprouts with a rounded shape and nice green colour. Compliments other late season varieties by offering a slightly earlier pick.



BRUSSELS SPROUTS - LATE



Thamus F₁

Thamus is a early maturing, midlate season variety. Large uniform, well-filled sprouts with a darkgreen colour. Sprouts have good uniformity and size, on a medium plant frame.



Cobelius F₁

Cobelius is a late season variety with early to medium maturity. Sprouts are green in colour, oval in shape. Sprouts are dense and firm which results in greater weight and ultimately higher yields. Bush is strong, upright and de-leafs well.



Albarus F₁

Albarus is a medium maturing late season variety. It produces high quality, firm, well filled sprouts which are very uniform and provide a mild taste.



Batavus F₁

Batavus is a medium maturing late season variety with very good frost tolerance. Produces excellent quality, dark green, medium sized sprouts. Good plant length with very nice cylindrical set. Excellent plant sturdiness and uniformity.



Cryptus F₁

Cryptus produces very uniform high quality sprouts with excellent field holding ability. It is a medium maturing variety for the late season. It has resistance to most races of Club Root.

HR: Pb:0,1,3



Petrus F₁

Petrus is a late season variety, with medium maturity and good holding ability. Sprouts are very dark green in colour, good quality, highly uniform and easy to hand pick.

HR: Foc1



BRUSSELS SPROUTS - LATE



Profitus F₁

Profitus is a medium maturing late season variety. Its strong sturdy plant grows taller than most in the late season producing very high yields of uniform firm green sprouts with a round shape.



Trimstar F₁

Trimstar is a new medium maturing, late season variety. Round, dark green coloured sprouts with a very dense head fill. Good uniformity of sprouts on an upright sturdy bush.



Splendus F₁

Splendus is a late maturing, late season variety. Very dark green coloured sprouts, with an oval shape. Sprouts are tight and uniform, on a dark colour plant.



Frivole Green F₁

A new type of Brussels sprouts which is a cross between Brussels sprouts and curly kale, for the mid to late seasons. The result is a unique green sprout with frilled edges to the outer leaves.



Frivole Red F₁

A new type of Brussels sprouts which is a cross between Brussels sprouts and curly kale, for the mid to late seasons. The result is a unique red sprout with frilled edges to the outer leaves.





CABBAGE





Kilaplon F₁



NEW

Gallican F₁

Kilaplon is 4.5-6kg white cabbage with resistance to most races of Club Root. It is suitable for warm to cool season harvesting. Kilaplon has a large plant frame with reasonable thrip tolerance. Not suited to spring harvest. It is ideal for fresh market and processing markets. IR: Pb:0,1,3.

Gallican is small to medium sized hybrid green cabbage of 2-3kg. Early maturity time with exceptional uniformity yet good field holding ability. High yielding variety with globe shaped heads on a sturdy, upright frame. Packs well into the crate, being ideal for both fresh and export market. HR: Foc:1







Maxfield F₁ syngenta.

Maxfield is approx. 2.5kg white

cabbage with resistance to most

races of Club Root. It is suitable

for warm to cool and cool to

cool harvest. Maxfield has a nice

round shape, with good internal

structure and a sweet taste.

HR: Pb: 0,1,3.



Red cabbage, approx. 2kg. Suitable for all year round production. Remala has shown some standards and has a very long field standing ability. Good internal structure with excellent

Remala F₁

Warrior F₁

improved bolting tolerance versus round head shape. HR: Foc:1

The reliable market standard for cabbage in Qld and NSW. Warrior is a 2.5 to 4.5kg white cabbage. It is suitable for warm to cool and cool to cool production. Warrior produces flat round heads with a small core and excellent internal structure.

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Aerospace F₁

A hybrid cauliflower from Syngenta for shoulder season harvest. Large sturdy upright frame with good curd protection. Smooth dense white curd, flat dome shape and nice tuck. Excellent results in WA with exceptional uniformity to maturity.

Akara F, **NEW**

A new hybrid cauliflower for shoulder/cool season harvest. Dense, smooth white curds with good field holding ability. Excellent curd protection.

syngenta.

Amerigo F₁

Amerigo is suitable for warm season production. It has a medium sized frame and good internal protection. Amerigo has a vibrant, dense white curd which is suitable for fresh market production.







Brittany F,

Autumn/Spring/Early Summer cut in Southern Australian regions, approx. 12-13 weeks, good vigour, upright and adaptable. Curd is well covered and protected from the sun. Very good versatile winter variety in South East Oueensland, Perfect for fresh market and processing. www.fairbanks.com.au

Clarify F₁

A hybrid cauliflower with resistance to most races of Club Root for summer production in Stanthorpe, Old. Semi-upright habit with a medium size frame. Well protected dome shaped head with a white curd weighing up to 1.2 - 1.5kg. Relatively quick to mature with very good uniformity. HR: Pb 0,1,3.

Clarina F₁

Clarina has resistance to most races of Club Root and is suitable for autumn production. It has a semi-erect plant habit with good internal protection. Clarina produces firm, dense, high quality white curds. HR: Pb:0,1,3.





Gohan F₁

A hybrid cauliflower for summer and autumn harvest. It has a strong frame with an excellent internal wrap. Produces an outstanding quality, dense, bright white curd that has a nice tuck. Strong tolerance to tip-burn.



NEW Claforsa F₁

A new hybrid TopRes white cauliflower from Syngenta.

Medium to large, semi-upright frame with good uniformity to maturity. Claforsa has resistance to most races of Club Root.

HR: PB 0,1,3

NEW Cleozil F₁

A new hybrid white cauliflower with resistant to most races of club root for warm season harvest from Syngenta. Extremely uniform variety with high yield potential, on a medium, upright frame. Smooth white curd, with attractive presentation for fresh market. HR: Pb 0,1,3



NEW Draconis F₁

An exciting new cauliflower for autumn and spring harvest. Large upright plant with great field holding ability. Outstanding curd protection with very high yield potential. Quick maturing variety, with CMS breeding it is also extremely uniform.

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A later maturing cauliflower for cool season harvest. Lestren has a strong upright frame with a thick leaf and excellent internal protection. Smooth dense curds are set high off ground level allowing ease of harvest. Trials to date have shown strong field holding ability and some tolerance to ricing under stressful conditions.



NEW

Koten F₁

A new large white cauliflower from Syngenta for cool season production. Koten has a medium to large sized healthy frame with excellent wrap, giving added curd protection from the elements. It has a bright white curd, with good tuck and density.



Highfield F₁ topRe syngenta

Highfield has resistance to most races of Club Root and suitable for warm season production. It produces a high quality, smooth, white curd. Highfield has a medium size plant frame and internal protection. HR: Pb0,1,3.



Monarch F₁

Monarch is suitable for shoulder and cool season production. It is very adaptable in varying conditions with good internal protection. Monarch produces smooth, white, dense curds suitable for fresh market.



Raleigh F₁

Raleigh is suitable for warm season production. It has a non-pinking gene to prevent seasonal curd discolouration. It has medium internal protection, a smooth white curd and excellent uniformity to maturity.









A new hybrid bright orange cauliflower from Syngenta. The vibrant coloured curd is a very intense orange with excellent colour uniformity. Best harvested from mid spring to mid autumn.



Green Storm F₁

An exciting new lime green cauliflower from Syngenta for spring and autumn harvest. Uniform plants with an upright habit. Good curd density and tuck.



NEW

Depurple F₁

A purple hybrid cauliflower from Syngenta with a medium frame, and good uniformity. Smooth, dense purple curds. Best performance is in cooler conditions.



Flame Star F₁

An orange cauliflower from Syngenta with a large plant frame, and semi upright habit. Smooth, light orange curds with medium density and dome shaped head. Best harvested from autumn through to spring.



Graffiti F₁

A purple hybrid cauliflower from Syngenta with upright growth habit for easy harvest. Graffiti can be harvested at different maturity stages, performs best in warmer conditions. Colour intensifies with higher light levels.



CHINESE CABBAGE - GREEN





Kilakin is a Chinese cabbage with resistance to most races of Club Root. It produces dark green outer leaves, has a classic shape and very nice internal structure. An excellent option for growers with Club Root problems. HR: Pb 0,1,3.



Yuki F₁

Relatively slow bolting variety, with uniform maturity. Dense internal structure. IR: some Australian races of Club Root.



CHINESE CABBAGE - RED



Hallasan F₁

Outstanding quality Red
Chinese Cabbage with
beautiful internal bright pink/
red leaf colour and pale pink
stems. The leaves have a
crunchy texture, a mild sweet
flavour and excellent shelf life.
Medium to large size heads
with a uniform cylindrical
shape. Best grown outside
of the main bolting pressure
periods for Chinese cabbage.



Jirisan F₁

Robust Red Chinese Cabbage, medium to large size with a uniform cylindrical head shape. Pale red outer leaves with medium pink/red internal colour. Good tolerance to bolting. Perfectly suited as both a fresh salad ingredient or for use in Asian style cooking.



Manibapa F₁

Slow bolting Red Chinese Cabbage. Produces uniform, well filled, tall oval shaped heads. Vivid red internal colour with dark red exterior leaves. Stronger field holding ability than Hallasan in bolting pressure periods.



PAK CHOI



Miyako F₁

An outstanding hybrid green stem pak choi for bunching. Miyako is early to mature, compact and suitable for all seasons. Miyako is renowned for its fantastic dark green colour and uniformity. It has good tolerance to bolting and to some Australian races of Club Root. Market leading variety for all segments.



Mini-Pak F₁

Mini green stem pak choi ideal for bunching. Uniform size and excellent shape. Dark green, smooth, elongated leaf shape. Upright stems with compact plant habit. High-end finished product, presenting beautifully when bunched.



Joi Choi F₁

Slow bolting, early maturing white stem pak choi. Also known as Bok Choi, market leader for this segment.



Mini-Joi F₁

Mini white stem bok choi for bunching. Uniform growing habit with a compact plant and smaller leaves. Vivid bright, white stems and dark green glossy leaves.

High-end finished product, presenting beautifully when bunched.

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CHINESE BROCCOLI - LEAF



Gazza F₁

Hybrid leaf type Chinese broccoli (kailaan). Dark green and glossy leaves with a slightly pointed paddle shape. Medium sized leaves on a short main stem, ideal for bunching. Very uniform growth rate, allowing a one-pass harvest.

CHINESE BROCCOLI - STEM

Frank F₁

Hybrid stem type Chinese broccoli (Kailaan). Produces thick tender stems with rounded green leaves, excellent uniformity. Best suited to cooler seasons, but can be harvested all year round.





KALE - BABY LEAF



Baby Tuscan

A much improved Tuscan kale variety for baby leaf production. It is very dark green in colour with quite savoyed leaves. This variety is perfect for the premium baby kale market.



Baby Curled

NEW

A new green curly kale variety for babyleaf production. Nice mid green colour with attractive curled leaf margin and 3D shape. Good vigour for reliable crop establishment, good yields and extremely uniform crop.



Red Russian

Attractive, frilly edged green kale with a vibrant red stem. The plant can grow relatively large if left to develop, but it is usually harvested small and cut for baby leaf. Prized for high anti-oxidant levels.



Purple Russian F1

Sensationally dark purple coloured hybrid baby kale. Finely serrated leaf with a fine stem attachment and outstanding uniformity. Thick leaf with great durability and improved shelf life for processing. Very similar leaf shape to traditional Red Russian kale, making it ideal for specialty baby leaf mixes.



Toscano Black

Toscano Black is a Mediterranean or Tuscan kale, with heavily savoyed, dark green leaves, with a long and slender shape. Toscano can be harvested at the baby leaf stage, but also grown to a bunching stage.

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KALE - BUNCHING



Tuscany

An improved selection of Tuscan kale for bunching. It's leaves are noticeably darker green than Toscano and the plant has better bolting tolerance.



Midnight Magic

Midnight Magic is a Tuscan kale (also known as black cabbage) which has been specifically bred for the premium bunching market. It has vibrant dark green leaves with a long slender shape and heavy savoy texture.



Kobolt F₁

A dwarf dark green hybrid borecole (curly) kale. Plants are sturdy and upright, approx. two thirds the height of regular borecole kale. Large leaves with shorter stems, ideal for bunching or processing markets.



Winnetou F₁

A dark green hybrid borecole (curly) kale with very good holding ability and winter hardiness. Good quality leaves with a dark blue-green colour, leaves are thick with a very curly shape.

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SYNGENTA TOPRES Fairbanks Seeds CLUB ROOT RESISTANCE Clubroot is a widespread disease that causes serious problems in many Brassics Company Brassics Company

Clubroot is a widespread disease that causes serious problems in many Brassica growing areas. The disease is caused by a pathogen known as Plasmodiophora brassicae, a single-cellular organism. Symptoms of the disease include root malformations with hard swellings (clubs), that eventually rot. The disease also causes stunting through reduced growth, and the wilting of leaves due to the roots failing to function effectively. Chemical control of the disease is not effective. Therefore, good genetic resistance of the crop is important for its protection against the disease.



Syngenta has developed a monogenetic dominant native trait which provides high resistance to clubroot for varieties of the Brassica oleracea species (including cauliflower, broccoli, cabbage, Brussels sprouts, and others). This resistance is known as TopRes™, and is currently available in a selection of cabbage, cauliflower, broccoli and Brussels sprout varieties. To identify which commercially available Syngenta varieties carry this resistance, just look for the TopRes™ symbol next to selected varieties in this crop guide.





The advantage of this gene is evident in the surrounding photos (all taken in Australia) and can mean the difference between harvesting a crop or losing it all. We suggest using TopRes™ varieties in your crop rotation as a form of insurance against this devastating pathogen in fields where the disease is present or expected to be present.





Clubroot Disclaimer: Resistance against clubroot is effective against the predominant strains but not against infrequent clubroot strains that may occur in some fields. At present limited information is available on the identification of these strains and their occurrence. Genetic resistance is only one of the tools to manage clubroot. Culture measures such as liming, use of fertilizers with high percentage of calcium, proper drainage, good crop hygiene management are several of important components of an integrated approach to manage the disease. We always recommend to conduct small variety trials before starting commercial production of a new variety.

NOTES

Carrier Control

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Anthony Ladds

General Manager 0417 388 081 aladds@fairbanks.com.au

Georgia Stormont

Product Development Manager TAS Manager 0408 153 835 gstormont@fairbanks.com.au

Peter McEvoy

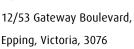
Potato Portfolio Manager **Product Development Agronomist** SE Melbourne Sales 0437 191 899 pmcevoy@fairbanks.com.au

Andrew Ertler

Product Development Agronomist/Sales Eastern Victoria 0400 422 924 aertler@fairbanks.com.au

Phone: (03) 8401 3346 Fax: (03) 8401 3347 sales@fairbanks.com.au





George Jelbart

National Sales Manager 0427 351 761 gjelbart@fairbanks.com.au

Ethan Merton

SA Manager Western & Northern Victoria Sales Leafy & Brassica Crops Manager 0400 624 060 emerton@fairbanks.com.au

Myralyn Aguda

NSW Manager, Product Development Agronomist SE QLD 0427 669 811 maguda@fairbanks.com.au

Andrew Smyth

WA Manager 0428 117 366 asmyth@fairbanks.com.au

Grant Macqueen

QLD & NT Manager 0409 158 084 gmacqueen@fairbanks.com.au

Head Office Brendan Foley

Warehouse Manager & Sales Dai Nguyen

Warehouse Assistant & Sales **Paul Shepherd**

Supply & Logistics Manager

Lorraine Babic

Business Support Team

Brooke Garlick

Business Support Team

Jigisha Kapadia

Business Support Team

Sally Jelbart

Marketing Manager











Sales: sales@fairbanks.com.au Accounts: admin@fairbanks.com.au



Fax:

Phone: 03 8401 3346

03 8401 3347



www.fairbanks.com.au





