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2021 PRODUCT GUIDE

**Terranova**  
SEEDS



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DISCLAIMER: All cultural information and recommendations are provided as guides only. Local environment conditions or growing practices adopted may influence varietal performance. Terranova Seeds Pty Limited or its representatives will accept no liability as to the accuracy of the information.





## RESISTANCE ABBREVIATIONS

Bl	Bremia lactucae (Downy Mildew)
Ccu	Scab and Gummosis
Cmm	Bacterial Canker
CMV	Cucumber Mosaic Virus
CVYV	Cucumber Vein Yellowing Virus
CYSDV	Cucurbit Yellow Stunting Disorder Virus
DMR	Downy Mildew Resistance
ET	Northern Corn Leaf Blight
F	Fusarium race 1, 2 or 3 as noted
Ff	Leaf Mould (Fulvia)
LMV	Lettuce Mosaic Virus
MDMV	Maize Dwarf Mosaic Virus
N	Nematode
Nr	Nasonovia Aphid Resistance
PepMoV	Pepper Mottle Virus
PM	Powdery Mildew
PRSV	Papaya Ringspot Virus
PS	Common Rust
PSI	Angular Leaf Spot
Pst	Bacterial Speck
PVY	Potato Virus Y
RS	Bacterial Wilt
Tm	Tobamovirus
TMV	Tobacco Mosaic Virus
TSWV	Tomato Spotted Wilt Virus
TYLCV	Tomato Yellow Leaf Curl Virus
V	Verticillium Wilt Race 1
WMV	Watermelon Mosaic Virus
Xcv	Bacterial Spot
ZYMV	Zucchini Yellow Mosaic Virus
IR	Intermediate Resistance
MR	Moderate Resistance

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# ASPARAGUS

VARIETY	MATURITY FROM TRANSPLANT	SPEARS	SPEAR COLOUR
<b>HYBRID</b>			
<b>U.C. 157 (F1)</b>	1 year from planting	Spears initiated in clusters of 3 - 5	Deep green
Earlier production due to increased vigour. Extended harvest period for cylindrical, uniform spears.			


# BEANS

VARIETY	MATURITY FROM SOWING	PLANT HABIT	POD TYPE	COLOUR
<b>DWARF</b>				
<b>BORLOTTI</b>	9 - 11 weeks	Dwarf	Flat, string 15 - 16cm	Mottled red
Culinary bean used fresh or dried. Attractively coloured.				

# BEETROOT

VARIETY	MATURITY FROM SOWING	BULB COLOUR	INTERNAL COLOUR	BULB SHAPE
<b>OPEN POLLINATED</b>				
<b>DETROIT SUPREME</b>	9 weeks	Blood red	Deep red	Globe
Suitable for fresh market or processing. Attractive colour.				
<b>EARLY WONDER TALL TOP</b>	8 weeks	Blood red	Dark red	Slightly conical
Tall tops suited to bunching. Some slight zoning present.				
<b>HYBRID</b>				
 <b>AMUR</b>	9 weeks	Dark red	Dard Red	Globe
<b>NEW.</b> Very strong, upright tops with excellent smooth bulbs. Suitable for bunching, baby beets and the processing industry. Heat tolerant – perfect for hotter growing conditions.				
<b>FOUR ACES</b>	9 weeks	Dark red	Blood red	Globe
Excellent quality, attractive bulb, very upright with bright green tops. Suited to bunching.				
<b>MONO RED</b>	9 weeks	Dark red	Dark red	Globe
Smooth dark red beet with attractive shape and a small tap root. Medium sized dark green erect tops. Good internal colour with little zoning. Suitable for bunching, baby beet or bulbs.				






# BROCCOLI

VARIETY	MATURITY FROM TRANSPLANT	HEAD TYPE	HEAD COLOUR
<b>HYBRID</b>			
 <b>CORATO</b>	9 – 11 weeks	Domed head, medium/fine beads	Blue green
Corato is a strong plant that produces a domed head with attractive blue/green colour. The heads sit high in the plant for ease of harvest and has very few leaves to clean compared to other commercial varieties. Harvest uniformity is outstanding.			
<b>DYNASTY</b>	10 – 12 weeks	Well domed head, medium bead size	Deep green
Dynasty is a fast maturing variety that produces well domed, heavy heads consistently across a range of conditions. It is highly adaptable and has shown good performance against white blister in Australian trials. Should be trialled against Kuba, Ironman and Aurora.			
<b>IMPERIAL</b>	11 - 12 weeks	Fine bead, nice dome	Dark green
Shoulder variety. Good uniformity and good White Blister tolerance in our trials.			
<b>MARATHON</b>	11 - 12 weeks	Well domed, very fine beads	Deep green
Quality heads for cool season production. Reliable industry standard.			

# CABBAGE






VARIETY	MATURITY FROM TRANSPLANT	HEAD TYPE	WEIGHT	HOLDING ABILITY
<b>GREEN</b>				
<b>HYBRID</b>				
 <b>GREEN CORONET</b>	15 - 17 weeks	Flattened globe, medium green	4 - 4.5kg	Excellent
Adaptable variety, current industry standard.				
 <b>SAMBA</b>	14 - 17 weeks	Semi globe, dark green	3 - 5kg	Good
<b>NEW.</b> Very uniform, medium-large, green cabbage with an attractive blue-green colour. Bred by Takii as a replacement for the highly popular Green Coronet. Performs well in Autumn, Winter and Spring. Highly resistant to Black rot.				
<b>RED</b>				
<b>HYBRID</b>				
<b>RED QUEEN</b>	9 - 10 weeks	Globe shaped	1.5 - 1.6kg	Good
Excellent dark red glossy colour. Solid head with good taste and soft texture. Best results in Winter.				
 <b>SCARLET</b>	10 - 11 weeks	Globe shaped	2 - 2.5kg	Excellent
<b>NEW.</b> Very productive red cabbage with good internal structure and intensive red colour. Head is globe shaped and very solid. Excellent field holding ability.				
<b>SAVOY</b>				
<b>HYBRID</b>				
<b>SAVOY KING</b>	13 - 15 weeks	Flattened globe, medium green	4.5 - 5kg	Poor
Savoy type leaf, very popular on all markets.				
<b>SPECIALTY</b>				
<b>HYBRID</b>				
 <b>STAR BRIGHT</b>	7 - 8 weeks	Globe, green	1 - 2kg	Fair
Exhibits good tolerance to heat and is late bolting. Attractive deep green colour, excellent soft texture and a very good taste.				

# CAPSICUM





VARIETY	MATURITY FROM TRANSPLANT	FRUIT COLOUR	FRUIT SIZE	FRUIT SHAPE
<b>HOT</b>				
<b>HYBRID</b>				
 <b>AMIGO</b>	10 weeks	Dark green to red	10 x 3.75cm	Jalapeno
Jalapeno type. High yielding dark green fruit; will not purple (anthocyanin). Shows some tolerance to cracking. Adaptable under a range of conditions. Scoville: 3,500 – 6,000.				
 <b>DAGGER</b>	15 weeks	Dark green turning red	18 - 20 x 1.5cm	Elongated
Cayenne type. Strong, vigorous plant with early maturity and high yield. Uniform, smooth, dark green fruit turning red at maturity and very pungent. This variety has good set in cool conditions and is suitable for open field or protected cropping.				
 <b>FURNACE</b>	12 weeks	Green to red	4 - 5 x 3cm	Lantern
Habanero type. A vigorous plant that provides prolonged, high production yield. Uniform large fruit that are red at maturity. Aromatic and very hot. Scoville: 200,000.				
<b>FUSION</b>	12 weeks	Green to red	4 x 5cm	Strawberry
Turning green 75 days from transplant and red 85 days from transplant. Provides good cover and high yields. Medium wall thickness, Sweet taste followed by intense heat.				
 <b>LEXUS</b>	10 weeks	Green to red	7 x 4cm	Jalapeno
Jalapeno type. Early maturing (65-70 days). Excellent yield with high quality fruit; very thick wall. Uniform dark green; firm; tolerant to crazing and purpling. Delivering consistent heat with average Scoville 10,000-12,500. Ideal for both fresh and processing markets.				
 <b>SATAN</b>	10 weeks	Green to red	7.5 - 10cm	Slight club shape
Serrano type. A semi-indeterminate plant type that produces an abundance of uniform, heavy chilli with excellent shelf life. Very dark green, turning red at maturity. Scoville: 3,500 – 6,000.				










# CAPSICUM

VARIETY	MATURITY FROM TRANSPLANT	FRUIT COLOUR	FRUIT SIZE	FRUIT SHAPE
<b>SWEET</b>				
<b>HYBRID</b>				
 <b>DEVITO</b>	12 – 13 weeks	Bright yellow	8 – 8.5cm	Blocky
Uniform fruit size, excellent firmness and nicely shaped fruit lobes. Very balanced, strong plant. Smooth colour transition from green to yellow with long colour retention preventing the fruit blemishing. Early maturity and excellent post harvest storage makes this capsicum an excellent choice for loose pack as well as 'Traffic Lights' packaging. Resistance Tm 0-2 / TSWV				
 <b>DUCADO</b>	10 weeks	Yellow to red	20 x 6cm	Bullhorn (Banana)
<b>NEW.</b> Early maturing sweet banana capsicum. Hybrid with high yield and great adaptability on medium size plant. Smooth fruit, mostly straight with length up to 20cm and very uniform. Resistant to TMV and Xcv.				
 <b>MANDRAKE</b>	12 – 13 weeks	Green to red	15 x 8cm	¾ Lamuyo
High quality, large fruited capsicum for low tech production. Elongated blocky/Lamuyo fruit with 3-4 lobes averaging 15 x 8cm. Excellent dark green colour – turning glossy red. Open plant habit, high yielding with excellent setting ability. Heavy fruit with shallow shoulder and thick walls. Excellent shelf life. High Resistance – Tm:0-3; PVY-0. Intermediate Resistance – TSWV:0; Ma/Mi/Mj				
 <b>MILDRED</b>	12 - 13 weeks	Dark green to bright yellow	9 x 10cm	Blocky
Medium sized, heavy fruit with shallow shoulder and good wall thickness. Firm with long shelf life. Suitable for outdoor and shade house. Tm 0-2; PVY 0-2; TSWV; Xcv 1-3 resistant.				
 <b>RELAMPAGO</b>	10 - 12 weeks	Green to red	9 x 9cm	Blocky
Strong plant producing an exceptional quality indoor blocky pepper which is a bright glossy red at maturity. Outstanding firmness and shelf life with an average weight of 200 – 230 grams which is maintained throughout the plant. Relampago has the ability to set under high temperatures. Intermediate resistance to TSWV.				



# CARROT

VARIETY	MATURITY FROM SOWING	ROOT DIMENSION	COLOUR	TOPS
<b>IMPERATOR</b>				
<b>OPEN POLLINATED</b>				
<b>ALL SEASONS</b>	12 - 16 weeks	22 x 4cm	Pale orange	Very strong
Adaptable standard OP variety.				
<b>KURODA</b>				
<b>OPEN POLLINATED</b>				
 <b>KURODA</b>	16 – 18 weeks	18 x 4cm	Deep orange	Medium-Strong
<b>NEW.</b> Wedge shaped, tapered root with blunt tip. Bright orange, smooth attractive roots. Medium/strong tops with good attachment. Medium early maturity. Average bolting tolerance for an OP. Good tolerance against cracking. More suited to warm season production.				
<b>HYBRID</b>				
 <b>CCO-018</b>	16 - 18 weeks	18 x 4cm	Deep orange	Strong
Very smooth, blunt end Japanese style. Sweet, succulent and brittle.				
<b>NANTES</b>				
<b>OPEN POLLINATED</b>				
<b>DARCY</b>	12 – 16 weeks	17-20 x 4cm	Bright orange	Medium-Strong
Good shape with bright orange colour. Can be used for fresh market or processing. Root has blunt end and a fine core.				
<b>HYBRID</b>				
 <b>BRISTOL</b>	12 – 16 weeks	20 x 2-3cm	Dark orange	Medium-Strong
<b>NEW.</b> Dark green foliage with strong stem attachment. Extremely smooth, uniform dark orange roots with excellent internal colour. Good field holding. Highly adaptable for bunching and pre-pack.				
  <b>LIVERPOOL</b>	12 – 16 weeks	18-20 x 3-4cm	Dark orange	Medium-Strong
<b>NEW.</b> Nantes variety with high yields and great colour. Liverpool carrot combines strong tops with good attachment. Excellent tolerance to breakage makes it best suited for Winter harvest in Qld, Vic, SA, and WA. Good performance year around in Tasmania.				






# CAULIFLOWER

VARIETY	MATURITY FROM TRANSPLANT	CURD	WRAP
<b>OPEN POLLINATED</b>			
<b>SELECTION 174</b>	13 - 15 weeks	Creamy white, deep, heavy	Well protected by inner leaves
A reliable standard variety.			
<b>HYBRID</b>			
 <b>ALTAIR</b>	16 – 18 weeks	Well domed, white	Very large, swirling wrap
Altair is a medium/large framed variety with an exceptionally good swirling wrap. The well protected curds are domed and very white with good weights. It has good leaf disease tolerance and uniform maturity. Should be trialled for Winter and very early Spring harvest.			
 <b>CRENIQUE</b>	12 – 14 weeks	Medium, well tucked	Large, swirling wrap
Medium-large framed cauliflower with a very upright growth habit. Medium sized, white curd with good tuck. Well protected with a large swirling wrap. Excellent uniformity at harvest reduces harvest costs. Should be trialled in Autumn in cooler southern climates and Autumn - early Winter in warmer areas.			
 <b>ESTATIQUE</b>	13 – 16 weeks	Medium/large size. Well tucked, dense	Large, swirling wrap
Estatique is an Australian bred CMS hybrid with a medium / large frame and good tolerance to common leaf diseases. The curds are well protected with a large swirling wrap which prevents premature yellowing from exposure to the sun. Should be considered for Winter production in warmer northern regions and during Spring in cooler climates.			
 <b>MOONSHINE</b>	10 – 12 weeks	Medium, well tucked, very dense curds	Medium, swirling wrap
Australian bred CMS hybrid. Vigorous, erect plant with excellent heat tolerance for warm season harvest are the main characteristics of this variety. Quick maturing with good tip burn tolerance under stress. Medium size frame with good wrap. High quality curds are deep and round.			
 <b>PRESTIQUE</b>	10 – 11 weeks	Well tucked, heavy	Medium, swirling wrap
<b>NEW.</b> Trialled as TCF 8146. This variety produces well tucked, heavy curds. Suitable for Summer/Autumn harvest in southern markets and early Summer and Autumn harvest in Queensland. Exceptionally uniform cut-out rate, with very good tip-burn tolerance. Trial in Moonshine slots.			
 <b>SERENITY</b>	10 – 12 weeks	Medium, well tucked, dense curds	Medium, swirling wrap
<b>NEW.</b> Serenity is a new Australian developed CMS hybrid from ENZA. The variety has good heat tolerance and great curd protection. It produces dense, heavy, white curds. Has shown extremely good field tolerance to Verticillium wilt and other common leaf diseases. For Summer harvesting in the southern markets or in the transition period in Queensland and W.A.			
 <b>TWISTIQUE</b>	14 – 16 weeks	Well domed, white	Very large, swirling
<b>NEW.</b> Harvesting in southern markets through late autumn and winter. This variety develops nice robust frame with heavy white dense curds. Distinguishing feature are upright twisted leaves neatly protecting the curd.			



# CELERY

VARIETY	MATURITY FROM TRANSPLANT	PLANT HEIGHT	PETIOLE
<b>HYBRID</b>			
 <b>GREEN GIANT</b>	16 - 20 weeks	55 - 60cm	Glossy, petiole up to 30cm
Hybrid variety suitable for cooler planting times.			
 <b>SIERRA</b>	16 - 20 weeks	60 - 65cm	Very dark green with long petiole
Very long petiole length with excellent harvest uniformity. Little to no side shoots. Useful tolerance to bolting and black heart. Suitable for Spring / Autumn and Winter production.			

# CUCUMBER





VARIETY	MATURITY FROM SOWING	FRUIT SHAPE	FRUIT COLOUR
<b>LONG EUROPEAN</b>			
<b>HYBRID</b>			
 <b>CARONTE</b>	8 - 9 weeks	32 - 36cm	Dark green
Recommended for Spring & Autumn production. Caronte has a strong plant that produces an abundance of dark green fruit. Good disease tolerance to PM, CVYV and CYSDV.			
 <b>CARRANZA</b>	8 - 9 weeks	32 - 36cm	Dark green
Dark green fruit with an attractive rib. Produces good length in cool conditions. Disease resistance CVYV and CYSDV.			
 <b>REBECCA</b>	8 - 9 weeks	30 - 35cm	Very dark green
Vigorous plant with short internodes. Easy to grow in all conditions. Excellent shape and dark green coloured fruit HR: Cca / Ccu   IR: Px / CVYV / CYSDV			
<b>BEIT ALPHA (PROTECTED)</b>			
 <b>ROYAL CROWN</b>	7 - 9 weeks	16 - 19cm	Dark green
Uniform fruit, dark green with good ribbing. Medium open plant – easy to manage. Suited to warm production in southern markets, autumn and early spring in Queensland. Semi-multi set with a good quality fruit and no neck. Resistance to CVYV, CMV, ZYMV, PRSV, Px, Ccu			
 <b>RYAL</b>	7 – 8 weeks	15 – 17cm	Dark green
<b>NEW.</b> Easy to manage, highly productive multifruit cucumber. Medium vigour open plant, setting high quality uniform dark fruit, with a good rib. Disease resistance: HR ZYMV			

# CUCUMBER


VARIETY	MATURITY FROM SOWING	FRUIT SHAPE	FRUIT COLOUR
<b>SLICER</b>			
<b>OPEN POLLINATED</b>			
<b>GREEN GEM</b>	8 – 9 weeks	Blocky ends, 20 x 5cm	Medium green
Adaptable variety but lower yield than hybrids.			
<b>HYBRID</b>			
 <b>CAMELOT</b>	8 – 9 weeks	Blocky ends, 23 x 4.5cm	Very dark green
Camelot is dark green, matures in 60 days, and holds length well. It has excellent disease tolerances. High tolerance to Powdery and Downy Mildew. Low tolerance - CMV, Anthracnose, ALS, Scab, ZYMV, PRSV, and WMV. <i>Contains pollinators @ 12%.</i>			
 <b>SUPERIOR</b>	6 – 7 weeks	22 – 25cm	Dark Green
<b>NEW.</b> Gynoecious slicer with excellent fruit quality and a very attractive dark green colour. Cylindrical and straight. Due to its multi-virus resistance, it maintains its size and shape when other varieties are affected under stress or virus pressure. Superior possesses consistent fruit uniformity and very high yield throughout extended picks.			
<b>SPECIALTY</b>			
<b>OPEN POLLINATED</b>			
<b>CRYSTAL SALAD</b>	9 - 10 weeks	Blocky ends, 10 x 7cm	Creamy white
Very mild flavour, but minimal disease resistance.			
<b>HYBRID</b>			
<b>BURPLESS TASTY GREEN</b>	7 - 8 weeks	Long tapered, 25 x 4cm	Green
Long thin fruit, best grown on a trellis system for straight fruit. Low acid.			
<b>CLARION</b>	6 - 7 weeks	L / D 2.5	Mid-green
A productive, beautifully shaped pickler. It brines well and has shown to be widely adaptive. Tolerant or resistant to Scab, Angular Leaf Spot, Anthracnose, Powdery Mildew and Downy Mildew.			












# EGGPLANT

VARIETY	MATURITY TRANSPLANT	PLANT HEIGHT	FRUIT SIZE	FRUIT SHAPE	FRUIT COLOUR
<b>HYBRID</b>					
 <b>COSMOS</b>	11 - 14 weeks	80 - 100cm	8 x 21cm	Elongated tear drop	Glossy black
Medium erect open habit, sets well throughout the plant cycle – will suit long cycle. Oval long shape with spineless fruit. For outdoor or protected cropping. Very dark, glossy colour, average fruit weight 410-430 grams.					
 <b>DARKO</b>	11 – 12 weeks	100 – 180cm	12-20 x 3-6cm	Long	Dark, shiny black
<b>NEW.</b> High quality mini long eggplant. Vigorous plant characterised by short internodes and excellent leaf cover. Fruit are very uniform, glossy, and spineless. Fruit size ranges from 120-250g. Excellent fruit set in hot and cold periods. Suitable for greenhouse and open field cultivation					
 <b>LISBON</b>	16 - 18 weeks	80 - 100cm	16 x 11cm	Tear drop	Very glossy black
Suitable for plastic tunnel / protected cropping. Excellent yield potential. Smooth, shiny black colour. Firm seedless flesh. Small green spineless calyx.					
 <b>ORESTIA</b>	12 - 15 weeks	100 - 160cm	23 x 7cm	Tear drop	Very glossy black
Vigorous plant, with short internodes and good leaf cover. Spineless fruit, 490-520 gr. Semi-long very uniform fruit, firm and very shiny black colour. Suitable for Spring-Summer cultivation in protected space.					


# ENDIVE

VARIETY	LEAF TYPE
 <b>TOPAZ</b>	Curly
Fine curly-type endive. Strong large frame. Ideal for bunching.	


# HERBS

VARIETY	MATURITY FROM TRANSPLANT	LEAF TYPE
 <b>BASIL GENOVESER</b>	7 - 8 weeks	Shiny, dark green spoon shaped leaf
Suitable for fresh cut or processing. High yielding.		
 <b>BASIL MARIAN</b>	7 - 8 weeks	Dark green, medium sized leaf
Pot variety in the Genoveser type. Strong against tip burn and leaf damage in the packing phase. Improved cold tolerance secures a transport phase under problematic conditions.		
 <b>BASIL PICCOLINO</b>	7 - 8 weeks	Small leaf
Very compact growing basil with a strong aroma. Ideal for pot growing and original pesto.		
 <b>BASIL ROSIE</b>	7 - 8 weeks	Dark red colour
Rosie has intense dark red colour with compact and upright growth on robust stems.		
 <b>CHIVES BIGGY</b>	6 – 9 weeks	Round leaf
A thick shafted variety with dark blue-green leaf colour. Upright plant habit. Excellent for fresh market, forcing and processing.		
<b>CHIVES GARLIC</b>	6 – 9 weeks	Flat grass-like leaves to 30cm
Mild garlic flavour. Good for bunching.		
 <b>CHIVES STARO</b>	9 weeks	Thick hollow leaves to 25cm in length
Extra thick leaved for all growing purposes. Suitable for outdoor, forcing and pots.		
<b>CORIANDER SLOW BOLT</b>	7 - 9 weeks	Large flat light green aromatic leaves
A slow bolting version of this herb. Most popular in Asian and Middle Eastern cookery.		
 <b>DILL ELLA</b>	8 - 11 weeks	Fine structure
Dark green plants with a lot of leaf tips. Very short hypocotyl that gives Ella a very compact plant. Very stable – suitable for pot production.		
 <b>DILL GOLDKRONE</b>	8 - 11 weeks	Fine structure
Especially high yielding. Late flowering.		
 <b>DILL GREENSLEEVES</b>	8 - 11 weeks	Fine structured medium-dark green leaf
A very stable, dark green leafy type. Suitable for fresh bundles. Strong against bolting and is suited for all year production.		






# KALE

VARIETY	MATURITY FROM TRANSPLANT	FOLIAGE	USE
HYBRID			
<b>FLORENCE</b>	10 – 12 weeks	Distinctive very dark leaves with a heavy savoyed leaf texture	Can be used for bunching or baby leaf market
Strong vigorous plant. Very uniform plant and leaves. Slow bolting in Spring. Florence has a rich, intense and slightly sweet flavor which may be used in a number of different ways			
 <b>KAPITAN</b>	10 – 11 weeks	Dark green colour, finely curled	Bunching market
<b>NEW.</b> A mid-early variety. Upright plant habit making it very easy to harvest. The leaves are dark green colour and finely curled. Very tolerant to cold temperatures.			







# KOHL RABI

VARIETY	MATURITY FROM SOWING	BULB COLOUR	BULB SHAPE
HYBRID			
 <b>OCTAVE</b>	6 – 8 weeks	White to slight green	Round
Very sturdy semi-upright plants. Large leaves. Variety grows well in hot conditions.			

# LEEK







VARIETY	MATURITY FROM SOWING	SHANK	HABIT
<b>HYBRID</b>			
 <b>CHINOOK</b>	15 – 17 weeks	Long white	Upright
Very uniform leek for Spring and Summer production. Good bolt tolerance with a long white shaft length and dark green leaves. Heavy weight.			
 <b>COMANCHE</b>	18 – 19 weeks	Long white	Upright
This Autumn/early Winter hybrid produces leeks with very long shanks that size up early and are easy to peel. Comanche has an upright plant habit and dark green foliage. It is suitable for both bunching and prepack.			
 <b>NAVAJO</b>	18 – 19 weeks	Long white	Very upright
Blue/green leaf type for late Autumn, Winter and early Spring production. Very upright plant with a long white, firm shaft. Easy peeling and cleaning with high yield potential.			
 <b>OSLO</b>	17 – 19 weeks	Long, white shank	Upright
Dark blue-green leaf combined with its high cleaning efficiency. It has a high production of uniform shafts that are easy to peel. It performs well in the bolting slot. Suitable for late Winter and Spring production.			
 <b>TAKRIMA</b>	18 – 19 weeks	Long white	Very upright
Thinner stem type suitable for pre-packs and bunch. Highly suitable for direct seeding. Very upright plant with a long white shaft and mid green leaves. Easy cleaning with year round potential.			

# LETTUCE - ICEBERG








VARIETY	MATURITY FROM TRANSPLANT	HEAD TYPE	DISEASE RESISTANCE	SEASON
 <b>FALCON</b>	10 - 11 weeks	Medium sized, mid green		Cool
A Vanguard style lettuce capable of producing highly uniform, medium sized heads under very cold conditions. This variety produces plenty of cover leaves and the texture is very heavily savoyed which gives it good protection from frost. Sure heading and a very short core makes it very suitable for the processing market.				
 <b>FENECH</b>	8 - 9 weeks	Medium sized, dark green		Shoulder
A Vanguard style lettuce for use in the shoulder period. An adaptable variety that is very sure heading under difficult conditions. Mid-sized frame and heads with a short core.				
 <b>HEATMASTER</b>	7 - 9 weeks	Medium		Warm
Medium size Vanguard type for warm season production. Ideally the variety needs to be grown in the warmest part of the growing season for best results. Heatmaster is very uniform and has excellent tolerance to tip burn and bolting.				
 <b>HOLYFIELD</b>	7 - 9 weeks	Large		Warm
For growers needing more size in warm season production, Holyfield is capable of producing a larger head size than industry standards yet maintaining a short core and tip burn tolerance. Suitable for processing due to increased head weight through warmer temperatures.				
 <b>MONTEREY</b>	7 - 8 weeks	Large, mid green		Warm
Large framed Vanguard style lettuce for warm season production. Very sure heading with excellent tipburn tolerance. Medium – large head size, short core. Should be trialled in the Raider timeslot.				
 <b>TROPICAL</b>	7 - 8 weeks	Medium size, mid green		Warm
A medium iceberg with round shaped head. It has excellent tolerance to bolting and tip burn. Good heat tolerance.				



# LETTUCE

VARIETY	MATURITY FROM TRANSPLANT	HEAD TYPE	DISEASE RESISTANCE	SEASON
<b>COS</b>				
 <b>GOLDMINE</b>	8 – 10 weeks	Medium to large, blonde		Cool
<b>NEW.</b> Cooler season blonde processing Cos. High yielding with high leaf count. Produces a medium to large heart. Highly adaptable.				
 <b>JEENA</b>	6 – 8 weeks	Little Gem	BI 16-35	All year round
<b>NEW.</b> Little Gem with dark glossy green colour. Early maturity with good weight. Uniform shape and size at harvest. Adaptable variety suitable for both hydroponic and open field production.				
 <b>KLONDIKE</b>	7 – 8 weeks	Medium to large, blonde	BI 16-28, 30-32	Warm
<b>NEW.</b> Blonde processing Cos for warmer weather. Produced a medium to large heart with high leaf count and excellent weight. Especially strong against bolting and tipburn.				
 <b>SYMPHONY</b>	7 - 9 weeks	Medium to large, mid green	BI 16-25	Warm
Medium to large framed Cos suitable for a range of growing conditions. Due to short core and tip burn tolerance, Symphony has performed well under warm growing conditions. Holding ability is a feature of this variety.				
 <b>TIMON</b>	7 – 8 weeks	Mid-sized		All year round
<b>NEW.</b> Excellent midi cos variety. Long bullet shape, short core and no visible tipburn. Timon has a very smooth rib, shiny dark green colour and an excellent shape.				
 <b>ZAZU</b>	7 - 8 weeks	Mid sized	BI 16-23	Cool
A quality COS variety which displays good head weight for its size. Light green midi type which produces an exceptionally high number of uniform sized, useable leaves. It is early closing but still has good tolerance to tipburn. The taste and eating qualities are a stand-out of this variety.				
<b>MIGNONETTE</b>				
<b>MIGNONETTE BROWN</b>	7 weeks	Small, loose, brown head		Most
Soft, lightly savoyed dark green and russet coloured leaves.				
<b>MIGNONETTE GREEN</b>	7 weeks	Small, loose, green head		Most
Small medium green heads with a soft, slightly savoyed leaf.				

# MELON

VARIETY	MATURITY FROM SOWING	FRUIT SHAPE	WEIGHT	SKIN	INTERNAL COLOUR
<b>HONEYDEW</b>					
<b>HYBRID</b>					
 <b>BUENA VISTA</b>	11 – 13 weeks	Round	2 – 2.5 kg	White	Orange
An orange flesh hybrid Honeydew with creamy white skin. It features good fruit setting of uniform, round fruit with tight cavities and outstanding flavour. Suitable for warm season production.					
 <b>DINO</b>	11 – 13 weeks	Round	1.8 – 2.5kgs	White with green fleck	White
<b>NEW.</b> Uniform slightly oblong fruit, with a white background with distinct dark green markings. Firm flesh with a pleasant taste, a good balance between flavour and sweetness. Brix 15-16. Recommended for Southern Summer production and shoulder slot in Northern WA & Qld.					
 <b>GALAXY</b>	12 - 13 weeks	Round	3 – 3.5 kg	Very white	Bright green
Large fruited, white skin, thick flesh fruit on a vigorous, protective vine. Good yield potential and excellent quality. Useful resistance to Powdery Mildew and Fusarium 0 and 2.					
 <b>SWEET PERIDOT</b>	11 – 13 weeks	Round	2 – 2.5kg	Very white	Green
Main season green flesh honeydew melon. Consistent round shape, smooth milky white skin, with a small seed cavity. Resistant to Fusarium 0 and 2, Intermediate resistance to Powdery mildew					
VARIETY	MATURITY FROM SOWING	FRUIT SHAPE	WEIGHT	SKIN	INTERNAL COLOUR
<b>ROCKMELON</b>					
<b>HYBRID</b>					
  <b>CORAL</b>	11 – 12 weeks	Round	1.8 – 2kgs	Moderate net	Deep orange
<b>NEW.</b> Good crown set, main season melon. Very small tight cavity. Well balanced plant with good vine cover. Good taste. Similar breeding and quality to Restart but 20% larger fruit. Disease Resistance: IR Fom2, Px					
 <b>GOULDIAN</b>	11 – 12 weeks	Round / oval	2 – 2.5 kg	Moderate net	Orange
Excellent Harper type rockmelon, best suited for Winter growing in Northern Queensland. Plant has a very strong vigour with good yield potential. Fruit flesh is very firm and crisp with tight cavity and high brix.					

# OKRA

VARIETY	MATURITY FROM SOWING	PLANT HEIGHT	POD TYPE
<b>OPEN POLLINATED</b>			
<b>CLEMSONS SPINELESS 80</b>	12 - 14 weeks	90 - 110cm	6 - 8cm x 2cm Green spineless
Pods are tapered towards the tips. Pick pods young for premium prices. Plants are frost tender.			

# ONION

VARIETY	TYPE	BULB	STORAGE POTENTIAL
<b>BROWN</b>			
<b>OPEN POLLINATED</b>			
<b>BARON</b>	Early Intermediate	Globe	Excellent
Vigorous grower with very good skin quality and keeping ability.			
<b>GLADALAN BROWN</b>	Mid Short Day	Globe, medium to large size	Limited
An adaptable variety, which performs well in most onion growing regions.			
<b>M &amp; R EARLY IMPROVED</b>	Very Early Intermediate	Globe, medium to large size	Excellent
Superior selection of the original New Zealand strain. Export quality.			
<b>MERCEDES</b>	Intermediate	Globe, medium to large size	Excellent
Selected for uniformity of bulb shape. Suitable for export.			
<b>MUNDULLA GOLD</b>	Late Intermediate	Globe	Excellent
Similar maturity to Murray Brown. Very dark brown skins. High yielding. Exceptional bulb uniformity.			











OKRA

ONION - BROWN

# ONION







VARIETY	TYPE	BULB	STORAGE POTENTIAL
<b>BROWN</b>			
<b>HYBRID</b>			
 <b>BEECH</b>	Early intermediate	Globe	Excellent
Beech is about 4 days later maturity than Goblin. It develops a very consistent skin quality at harvest and is slower to develop skin colour. In combination with excellent storage and large size, it is a perfect choice for growers who want to grow a good, well adapted variety but aim for larger sizes of bulbs.			
 <b>BRUNELLA</b>	Late Short Day	Globe	Good
Strong top vigour with improved root vigour for sowing in ground affected by Pink Root, yield advantage over similar types. Uniform globe shape with impressive skin numbers. Best suited to early June sowing in Southern Queensland.			
 <b>COLOSSUS</b>	Late Short Day	Globe, large size	Good
High yielding mild jumbo type, highly single centred, strong foliage. Is being successfully marketed as a mild type.			
 <b>COPPERHEAD</b>	Early Short Day	Uniform globe shape, medium size	Good
Consistently medium shaped onion with excellent colour. Improved skin retention and storage ability for its type.			
 <b>GOBLIN</b>	Early Intermediate	Large globe	Good
Goblin is extremely vigorous giving it a wider sowing window than other lines of this type. Germinates quickly under cool soil conditions and is capable of producing large sized bulbs with attractive golden brown colour. Foliage is strong against mildew. Medium storage potential.			
 <b>LUCINDA</b>	Mid Short Day	Globe, medium size	Very good
High quality, medium size. Very uniform globe shaped bulbs with excellent skin colour. Outstanding firmness and storage for an onion of the maturity.			
 <b>MANUELLA</b>	Short Day	Deep globe	Medium
<b>NEW.</b> Mid-Short-day onion variety recommended for direct sowing and transplantation. It has a robust root system, high yield and great firmness. Outstanding pink root resistance with adequate storage capacity for a short-day onion.			
 <b>OLIVINE</b>	Late Intermediate	Globe	Excellent
Our first Early Late Day hybrid. Similar maturity to Murray Brown. Very uniform bulb shape and even maturity. Very dark brown skins. Excellent skin retention. Should give growers higher pack out compared to similar maturing OP varieties. Long term storage potential.			
 <b>PELTON</b>	Mid-intermediate	Very uniform, Globe	Excellent
Brown onion hybrid with very high yield potential and excellent uniformity. Golden brown skins that colour early, medium to large bulbs (80-100mm) with fine, tight necks. Excellent globe shape with good bolting tolerance.			
 <b>PENDARVES</b>	Over-Wintering	High globe	Medium
Early over-Wintering type with very strong bolt tolerance. High yielding - bulbs late in the cycle. High globe to slight grano in shape with great skin retention. Fresh market type. Sow late April to mid-May in Southern regions.			

# ONION





VARIETY	TYPE	BULB	STORAGE POTENTIAL
<b>BROWN</b>			
<b>HYBRID</b>			
 <b>PLUTONUS</b>	Intermediate	High globe, large	Excellent
Plutonus is an Intermediate, brown hybrid. It produces very firm, high globe bulbs with extremely good storage potential. Foliage is large, vigorous and strong against mildew. Should be trialled in the late part of the PLK timeslot.			
 <b>PYTHON</b>	Very Early Intermediate	Globe, medium to large size	Very good
Very Early Intermediate brown hybrid possessing medium to large globe shaped bulbs. Generally highly single centred. Bulbs have very well retained attractive dark brown skins and very firm flesh. Good storage potential – especially considering its maturity class			
 <b>RIDGE LINE</b>	Very Late Intermediate	Very uniform globe	Excellent
Firm globe shape bulbs with thin necks, dark glossy brown in colour and excellent skin retention. Large bulbs with high pack outs and highly singled centres with good bolt tolerance. Good tolerance to pink root and basal rot.			
 <b>RIMU</b>	Early Intermediate	Very uniform globe, medium size	Excellent
An early intermediate brown onion, Rimu has very good bolt tolerance so can be sown in late Winter/early Spring. It produces extremely uniform globe shaped onions within a consistent size range resulting in high pack outs. It is considerably quicker maturing when compared to common PLK type OP varieties. Rimu has good storage ability and extremely attractive skins.			
 <b>SAMANTHA</b>	Very late Intermediate	Globe	Excellent
Late maturing, intermediate type for the storage market. High levels of bulb quality with beautiful golden brown skins and excellent retention. A unique combination of vigorous growth, extremely high yields, bulb quality and storage. Suitable for the late sowing markets of S.A and W.A.			
 <b>SHINTO</b>	Over-Wintering	Globe, large size	Limited
An extra early maturing overwintering type capable of producing very high yields. Suitable for growing in the cooler southern regions of Australia it can produce 70 – 90mm bulbs up to 3 weeks earlier than M&R Early types. It is a milder onion with medium brown skins and limited storage potential so should be used for early domestic sales only. Has shown excellent tolerance to Downy Mildew and is strong against bolting.			
 <b>TI-12L</b>	Mid intermediate	Uniform globe shape	Excellent
Brown onion from Takii with exceptional bulb quality. Bulbs are firm, globe shaped with very dark glossy brown colour. Excellent skin retention, highly single centred and very uniform. TI-12L has a very high percentage of first grade pack outs.			
 <b>TRAILBLAZER</b>	Mid Intermediate	Very uniform globe shape bulbs	Excellent
Firm globe shape bulbs, dark glossy brown in colour and excellent skin retention. Medium bulbs with high pack outs and highly singled centres with good bolt tolerance. Good tolerance to pink root and basal rot.			
 <b>TREKKER</b>	Mid Intermediate	Excellent uniform globe shape	Excellent
Firm globe shape bulbs, dark glossy brown in colour and excellent skin retention. Medium bulbs with high pack outs and highly singled centres and good bolt tolerance. Good tolerance to pink root and basal rot.			
 <b>ZIRCON</b>	Intermediate	Flattened globe	Medium
High yielding, very dark brown skins. Good heat tolerance. This variety fits in well to follow on from Goblin and shows quick skin colour development. Adaptable variety.			





# ONION

VARIETY	TYPE	BULB	STORAGE POTENTIAL
<b>RED</b>			
<b>HYBRID</b>			
 <b>CABERNET</b>	Intermediate	Globe	Excellent
Very good plant vigour with good resistance to a range of foliar diseases. Very intense red colour with single centres. Tight neck - ideal for curing. Very good storage characteristics.			
 <b>MALBEC</b>	Short Day	Flattened globe	Limited
Dark red, flattened globe shape with good storage for its type. Excellent top vigour with improved Downy Mildew tolerance compared to similar maturity. Should avoid soils with potential Pink Root issues.			
 <b>MONASTRELL</b>	Intermediate	Globe to slightly flattened globe	Excellent
Slightly larger in size, it matures slightly later than Cabernet and is slightly larger in size. Highly adaptable with a broad harvest window, this variety produces medium to large onions averaging 80 - 100mm. Featuring single-centres and excellent early internal colour development, Monastrell has a dark red skin and a round to slightly flat shape. Vigorous tops have an upright habit and tight necks.			
 <b>PINOTAGE</b>	Very Early Intermediate	Globe	Good
High quality red with very flexible planting slot. Approximately 10 days later than Gamay and 7-10 days earlier than Red Emperor.			
 <b>RED EMPEROR</b>	Intermediate	Flattened globe	Excellent
Vigorous plant habit with good partial resistance to foliar diseases compared with many red varieties. Very good intense red external colour and internal ring colour development with single centres. Flattened Globe to Grano shape with good handling and storage characteristics. Its tight neck makes it ideal for curing.			
 <b>RUBILLION</b>	Late Intermediate	Very uniform globe shape bulbs	Very good
Rubillion is a hybrid red, long day type with early maturity. Large globe shaped bulbs are dark red both internally and externally with a high percentage of single centres.			

# ONION








VARIETY	TYPE	BULB	STORAGE POTENTIAL
<b>WHITE</b>			
<b>OPEN POLLINATED</b>			
<b>GLADALAN WHITE</b>	Mid Short Day	Globe, medium to large size	Fair
Adaptable variety well suited to many growing regions.			
<b>WHITE SPANISH</b>	Intermediate	Globe, medium size	Excellent
Very firm main season onion with outstanding skin retention. Industry standard for storage white.			
<b>HYBRID</b>			
 <b>MISTY</b>	Early Short Day	Globe, medium size	Good
Early Short Day white skinned onion. The variety has large, uniform globe-grano shaped bulbs (90 - 100 + mm depending on location, seasonal factors and planting date) which have good colour and skin retention. It has good firmness and storage ability for this type of onion.			
  <b>PIRINEOS</b>	Late Short Day	Globe	Medium
<b>NEW.</b> Pirineos is a non-greening, uniform sizing white skin onion. Strong root vigour under pink root pressure. It has a vigorous plant with dark green foliage and medium necks. Bulbs are round with excellent uniformity and very firm. High tolerance to pink root.			
 <b>WHITEHAVEN</b>	Late Short Day	Uniform globe, medium to large size	Good
This variety exhibits a very firm white onion for the table market. Commercial plantings to date have shown a very strong tolerance to greening and a strong tolerance to Pink Root.			

# ONION





VARIETY	MATURITY FROM SOWING	FOLIAGE	STEM TYPE
<b>STRAIGHTLEAF</b>			
<b>OPEN POLLINATED</b>			
<b>STRAIGHTLEAF</b>	10 weeks	Blue green, upright	Single stem
Suitable for year round cultivation.			
<b>ZEFFA</b>	10 weeks	Blue green, upright	Single stem
Suitable for year round production in Southern areas. Useful field tolerance to Mildew.			
<b>HYBRID</b>			
 <b>ZEUS</b>	10 weeks	Blue green, waxy	Long, thick single stem
Extremely uniform leaf characteristics. Dark blue green leaf colour with heavy leaf wax. Vigorous strong leaf and root system. Suitable for year round production.			
 <b>ZOOLANDER</b>	10 - 12 weeks	Dark blue-green, upright	Long, thick single stem
Dark blue-green hybrid bunching onion for use all year round. Highly uniform shank length and size. Easy to clean after harvest. Increased harvest efficiency means lower harvest costs.			

ONION - STRAIGHTLEAF

# ORIENTAL VEGETABLES






VARIETY	MATURITY	TYPE
<b>CHINESE CABBAGE</b>		
<b>HYBRID</b>		
 <b>AUTUMN TREASURE</b>	8 – 10 weeks from transplant	Conical
<b>NEW.</b> Clubroot resistant hybrid Chinese cabbage. Shape is an elongated barrel. Very solid with excellent bolting tolerance.		
 <b>CHEROKEE</b>	70 – 85 days from sowing	Conical
Autumn / Winter and early Spring. Head size 2.5 - 3 kg. Slow bolting. Intermediate resistance to Clubroot.		
 <b>DELTA</b>	6 – 8 weeks from transplant	Conical
<b>NEW.</b> Hybrid mini Chinese cabbage with yellow internals. Quick maturing. Average weight around 600 grams when planted at high density.		
 <b>SPRING DOLL</b>	8 – 10 weeks from transplant	Conical
Extra early hybrid with good head formation under cool conditions. Very slow bolting. Versatile – can be harvested as mini (600 grams) through to a midi (1.5kg). Dark green with yellow internals. Intermediate resistance to Club Root.		
<b>CHINESE GREENS</b>		
<b>OPEN POLLINATED</b>		
 <b>PAK CHOI - WHITE STEM</b>	45 - 50 days	Upright, non heading
Open, non heading variety with pure white stems and glossy green leaves.		
<b>HYBRID</b>		
<b>JOI CHOI</b>	40 - 50 days	Non heading, very upright
Non heading loose leaf variety with ivory white stems.		
 <b>DARK KNIGHT</b>	40 – 50 days	Upright, non-heading
<b>NEW.</b> Leaves are oval and dark green in colour. Broad, flat, light green petioles. Glossy leaf appearance. Excellent bolt tolerance. Short core.		
 <b>PAK CHOI - GREEN STEM</b>	8 - 9 weeks	Upright, non heading
Non Heading type with glossy green, bulbous stems and short rounded leaves.		

# PARSLEY





VARIETY	MATURITY FROM TRANSPLANT	LEAF TYPE
 <b>KATINKA</b>	10 - 12 weeks	Dark green, double curled
Double curled parsley, medium to dark green. Very high yields, uniform in growth and curl. Upright and easy to clean. For all markets especially for Winter to Spring with early curling.		
 <b>ORFEO</b>	10 - 12 weeks	Dark green, double curl
<b>NEW.</b> Double curled parsley. Very uniform dark green, strong curled leaves. Excellent shelf life. This variety is suitable for pots and outdoor production.		
 <b>WEGA</b>	10 - 12 weeks	Moss curled, dark green
<b>NEW.</b> Dark green upright leaves. Very good shelf life. For outdoor production and for pots. Suitable for both fresh market and processing.		
 <b>PEIONE</b>	10 weeks	Plain leaf, dark green, glossy
Gigante D' Italia type with high uniformity, dark green glossy colour. It has larger leaves resulting in higher yields. Suitable for fresh market and industry. Intermediate Resistance to downy mildew.		









# PUMPKIN

VARIETY	MATURITY FROM SOWING	FRUIT SHAPE	SIZE	SKIN	INTERNAL COLOUR
<b>BUTTERNUT</b>					
<b>OPEN POLLINATED</b>					
<b>BUTTERNUT LARGE</b>	16 - 19 weeks	Blocky	20 x 12cm	Mustard yellow	Bright orange
Produces blocky ended fruit on a manageable vine. Delicious flavour.					
<b>BUTTERNUT WALTHAM</b>	16 - 18 weeks	Pear	18 x 10cm	Mustard yellow	Deep orange
Fruit are tapered to the stem end. Reasonable keeping quality.					
<b>HYBRID</b>					
 <b>ANNABELLE</b>	16 – 18 weeks	Blocky	24 x 14cm	Mustard yellow	Deep orange
<b>NEW.</b> New butternut pumpkin from Enza Zaden. Strong plants, adaptable, with good fruit cover. Excellent fruit shape and size uniformity. Good internal quality, bright orange, firm, with a small seed cavity. Fruit set is excellent. Holds its size under variable conditions. Disease resistance: IR: ZYMV / WMV / PRSV					
 <b>HAVANA</b>	15 – 18 weeks	Pear	19 x 19cm	Mustard yellow	Deep orange
Waltham type. Excellent fruit shape and size uniformity. Good internal colour with a small cavity. Outstanding yield potential.					
 <b>JACQUELINE</b>	15 – 18 weeks	Long, blocky	20 x 12cm	Mustard yellow	Deep orange
Very productive blocky fruit. Size and shape is uniform with tidy blossom end scar. Internal colour and texture is very good. Small cavity.					
 <b>MATILDA</b>	16 - 18 weeks	Blocky	40 x 15cm	Mustard yellow	Deep orange
High yielding Butternut Large type. Will make larger size than most Butternuts under cool conditions. Good storage ability. High recovery makes it ideal for processing.					
 <b>TIANA</b>	16 - 18 weeks	Long, blocky	18 x 8cm	Mustard yellow	Bright orange
High yielding. Small long blocky butternut around 1kg. High quality, consistent production. Intermediate resistance to ZYMV.					











# PUMPKIN

VARIETY	MATURITY FROM SOWING	FRUIT SHAPE	SIZE	SKIN	INTERNAL COLOUR
<b>FIELD</b>					
<b>OPEN POLLINATED</b>					
<b>JARRAHDAL LARGE</b>	16 - 18 weeks	Thick flat	35 x 22cm	Grey	Orange
Larger version of WA Grey. Produces good-sized fruit under cool conditions.					
<b>QLD BLUE SPECIAL STRAIN</b>	18 - 22 weeks	Thick flat	28 x 20cm	Blue grey	Deep orange
Fruit are ribbed, with a small blossom end button. Flesh is quite dry.					
<b>HYBRID</b>					
 <b>NELSON</b>	14 - 16 weeks	Thick flat	26 x 16cm	Grey	Deep orange
Vigorous early bush type with fruit setting in crown of plant. Average fruit weight 4.5kg. Deep orange flesh with small cavity. Good flesh depth on shoulders.					
 <b>SAMPSON</b>	14 - 16 weeks	Thick flat	28 x 16cm	Grey	Deep orange
Slightly ribbed, concaved top with a heavy shoulder. Tapering to the base with a small blossom end. Exceptional dark orange flesh with a small cavity and thick 'meaty' shoulders. Good disease package.					
<b>SWEET GREY</b>	14 - 16 weeks	Deep flat	25 x 16cm	Slate grey	Deep orange
Early maturing variety with exceptional yield and flavour. Suitable for both fresh market and processing.					
<b>KENT</b>					
<b>OPEN POLLINATED</b>					
<b>JAP IMPROVED</b>	14 - 17 weeks	Thick flat	20 x 14cm	Mottled green	Orange
Produces delicious, sweet, fleshy pumpkins. Not recommended for storage.					
<b>HYBRID</b>					
 <b>JACKAROO</b>	14 - 17 weeks	Thick flat	20 x 15cm	Mottled green	Orange
Kent type. Produces sweet, fleshy, delicious pumpkins. Slightly ribbed. Small cavity with good internal colour. High yield potential.					
 <b>RINGER</b>	13 - 15 weeks	Thick	18 x 14cm	Mottled green	Dark orange
Quicker maturing than other Kent types. Generative type resulting in a larger crown set than other varieties which will result in large numbers of fruit that can be 1kg lighter in weight than Jackaroo. Superior internal quality and storage.					



# RADISH

VARIETY	MATURITY FROM SOWING	BULB	FOLIAGE
<b>OPEN POLLINATED</b>			
<b>FIREBALL</b>	25 - 30 days	Round, bright scarlet	Tall
Best performance during Winter months.			
 <b>LONG WHITE CHINESE</b>	55 - 60 days	Long, Asian type	Tall, semi upright
Suitable for warm season cultivation. Roots average 40 x 6cm.			
 <b>RED MEAT</b>	55 - 60 days	Round, white	Medium
Beautiful red flesh, bulb is round 7-9cm in diameter. Suitable for salads, pickling and cooking. Root weight is 150-200gr. Recommended season is Summer to Autumn.			
<b>HYBRID</b>			
 <b>ARAMAC</b>	55 - 60 days	Long, white	Tall, semi upright
<b>NEW.</b> Daikon radish with green shoulder. Medium sized dark green tops. Roots around 36cm long with diameter of 8cm. Good cold tolerance and consistent vigour makes it suitable for all year-round production.			
 <b>CELESTA</b>	25 - 30 days	Round, deep red	Upright compact tops
Very uniform bulbs with intense red skins and crisp white flesh. Less splitting and marking than other varieties.			
 <b>ESTELLA</b>	25 - 30 days	Round, deep red	Compact tops
<b>NEW.</b> A round bulb shape and robust with compact foliage. Suitable for machine harvest and for open field crops. It has medium Fusarium resistance. Ideally for Spring to Autumn harvest.			
<b>EVE</b>	20 - 25 days	Round, bright red	Compact, upright tops
Bright, light red radish for open field production. Very uniform shape and size bulbs. Compact upright tops. Early maturity and easy harvest			
<b>RUDOLPH</b>	25 - 30 days	Round, deep red	Medium tops
Extremely uniform shaped roots, which have crisp white flesh.			
 <b>SKYLAR</b>	25 - 30 days	Round, deep red	Upright, medium tops
<b>NEW.</b> Excellent vibrant colour. Vigorous tops even under cool conditions. High yields with excellent uniformity. Internal qualities are very good. Tolerant to pith.			

# SALAD MIX

BEET			
RED LEAF			
Baby leaf beetroot. Very uniform size and colour. Develops the red colour in the leaf and adds extra colour to the salad mix. A unique product.			
LETTUCE			
VARIETY	PLANT TYPE	LEAF TYPE	DISEASE RESISTANCE
 <b>ARETHA</b>	Cos	Red salad cos	BI 16-28
A new generation of red salad cos. The leaf colour is dark red and has a very thick, slightly blistered texture. Selected for improved shelf life and better performance against mildew.			
 <b>BOWIE</b>	Red Tango	Highly serrated	BI 16-28
A more intense red colour than Opal it has similar growth times and leaf characteristics. The leaves have a strong texture which ensures that it washes very well.			
 <b>CILLA</b>	Green Oak	Frilled green oak	BI 16, 18-20, 23-25
A green oak with a serrated leaf margin. The texture is very thick offering good shelf life and the colour is dark green. Good potential field yields and also offers multiple harvests.			
 <b>HENDRIX</b>	Green Tango	Dark green, heavily serrated	BI 16,19,21,23, 25
A faster maturing Green Tango making it more suitable for Winter production or situations that require more vigour. It has excellent texture and is suitable for multiple harvests.			
 <b>HUCKNALL</b>	Lollo Rossa	Red coral	BI 16-26
A high yielding dark red coral. The leaf has a thick texture and a slight blister giving it good wash recovery. Performed well in the field against Downy Mildew and Bacterial Leaf Spot.			
 <b>MARLEY</b>	Green Tango	Highly incised	BI 16-23
The latest introduction – it is very high yielding. The colour is dark green and the leaf texture is strong. Marley washes well and complements Bowie.			
 <b>OASIS</b>	Green Oak	Fine shape	BI 16-28
High yielding, Oasis has a very fine leaf shape with very strong texture. Dark green colour with light leaf cupping, in combination with very fine leaf attachment enables a very long shelf life.			
 <b>SHEERAN</b>	Red Oak	Dark red, lobed margins	BI 16-31
Sheeran is a new dark red oak leaf with a high level of Bremia resistance. It is high yielding with a slightly cupped leaf which helps ensure that it doesn't stick to the bag after washing.			
 <b>SPRINGSTEEN</b>	Cos	Green salad cos	BI 16-35
<b>NEW.</b> Very vigorous green salad cos. Excellent leaf gloss with very sweet taste. Leaves are wide, slightly blistered with a thick texture. This variety is best suited to cooler climates.			
 <b>ZEPPELIN</b>	Green Oak	Green, cupped	BI 16-28
Slammer type with more cupping in the leaf. Suited to a range of markets due to the holding ability.			



# SALAD MIX

MUSTARD			
ELKINGTON	Green Mustard	Incised leaf	
A high incised hybrid leaf mustard. The leaves are a soft attractive, bright green colour and have excellent uniformity. The unique shape adds appeal to the mix.			
ROCKET			
DARKITA	Speedy Rocket	Fine serrations, dark green	
Darker version of Gemini with finer leaf serrations. Fast maturity. Good post-harvest storage attributes.			
 EXTREMA	Wild Rocket	Finely serrated	
This variety has a slightly bitter, peppery flavour with dark green, aromatic leaves. It has good bolting tolerance and re-grows well after harvest.			
GEMINI	Speedy Rocket	Dark green, low internal yellowing, serrated	
Speedy rocket with wild rocket appearance. Fast maturing and high yielding. Good post-harvest attributes. Slightly milder taste compared to wild rocket.			
 HYSTAR	Wild Rocket	Finely serrated	
<b>NEW.</b> New Wild Rocket from 3 Star. Fine leaf which is slightly cupped. Attractive glossy dark green colour. Excellent pungent flavour. Hystar has exceptional field holding.			
SWISS CHARD			
RHUBARB RED		Bright green	
A very reliable variety which is popular in salad growers' programmes. It is selected for improved bright red stems which extend well into the leaf veins.			

# SILVERBEET

VARIETY	MATURITY FROM TRANSPLANT	FOLIAGE	PLANT HEIGHT
<b>COMPACTA SLO BOLT</b>	10 - 14 weeks	Dark green, savoyed	Compact 45 - 50cm
Suitable for bunching or whole plant marketing, slow bolting.			
<b>FORDHOOK GIANT</b>	9 - 10 weeks	Dark green, heavily savoyed	Up to 75cm
A reliable, high yielder particularly during warmer seasons. Mid-rib is broad and white.			
<b>SUCCESS</b>	9 - 10 weeks	Dark green, savoyed	40 - 45cm
Dark green savoyed leaves on short plant with white stems. Good for whole plant harvesting.			

# SQUASH

VARIETY	MATURITY FROM SOWING	PLANT HABIT	SKIN	FRUIT SHAPE
<b>HYBRID</b>				
<b>AFRICAN GEM</b>	10 - 12 weeks	Trailing	Dark green, smooth	Round, spherical
Compact vigorous plant with short internodes. Maturity 50 – 60 days for baby gem and 70 – 80 days for mature fruit. Attractive dark green fruit that stores and transports well.				
 <b>DELICA</b>	12 - 17 weeks	Trailing	Dark green with lighter ribbing	Round, flattened
Kabocha / Japanese type squash. Fruit average 2 - 3kg in weight with a distinct sweet, dry nutty flavour.				
<b>GOLDEN BUTTONS</b>	6 - 8 weeks	Bush	Golden yellow	Round, flattened
Scallop edged button squash. Superb eating qualities. Greening can occur under certain conditions.				
 <b>POTKIN SMALL</b>	14 - 15 weeks	Trailing	Almost black with lighter ribbing	Deep round up to 3.5kg
Produces delicious dry fruit which has outstanding storage potential.				
<b>SUNBURST</b>	5 - 7 weeks	Bush	Golden yellow	Flattened with scalloped edge
For best flavour, harvest at diameter of 6 - 8cm. Can show greening under certain conditions.				



# SWEDE

VARIETY	MATURITY FROM SOWING	ROOT SHAPE
OPEN POLLINATED		
LAURENTIAN	16 - 17 weeks	Globe, 13 - 14cm
Produces a more refined product suitable for processing. High yielding.		

# SWEETCORN




VARIETY	MATURITY FROM SOWING	COB	DISEASE RESISTANCE
HYBRID			
BROADWAY	82 - 85 days	Bright yellow	MR : ET IR: PS; MDMV
Early maturing, robust, sturdy plants that produce a uniform plant stand. Produces attractive uniform cylindrical cob with good tip fill. Cobs are 18 – 19cm with excellent husk protection and a dark flag.			

# TOMATO

VARIETY	MATURITY FROM TRANSPLANT	FRUIT TYPE	PLANT HABIT	DISEASE RESISTANCE
<b>CHERRY</b>				
<b>HYBRID</b>				
 <b>FEDELE</b>	9 – 10 weeks	Round 15 – 20g	Indeterminate	TMV, TYLCV, Fol 0,1, N
Indeterminate long shelf life cherry tomato hybrid. Open and strong plant type. Excellent yields as a result of consistent fruit setting and uniform size. Short internodes. Very long shelf life due to tolerance to cracking.				
 <b>MYGLIORITO</b>	10 weeks	Round 20 – 25g	Indeterminate	ToMV:0,2, Fol 0,1, Va:0, Vd:0, TYLCV, Ma, Mi/Mj
<b>NEW.</b> Vigorous plant, with short and very regular internodes. Maintains the large fruit size through the growing cycle. Suited for greenhouse and open field cultivation. Regular and long cluster with strong attachments. Round fruit, bright red, firm, L.S.L.				
<b>ROMA - INDETERMINATE</b>				
<b>OPEN POLLINATED</b>				
<b>NIKARDO</b>	9 – 10 weeks	Red 140 - 160g	Indeterminate, trellis	TYLC, TMV, V, N, Fol 0,1, TSWV
Strong vigour, sets easily. Excellent setting on Herring Bone type truss. Large fruit from bottom to middle trusses, maintains good size from middle to the top. Excellent fruit shelf life. Very tolerant to nematodes.				
<b>FIELD TYPES - ROUND DETERMINATE</b>				
<b>HYBRID</b>				
<b>TUSCAN SUN</b>	10 - 12 weeks	Globe 170 - 180g	Tall, requires trellising	RS, Fol 0,1, PM, TSWV, V
Large fruit with good colour and excellent flavour. Jointless.				










# TOMATO

VARIETY	MATURITY FROM TRANSPLANT	FRUIT TYPE	PLANT HABIT	DISEASE RESISTANCE
<b>FIELD TYPES - ROUND INDETERMINATE</b>				
<b>HYBRID</b>				
<b>ARTEMIS</b>	12 - 13 weeks	Globe, red 160-180g	Trellis	V, Fol 0,1, TMV, TSWV, BW, N, PM
Vigorous growth for Winter production with very high yield potential. Fruit colour is red to deep red with no green shoulders. A long shelf life tomato.				
 <b>ASIL</b>	9 – 10 weeks	Globe, red. 150g	Trellis	TMV, Fol 0,1, N
Highly refined glasshouse appearance – deep red colour when ripe. Medium size with very uniform fruit up the vine. Vigorous but compact growth habit developing extremely firm fruit with extended shelf life. Highly adaptable vigorous plant with a short internode.				
<b>ATHENA</b>	9 – 10 weeks	160 – 180gr	Trellis	HR: V; TMV; Fol 0,1, BW IR: N, TSWV, PM
Long shelf life tomato suited to open-field production system. Short internodes and high percentage of first grade fruit, excellent setting.				
 <b>SYLVIANA</b>	10 - 12 weeks	Deep globe, red 180g	Trellis	TMV; Ff; TSWV; TYLCV; Fol 0,1,2; V; N
Vigorous strong plant. Uniform medium to large sized fruit with extended shelf life. Fruit sizes evenly up the vine. <i>Fertiliser applications and amounts need to be considered.</i>				
 <b>WIN WIN</b>	10 – 12 weeks	Deep globe, red 180g	Indeterminate	Fol 0,1,2, ToMV TSWV, TYLC
<b>NEW.</b> Strong robust Indeterminate tomato with F3 resistance. Excellent firmness for long shelf life. Medium plant size with short internodes. Early maturing variety. <i>Fertiliser applications and amounts need to be considered.</i>				


# TURNIP

VARIETY	MATURITY FROM SOWING	ROOT SHAPE
<b>OPEN POLLINATED</b>		
<b>PURPLE TOP WHITE GLOBE</b>	10 - 11 weeks	Globe, 7 - 8cm
The upper part of the root is glossy purple with the lower section vivid white.		





# WATERMELON

VARIETY	MATURITY FROM SOWING	FRUIT SHAPE	SIZE	FLESH COLOUR
<b>SEEDED</b>				
<b>OPEN POLLINATED</b>				
<b>ALL SWEET</b>	16 - 17 weeks	Long	12 - 14kg 45 x 22cm	Bright red
Mid green with dark green stripes. A sister line to Crimson Sweet. Sweet, juicy and ships well. <i>Suitable as a pollinator.</i>				
<b>WARPAINT</b>	14 - 15 weeks	Round	11 - 13kg 30 x 35cm	Intense red
Mid green with a darker green jagged stripe. Still a popular variety due to its excellent transportability and premium quality fruit.				
 <b>YARDEN</b>	10 - 11 weeks	Oval	8 - 12kg	Dark red
Yarden grows a vigorous plant with high setting, producing elongated fruit with a wide dark stripe. Flesh is deep red colour and very sweet. Seeds are very small.				
<b>SEEDLESS</b>				
 <b>OCEAN FRESH</b>	11 - 12 weeks	Round	7 - 8kg	Dark red
<b>NEW.</b> Strong vine providing good cover. Round shape with a more pronounced stripe than Talca. Dark red internals, crisp flesh with brix 12 -13. Ocean Fresh has performed well in all regions; very constant quality and always setting a high number of fruit.				
 <b>MAXIMA</b>	11 - 12 weeks	Round	9 - 10kg	Dark red
Seedless watermelon producing large, very round fruit. Internals are exceptional with its outstanding sweet flavour. The flesh is very firm and with a high level of Lycopene giving the deep red colour. Vine is very vigorous and adaptable.				
 <b>TALCA</b>	11 - 12 weeks	Slightly oval	8 - 10kg	Dark red
Seedless watermelon with very dark stripes. Minimal fibre, good shelf life. Robust vine with very high yield potential. Outstanding sweet, crisp flesh.				
<b>MINI SEEDLESS</b>				
 <b>ANA</b>	10 - 11 weeks	Round	2.8 - 3kg	Dark red
<b>NEW.</b> Dark stripe personal watermelon. Producing round fruit with deep red firm flesh. Mid-early maturity with fruit size 2.8kgs -3.3kgs.				
 <b>BELINDA</b>		Round	2 - 2.5kg	Dark red
<b>NEW.</b> Firm sweet flesh with excellent shelf life. Perfectly fits 6 - 8 fruit in the box.				
 <b>BUMBLE BEE</b>		Round	3 - 4kg	Yellow
<b>NEW.</b> Dark green skin. Early maturity. Firm flesh				
 <b>SKY LINE</b>	10 - 11 weeks	Round, Tiger stripe	3 - 3.5kg	Dark red
<b>NEW.</b> Exceptional vine strength and fruit size uniformity. Red, firm flesh, perfectly suitable for personal watermelon market.				

# WATERMELON

VARIETY	MATURITY FROM SOWING	FRUIT SHAPE	SIZE	FLESH COLOUR
POLLINATOR				
VARIETY	DAYS TO 50% FLOWERING			
 LION				
There is a continuous production of late male flowers over an extended period. The NON EDIBLE fruit is dark striped. Shows useful field tolerance to Powdery Mildew. White to yellow flesh.				

# ZUCCHINI

VARIETY	MATURITY FROM SOWING	PLANT HABIT	SKIN	FRUIT SHAPE
<b>HYBRID</b>				
<b>BROOKTON</b>	5 – 7 weeks	Very open bush	Glossy, dark green	Cylindrical
Early maturing variety with very good fruit set. High quality, dark green uniform fruit. The variety performs best in Autumn, Winter and early Spring production. Disease resistance CMV and ZYMV.				
 <b>CALNEGRE</b>	5 – 7 weeks	Open bush	Glossy, dark green	Cylindrical
Open plant with medium vigour – well suited to hand harvest. Fruit is very uniform, straight and well proportioned. Fleck is uniform and not contrasting.				
 <b>GOLDIE</b>	7 - 9 weeks	Strong, open plant	Bright golden yellow	Slightly bulbous cylindrical
The strong plant produces high yields of bright yellow, attractive fruit. Stems are contrasting dark green.				
 <b>LIBERTY</b>	5 – 7 weeks	Open bush	Glossy dark green	Cylindrical
High quality hybrid with uniform glossy fruit - 20cm x 5cm. Medium sized open spineless plant. Disease resistance PRSV; WMV; ZYMV				
 <b>WINDSOR</b>	5 – 7 weeks	Very open bush	Glossy, dark green	Cylindrical
<b>NEW.</b> Strong open plant with good vigour. Controlled bush perfectly suited for Summer production. Fruit has minimal speck and a tidy blossom end scar. Recommended for September to March harvest in Southern states.				
<b>ZEINA</b>	5 - 7 weeks	Semi-open bush	Green - white	Bulbous
Lebanese type. Very vigorous plant - high yielding. Fruit is 10 - 15cm in length. Light green in colour. Uniformly tapered at the stem end - wider at blossom end.				

# PLANT POPULATION PER HECTARE

PLANT SPACING	1.5 M BEDS					1.7 M BEDS		2.4 M BEDS	3 M BEDS
(CM)	6 ROWS	4 ROWS	3 ROWS	2 ROWS	1 ROW	2 ROWS	1 ROW	1 ROW	1 ROW
1CM	4020000	2680000	2010000	1340000	670000	1176400	588200	416700	333300
2CM	2010000	1340000	1005000	670000	335000	588200	294100	208350	166650
3CM	1340000	893333	670000	446667	223333	392133	196067	138900	111100
4CM	1005000	670000	502500	335000	167500	294100	147050	104175	83325
5CM	804000	536000	402000	268000	134000	235280	117640	83340	66660
6CM	67000	446667	335000	223333	111667	196067	98033	69450	55550
7CM	574286	382857	287143	191429	95714	168057	84029	59529	47614
8CM	502500	335000	251250	167500	83750	147050	73525	52088	41663
9CM	446667	297778	223333	148889	74444	130711	65356	46300	37033
10CM	402000	268000	201000	134000	67000	117640	58820	41670	33330
12CM	335000	223333	167500	111667	55833	98033	49017	34725	27775
15CM	268000	178667	134000	89333	44667	78427	39213	27780	22220
18CM	223333	148889	111667	74444	37222	65356	32678	23150	18517
20CM	201000	134000	100500	67000	33500	58820	29410	20835	16665
25CM	160800	107200	80400	53600	26800	47056	23528	16668	13332
30CM	134000	89333	67000	44667	22333	39213	19607	13890	11110
37CM	108649	72432	54324	36216	18108	31795	15897	11262	9008
44CM	91364	60909	45682	30455	15277	26736	13368	9470	7575
50CM	80400	53600	40200	26800	13400	23528	11764	8334	6666
60CM	67000	44667	33500	22333	11167	19607	9803	6945	5555
80CM	50250	33500	25125	16750	8375	14705	7353	5209	4166
100CM	40200	26800	20100	13400	6700	11764	5882	4167	3333
120CM	33500	22333	16750	11167	5583	9803	4902	3473	2778
180CM	22333	14889	11167	7444	3722	6536	3268	2315	1852
200CM	20100	13400	10050	6700	3350	5882	2941	2084	1667
250CM	16080	10720	8040	5360	2680	4706	2353	1667	1333
300CM	13400	8933	6700	4467	2233	3921	1961	1389	1111
350CM	11486	7657	5743	3829	1914	3361	1681	1191	952

USE THIS CHART TO DETERMINE ACTUAL NUMBER OF PLANTS PER HECTARE PLANTED.

No allowance has been made for headlands, spray rows, irrigation channels, etc, in these calculations.

# SEED REQUIREMENT PER HECTARE IN GRAMS AND KILOGRAMS

SEEDS PER GRAM

	0.5	1	2	4	6	8	10	15	20	25	50	100	150	200	300	400	500	750	1000	1250	1500	2000	2500	3000	
1	2.0	1.0	500	250	175	125	100	67	50	40	20	10	7	5											
2	4.0	2.0	1.0	500	333	250	200	133	100	80	40	20	13	10	6.7	5.0									
2.5	5.0	2.5	1.3	625	417	313	250	167	125	100	50	25	17	13	8.3	6.3	5								
3	6.0	3.0	1.5	750	500	375	300	200	150	120	60	30	20	15	10	7.5	6								
3.5	7.0	3.5	1.8	875	583	438	350	233	175	140	70	35	23	18	12	8.8	7								
4	8.0	4.0	2.0	1.0	667	500	400	267	200	160	80	40	27	20	13	10	8	5.3			GRAMS				
4.5	9.0	4.5	2.3	1.1	750	563	450	300	225	180	90	45	30	23	15	11	9	6.0							
5	10	5.0	2.5	1.3	833	625	500	333	250	200	100	50	33	25	17	13	10	6.7	5						
5.5	11	5.5	2.8	1.4	917	688	550	367	275	220	110	55	37	28	18	14	11	7.3	5.5						
6	12	6.0	3.0	1.5	1.0	750	600	400	300	240	120	60	40	30	20	15	12	8.0	6						
7	14	7.0	3.5	1.8	1.2	875	700	467	350	280	140	70	47	35	23	18	14	9.3	7	5.6					
8	16	8.0	4.0	2.0	1.3	1.0	800	533	400	320	160	80	53	40	27	20	16	11	8	6.4	5.3				
9	18	9.0	4.5	2.3	1.5	1.1	900	600	450	360	180	90	60	45	30	23	18	12	9	7.2	6.0				
10	20	10	5.0	2.5	1.7	1.3	1.0	667	500	400	200	100	67	50	33	25	20	13	10	8	6.7	5.0			
13	26	13	6.5	3.1	2.1	1.6	1.3	833	650	500	250	125	83	63	42	31	25	17	12.5	10	8.3	6.3	5.0		
15	30	15	7.5	3.8	2.5	1.9	1.5	1.0	750	600	300	150	100	75	50	38	30	20	15	12	10	7.5	6.0	5.0	
18	36	18	9.0	4.4	2.9	2.2	1.8	1.2	875	700	350	175	117	88	58	44	35	23	17.5	14	12	8.8	7.0	5.83	
20	40	20	10	5.0	3.3	2.5	2.0	1.3	1.0	800	400	200	133	100	67	50	40	27	20	16	13	10	8.0	6.67	
25	50	25	13	6.5	4.2	3.1	2.5	1.7	1.3	1.0	500	250	167	125	83	63	50	33	25	20	17	13	10	8.33	
30	60	30	15	7.5	5.0	3.8	3.0	2.0	1.5	1.2	600	300	200	150	100	75	60	40	30	24	20	15	12	10	
35	70	35	18	8.8	5.8	4.4	3.5	2.3	1.8	1.4	700	350	233	175	117	88	70	47	35	28	23	18	14	12	
40	80	40	20	10	6.7	5.0	4.0	2.7	2.0	1.6	800	400	267	200	133	100	80	53	40	32	27	20	16	13	
50	100	50	25	13	8.3	6.3	5.0	3.3	2.5	2.0	1.0	500	333	250	167	125	100	67	50	40	33	25	20	17	
60	120	60	30	15	10	7.5	6.0	4.0	3.0	2.4	1.2	600	400	300	200	150	120	80	60	48	40	30	24	20	
70	140	70	35	18	12	8.8	7.0	4.7	3.5	2.8	1.4	700	467	350	233	175	140	93	70	56	47	35	28	23	
80	160	80	40	20	13	10	8.0	5.3	4.0	3.2	1.6	800	533	400	267	200	160	107	80	64	53	40	32	27	
90	180	90	45	23	15	11	9.0	6.0	4.5	3.6	1.8	900	600	450	300	225	180	120	90	72	60	45	36	30	
100	200	100	50	25	17	13	10	6.7	5.0	4.0	2.0	1.0	667	500	333	250	200	133	100	80	67	50	40	33	
150	300	150	75	38	25	19	15	10	7.5	6.0	3.0	1.5	1.0	750	500	375	300	200	150	120	100	75	60	50	
200	400	200	100	50	33	25	20	13	10	8.0	4.0	2.0	1.3	1.0	667	500	400	267	200	160	133	100	80	67	
250		250	125	63	42	31	25	17	13	10	5.0	2.5	1.7	1.3	833	625	500	333	250	200	167	125	100	83	
300		300	150	75	50	38	30	20	15	12	6.0	3.0	2.0	1.5	1.0	750	600	400	300	240	200	150	120	100	
350		350	175	88	58	44	35	23	18	14	7.0	3.5	2.3	1.8	1.2	875	700	467	350	280	233	175	140	117	
400		400	200	100	67	50	40	27	20	16	8.0	4.0	2.7	2.0	1.3	1.0	800	533	400	320	267	200	160	133	
500		500	250	125	83	63	50	33	25	20	10	5.0	3.3	2.5	1.7	1.3	1.0	667	500	400	333	250	200	167	
750			375	188	125	94	75	50	38	30	15	7.5	5.0	3.8	2.5	1.9	1.5	1.0	750	600	500	375	300	250	
1000			500	250	167	125	100	67	50	40	20	10	6.7	5.0	3.3	2.5	2.0	1.3	1.0	800	667	500	400	333	
1500				375	250	188	150	100	75	60	30	15	10	7.5	5.0	3.8	3.0	2.0	1.5	1.2	1.0	750	600	500	
2000				500	333	250	200	133	100	80	40	20	13	10	6.7	5.0	4.0	2.7	2.0	1.6	1.3	1.0	800	666	
2500					417	313	250	167	125	100	50	25	17	13	8.3	6.3	5.0	3.3	2.5	2.0	1.7	1.3	1.0	833	
3000					500	375	300	200	150	120	60	30	20	15	10	7.5	6.0	4.0	3.0	2.4	2.0	1.5	1.2	1.0	
3500			KILOGRAMS			438	350	233	175	140	70	35	23	18	12	8.8	7.0	4.7	3.5	2.8	2.3	1.8	1.4	1.2	
4000					500	400	267	200	160	80	40	27	20	13	10.0	8.0	5.3	4.0	3.2	2.7	2.0	1.6	1.3		
4500						450	300	225	180	90	45	30	23	15	11.3	9.0	6.0	4.5	3.6	3.0	2.3	1.8	1.5		
5000						500	333	250	200	100	50	33	25	17	12.5	10.0	6.7	5.0	4.0	3.3	2.5	2.0	1.7		

USE THIS CHART TO DETERMINE QUANTITY OF SEED REQUIRED TO PLANT.

NOTE: Raw figures used, so allowance must be made for germination loss, field emergence, double sowing, planter accuracy & losses to insects or disease which may cause seed usage to be increased by, in some cases, 50-100%.

# PRODUCTION GUIDE

VEGETABLE	SEEDS REQUIRED PER HECTARE		SEEDS PER GRAM (Approx.)	APPROX. QUANTITY FOR 30 METRES (gram)	PLANTING DISTANCE (Approx.)		OPTIMUM GERMINATION CONDITIONS		USUAL CROP MATURITY (Days)	PLANTING DEPTH (cm)
	DIRECT (kg)	TRANSPLANT (gram)			BETWEEN THE ROWS (cm)	APART IN ROW (cm)	SOIL TEMPERATURE (°C)	EMERGENCE TIME (Days)		
Asparagus	6	2000	50	10	150	10 or 50	15 - 25	15	3 - 4 years	2.0
Beans Broad	100	-	1	250	40 - 90	10 - 20	5 - 25	10	120 - 140	4.0
Beans Dwarf	60	-	3 - 5	150	50 - 60	5 - 10	16 - 30	7	50 - 70	4.0
Beans Runner	70 - 90	-	4	70	100	10 - 15	16 - 30	7	60 - 90	4.0
Beetroot	5 - 8	-	55	15	25 - 40	5 - 10	10 - 30	8	55 - 65	2.0
Broccoli	1	300	200 - 320	5	60 - 90	30 - 60	10 - 30	8	65 - 120	1.5
Brussels Sprouts	1	300	250 - 320	5	60 - 90	30 - 60	10 - 30	8	120 - 150	1.5
Cabbage	1	300	250 - 320	5	60 - 90	30 - 60	10 - 30	8	60 - 120	1.5
Capsicum	2 - 3	450	120 - 160	5	60 - 90	30 - 60	20 - 30	10	65 - 85	1.0
Carrot	2 - 5	-	600 - 1000	5	25 - 40	2 - 5	10 - 30	8	70 - 120	1.5
Cauliflower	1	200	200 - 320	5	60 - 90	30 - 70	10 - 30	8	100 - 160	1.5
Celery	-	250	2000 - 2400	5	30 - 40	20 - 40	16 - 20	12	85 - 120	0.5
Corn	12 - 15	-	4 - 6	50	70 - 100	15 - 30	18 - 30	6	70 - 120	3.0
Cucumber	2	-	30 - 35	5	120 - 180	30 - 60	18 - 30	5	55 - 75	3.0
Eggplant	-	200	200 - 250	20	60 - 90	60	25 - 30	9	70 - 90	1.0
Kohl Rabi	2	-	300	5	30 - 40	5 - 10	20 - 25	5	65 - 70	1.5
Leek	3	1000	350	5	40 - 50	15	10 - 30	8	130 - 150	2.0
Lettuce	2	1000	800 - 1000	5	30 - 50	20 - 30	8 - 25	5	65 - 90	1.5
Melon - Rock	1.0 - 1.5	-	30 - 35	5	150 - 200	30 - 60	25 - 30	5	90 - 120	3.0
Melon - Water*	2 - 3	-	10 - 30	10	200 - 250	30 - 60	25 - 30	5	80 - 120	3.0
Onion	3 - 4	-	280 - 300	5	25 - 40	5 - 8	15 - 30	8	170 - 200	1.5
Onion - Bunching	12	-	280 - 300	10	10 - 30	2	15 - 30	8	80 - 100	1.5
Parsley	4 - 5	-	600 - 1000	5	30 - 40	10 - 20	10 - 25	15	70 - 90	1.0
Parsnip	4 - 5	-	250 - 400	5	25 - 40	2 - 5	10 - 20	14	130 - 150	2.0
Peas	70 - 80	-	5	125	20 - 60	5 - 7	8 - 20	8	60 - 120	3.0
Pumpkin	3	-	4 - 6	10	200 - 300	50 - 200	20 - 30	7	110 - 150	3.0
Radish	12	-	80 - 100	25	30	2	10 - 30	5	30 - 40	2.0
Silverbeet	6	-	40 - 60	5	40 - 50	20 - 30	10 - 30	7	65 - 70	2.0
Spinach	12	-	100 - 130	25	30 - 40	8 - 10	10 - 20	8	40 - 60	2.0
Squash/Courgette	2.5 - 3	-	5 - 10	10	150	30 - 60	20 - 30	7	45 - 120	3.0
Tomato	1.5	100	250 - 350	5	100 - 150	30 - 90	18 - 25	8	80 - 120	1.0
Turnip/Swede	2	-	450	5	30 - 40	5 - 10	18 - 30	5	60 - 100	1.5

\* Many Watermelon Hybrids have smaller seed (20 per gram) so only 2kg are required per hectare



# Thinking Cauliflower? Think Enza & Terranova



## Altair

- Medium/large framed with good swirling wrap
- Well protected curds, domed and very white
- Good weight and uniform maturity
- Good leaf disease tolerance.



## Crenique

- Medium-large framed cauliflower with a very upright growth habit
- Medium-sized, white curd with good tuck
- Well protected with a large swirling wrap
- Excellent uniformity.



## Estatique

- Large framed cauliflower suitable for a wide production window
- Upright growth habit
- Good leaf disease tolerances
- Curds are white, well wrapped and with ability to make large size
- Trials to date indicate suitable for Autumn/Spring cut in Southern states and Winter production in Queensland.



## Moonshine

- Suited for Summer harvest in Southern Regions and Autumn periods in Southern Qld
- Upright frame with excellent curd protection
- Maturity 10-12 weeks
- Exceptional first cut potential
- Smooth white curds.



## Serenity

- Med-large framed variety with strong, swirling curd protection
- Dense and heavy, white curds with a good tuck
- Good tip-burn tolerance
- Strong field tolerance to verticillium
- Uniform maturity gives concentrated first cut
- Trials to date indicate the variety is suitable for summer harvesting in the cooler southern markets
- We do not recommend Serenity for Queensland plantings.

**Sales Orders:** Phone: (02) 9616 1288 Fax: (02) 9616 1299. For production guides and cultural notes visit [www.terranoaseeds.com.au](http://www.terranoaseeds.com.au)

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**Terranova**  
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# Thinking Melons & Watermelons?

## Think Origene & Terranova



### Maxima

- Round to slightly oval: 9 – 10kgs
- Very vigorous plant
- Rind colour – broad, dark green stripes
- Very sweet taste with deep red flesh
- Outstanding flavour
- Good shelf life.



### Talca

- Slight oval: 8 – 9kg
- Plant vigour is very strong
- Rind colour - broad and very dark green stripes
- Deep red flesh colour, which is firm
- Outstanding sweet flavour
- Very good shelf life.



### Belinda

- Mini seedless watermelon
- Crimson rind pattern
- Dark red, firm sweet flesh with excellent shelf life
- Round shape
- Size between 2 – 2.5kg
- Perfectly fits 6 to 8 fruit in the box.



### Bumble Bee

- Mini seedless watermelon
- Round fruit, dark green skin
- Early maturity
- Yellow, firm flesh
- 3kgs – 4kgs.



### Coral

- Good crown set, main season melon
- Very small tight cavity
- Well-balanced plant with good vine cover
- Flesh is deep orange colour with good taste
- Fruit weight 1.8 – 2kgs
- Similar breeding and quality to Restart but 20% larger fruit
- Disease Resistance: IR Fom 2, Px.



### Gouldian

- Good size vine with excellent set
- Fully netted harper type melon
- 2.2 – 2.4kg mid-winter in Northern Australia
- Fruit has a tight cavity with good flesh colour.



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