Vegetable Seed Catalogue **2019/2020**







Dear Customer,

Welcome to our updated vegetable seed catalogue for 2019/2020. We have an extensive portfolio of vegetable species and varieties on offer, ranging from some of our existing and most popular varieties to some exciting new additions. All our varieties have been trialled and tested to ensure we provide customers with successful seeds.

Elsoms is the UK's leading independent seed company, with a team of specialists covering each crop and region of the UK. We aim to build long-term, trusting relationships with our customers, so our team works closely with growers to find the best way we can support them and their business. We are also always happy to receive feedback on how we can improve our products or increase our portfolio.

To make available the best possible varieties for UK growers, we have a strong partnership with Dutch seed breeding and production company, Bejo Zaden. By working together, Elsoms and Bejo can provide not only some of the best yielding and disease resistant varieties, but also a large range of species for the UK market. With Bejo, Elsoms has expanded further into organic and lettuce portfolios, while also maintaining our own successful breeding programmes in high quality hybrid parsnip, swede and herbs.

As a Licensed Seed Testing Station, we can support our impressive portfolio with our first-class seed treatment services, assisting from enhancing crop establishment and uniformity to the early control of pests and diseases. We are also pleased to offer an excellent portfolio of catch and cover crops, which are valuable to include in rotations of both organic and conventional crop production.

In 2019, Elsoms will be celebrating its 175th anniversary. We would like to thank all our customers and partners for their continued support and hope you will join us for what will be a memorable year.

We wish you all the best in your crop production for the coming year.

Justin Solly Head of Vegetable Sales

Our mission is to develop and market excellent varieties of vegetable and agricultural crops. We aim to produce and supply top quality seed, often treated, to improve crop production with first class service. We strive for efficient and effective production processes and profits for research and development, for physical investments, for good jobs and for our shareholders who back us — all this with the professionalism, friendliness and honesty which is our tradition.



Elsoms The Seed Specialists

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Symbol Key

Also available as Organic

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Why use Elsoms?

"We are a strong, modern and innovative plant breeding, seed supply and seed treatment business built upon a well-established, solid foundation."

We are a strong, well-established business that you can rely on

Elsoms staff bring together the professionalism, friendly outlook and teamwork of an established organisation with the innovation, enthusiasm and energy that help our customers achieve their goals.

We are seed specialists offering local support throughout the UK

Elsoms is the UK's leading independent seed company — we are seed specialists. Our teams are made up from experts in each crop and each region, offering trustworthy, integral support to growers in all areas of the UK. We build long-term relationships with our customers by being honest, honouring our commitments and building on our reputation for sincerity and professionalism.

Ongoing investment into new technology and facilities

Our programme of continual investment in up to date technology, training and facilities ensures that our seed is bred, selected, handled, treated, tested, packed and delivered using state of the art equipment, developed with the latest scientific advances in mind. Our constant investment and innovation give our seed and our customers the best start every season.

Efficient and unrivalled seed treatment service

Our extensive knowledge of seed treatments covers horticultural, ornamental and agricultural crops, using the latest in seed treatment technology and processing to bring our customers the highest quality seed products available.

Quality of seed is our highest priority

Elsoms has been awarded European Seed Treatment Assurance (ESTA) accreditation. ESTA is a universal quality assurance scheme that guarantees high quality seed with professional seed treatment application processes. We use the latest methodology to prevent and control seed-transmitted disease, investigate innovative new techniques for seed priming and treatment and we are always looking for new ways to achieve higher quality.

Our first-class delivery and service

Our fully computerised stock system and first class stock control help us allocate orders quickly and accurately. Over 95% of our 'next day' deliveries arrive on time. You can rely on us to get your order to your door safely on the promised date.

Great portfolio of genetics, fully tested in the UK

All of the above are complimented by the outstanding portfolio of genetics from Bejo, whose products we are proud to exclusively distribute in the UK. Bejo is a leading international vegetable breeding, seed production and seed processing organisation, offering more than 1,000 vegetable varieties and representing 50 crops. We work closely with Bejo, fully testing all varieties at locations across the UK to ensure that we offer our customers the best seed for their specific growing conditions.



Where to find us

To view our portfolio online, download our brochures or to see the latest news including variety updates, open days and events, please visit our website www.elsoms.com

Elsoms Open Days

We are proud to host our annual vegetable open days, showcasing our portfolio of products. Held in October, our open days provide an excellent opportunity for visitors to network, share information, speak to our technical specialists and view our excellently maintained trial site.

Elsoms on Twitter

For all the latest news including press releases, event information and job vacancies, follow us on Twitter:

@Elsomsseeds

Elsoms Customer Service - our commitment to you

At Elsoms, we're continuously improving all aspects of our business, so that you can improve yours.

Our seed quality

We aim to supply you with the best quality seed in every delivery. **Each year our analysts check over 7,000 seed lots.** We're always looking to achieve higher quality, and testing new techniques for seed priming and treatment.

At every stage of seed cleaning and treatment, a germination test is carried out to ensure that the seeds stay healthy and deliver excellent results.

All Elsoms' laboratory analysts are trained and qualified at the prestigious National Institute of Agricultural Botany (NIAB). Testing is carried out using international methods as prescribed by the International Seed Testing Association (ISTA). That's why you can rely on the germination figures that we supply to you.

However, a seed-testing laboratory cannot recreate all the environmental variations that a seed lot might experience in the field. So we work to standard germination procedures developed by ISTA. That means optimum conditions for germination and consistent results between laboratories.



To supply you with the healthiest possible vegetable seeds, and comply with EU regulations, we use the latest strategies to prevent and control seed-transmitted diseases.

These include seed health testing programmes, protected seed production, field inspections, seed treatments and other effective seed disinfection methods

ESTA

 ${\bf Elsoms\ work\ to\ the\ ESTA\ (European\ Seed\ Treatment\ Assurance)\ standard.}$

- Universal quality assurance scheme
- Guarantees professional and high quality seed treatment application.

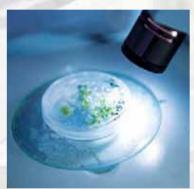
Our technical support and variety selection

Above all, Elsoms stands for first class varieties. We work closely with our main suppliers: market leaders Bejo Zaden as well as Holland Select.

We have developed our own plant breeding programme, particularly for parsnips and swede, and we run joint breeding programmes with Bejo for Brussels sprouts and purple sprouting broccoli.

Our variety trials span a huge range of crops at many UK locations. We use the data they generate to supply you with up-to-date advice and information that will help you choose the best variety for your needs.









Seed Treatment Services

Early control of seedling disease and insect pests is vital for successful crop production and seed technology plays a significant role in obtaining the best start for your crops.

With over 30 years' experience treating seed, Elsoms is committed to delivering the highest quality seed using world-class technology and services.

With a certified seed laboratory with NIAB qualified seed analysts, and ESTA accreditation, Elsoms can quarantee that the quality of your seed is of the highest standard.

Process and products

Elsoms offer an extensive range of products and processes; please contact a member of the team to discuss a package tailored to your requirements.

Our seed technology options:

Grading, sorting and sizing

- Cleaner, healthier seed better emergence in the field
- Uniform size and improved seed drill performance – more even spacing in the field
- Improved density, shape, length and size
- Dust and impurity removal

- Can remove germination inhibitors from the seed, facilitating germination
- Penetrates deep into the seed coat removes some seed-borne pathogens
- Allows some seed types to be primed

Disinfection/sanitation/ hot water treatment

- Delivers cleaner, healthier seed
- Removal of specific seed-borne pathogens
- Reduction in seed microbial content
- Fungal and bacterial targets
- Some products could be organic
- Hot water treating up to 60 degrees Centigrade

Priming

- Improvement in germination and establishment, creating a more uniform crop
- Better crop stands, optimising marketable yield
- Breaking natural dormancies in various seed types

Encrustment

- Part way between a filmcoat and pellet
- More regular seed shape with the minimum amount of fillers, easier to drill than filmcoated/precision seeds
- TopKote® and OnX®

Pelleting

- Increases the size, weight and uniformity of the seed, maximising sowing/drilling efficiency
- A key part of improving crop establishment
- An ideal way of loading plant protection products (PPPs) and their active ingredients onto seed - a key part of improved crop establishment
- SplitKote Light 3.5®

Filmcoating

- High quality filmcoating to flow easily through machinery allowing easy, uniform drilling
- Easily visible colour coded seed visible in the soil
- Accurate application of PPPs an efficient and environmentally friendly way of aiding seedling growth
- Uirtually dust free, smooth coating safer for the environment and the user

Seed testing

- Seed testing ensures seed quality throughout all processes
- Continuous monitoring of seed performance allows for improvements to be made at each stage
- Seed is tested in our laboratory by fully qualified analysts



Elsoms offer a superb variety selection of organically-produced seed. Bejo Zaden, our main supplier and market leader in organic biennial vegetable seeds now has over 150 varieties in 40 species available as organic seed.

Bejo Zaden has over 15 years of experience in producing organic seed, to the same quality targets as conventional seed. Seed is produced in the most suitable climatic conditions in France, New Zealand, Italy and the USA, and new hybrids are assessed on trial fields in many locations. To support top quality seed production, the company is researching and developing new treatments against seed-borne diseases.

Our organic assortment is listed on the right, and full variety descriptions can be seen in this catalogue. Please check our website **www.elsoms.com** or contact us for more information about our organic range.

ROOTS & ALLIUMS	
Species	Variety
Beetroot	Boro
Carrot	Miami
	Napoli
	Yellowstone
Onion	Red Baron
	Hytech
	Redspark
Leek	Rally
	Curling
	Swiss Giant Lancia
	Blauwgroene Autumn Pandora
	Blauwgroene Autumn Bandit
	Runner
Shallot	Matador
	Conservor

Miami

Second early variety with long shanks and upright leaves. High yielding with excellent standing ability.



Organic

BRASSICAS	
Species	Variety
Borecole	Redbor
Calabrese	Covina
	Belstar
Sprouting broccoli	Rioja
	Santee
Brussels sprout	Nautic
	Doric
Green cabbage	Drago
	Amazon
	Stanton
Pointed cabbage	Caraflex
Red cabbage	Klimaro
	Integro
	Subaro
	Buscaro
Savoy cabbage	Famosa
	Paresa
	Cantasa
White cabbage	Reaction
	Impala
Cauliflower	Liria
	Goodman
	Skywalker
	Veronica
	Medaillon
	Belot
Kohl rabi	Korist
	Kolibri

Covina

Solid, domed head with medium sized beads with good colour. Harvest period July-November with an 80 day maturity.



DIVERSE	
Species	Variety
Radicchio	Leonardo
	Rubro
Climbing French bean	Cobra
Runner bean	Enorma
Salad onion	Parade
Celery	Tango
Spinach	Renegade
Radish	Rudolf
Florence fennel	Rondo
Lettuce	Malis (Butterhead)
	Times (Iceberg)
	Sementel (Green Batavia)
Chinese cabbage	Kaboko
Coriander	Filtro
Parsley	Krausa (moss curled)

Runner

Runner is a variety for late summer to late autumn harvesting with long shanks and upright leaves. This is a high yielding variety with excellent standing ability.



Elsoms Research and Development

The Elsoms trials and plant breeding department is built around the following objectives:

- To breed Elsoms own parsnips, swede, turnips and specific herb varieties to sell in the UK and overseas
- To work jointly with Bejo to breed Brussels sprouts, sprouting broccoli and spring cabbage
- To trial, select and breed varieties most suited to environmental conditions across the UK
- To trial, select and breed varieties that meet the specifications of the UK vegetable market



What do you want to grow?

We invest heavily in our own vegetable breeding programmes and in joint breeding programmes with Bejo. Our breeding teams are constantly in touch with our loyal customer base. We want to breed and trial the species and varieties that YOU want to grow. We run trials across the UK on a wide range of species, not just those featured in this catalogue. These are available for visitors to head office to see at any time.



We have a programme of continual investment to ensure that the plant breeding department are always using contemporary methodology, technology and facilities. Recent years have seen the addition of a new pathology lab, growing rooms, a microbiological cabinet, minus twenty degrees freezer and a glasshouse constructed specifically for pathology research.

Joint breeding programmes with Bejo

The plant breeding department carries out trials and seed production in the UK in order to select breeding lines and F1 hybrids specifically for the UK market. The joint breeding programmes with Bejo help us to breed better plants by combining the expertise of both companies, giving us access to a wider genetic range.

Our breeding programmes

We are particularly proud of our own specialised parsnip, swede, turnip and herb breeding programmes, working with some of the UK's top research institutions in projects such as PhD doctorates or KTP's (Knowledge Transfer Partnerships). This collaboration enables us to make use of their research facilities as well as our own, combining genetic and pathology expertise.

Parsnips, in particular, are an Elsoms speciality, bred for high yield, taste, extension of harvest period, late storage, early vigour, colour and disease resistance. Our pathology staff have the skill to use DNA markers in our parsnip lines, so that we can link the phenotype with the genotype. This allows us to identify disease resistant lines as well as looking at other traits, such as crown depth, skin quality or yield, for future breeding and trialling.









Pack Sizes

Please see the table (below) for the minimum pack size quantities.







Each seed lot is subjected to a long post-harvest process of cleaning and quality inspections. Many seeds are subsequently processed into unique product forms which include protection against fungal diseases and insects and give excellent germination quality.

Minimum pack sizes

Pack Sizes by count (TH) or weight (KG)

Vegetable Crop	Conventional	Organic		
Leek: Seed Pills	10,000 25,000	10,000 25,000		
Onion	50,000	50,000		
Bunching onion	50,000 1kg	10,000 N/A		
Shallots	50,000	50,000		
Red beet	50,000	50,000		
Brassicas	2,500	1,000		
Swede F1	25,000 50,000	N/A N/A		
Swede OP	500g	N/A		
Coriander	500g	500g		
Parsley	500g	25,000		
Broad bean	2.5kg	N/A		
Climbing bean	1kg	1kg		
Runner bean	2kg	2kg		
Dwarf bean	25,000 2kg	N/A N/A		
Peas	5kg	N/A		
Carrots	50,000	50,000		
Parsnip	25,000	N/A		
Celeriac	10,000 10,000	10,000 10,000		
Celery	10,000 10,000	10,000 10,000		
Courgette / Marrow	1,000	1,000		
Radicchio	10,000	5,000		
Fennel	10,000	2,500		
Lettuce	5,000	5,000		
Spinach	50,000	50,000		

ALLIUMS

Elsoms has an excellent range of allium species from the Bejo/De Groot en Slot breeding partnership.

The onion programme continues to expand and add to our portfolio of products, with new varieties coming through trialling all the time. Recent successes include downy mildew resistant variety Hylander, in addition to the early maturing Hysky.

We also work closely with the English Set Company who are licensed to grow and distribute our onion set varieties in the UK.

Also available as Organic

Spring sown bulb onion

Hybing

An early, high yielding Rijnsburger. Strong rooting helps Hybing in warm, dry conditions to produce high yields of superb round bulbs. It also has mid-term storage potential.

Hysky

Early maturing variety, currently in trials. Potential for higher levels of resistance to Fusarium than existing varieties. Please contact us for more information.

Hypark

A mid-early Rijnsburger, which has given excellent results. Hypark produces beautiful round, uniform bulbs and is suitable for long-term storage.

Hybound

An early Rijnsburger which produces attractive brown bulbs. Hybound is early maturing and suitable for long term storage.

Hytech

A consistently high yielding and commercially proven variety. Hytech is ideal for extending your harvest window and is suitable for long-term storage.

Hyway

The UK's highest yielding spring sown brown onion. Hyway is a mid-season variety that is uniform and has outstanding long-term storage.

Hylander

Hylander has a high resistance to downy mildew. It produces good yields of round bulbs which have good storage potential.

Hyfive

Hyfive has market leading skin quality with a superb sprouting tolerance. A late variety with excellent quality bulbs and is perfect for long-term storage.

Armstrong

A standard late variety, which has consistently given excellent results over many years.

Red Light

Very high yielding, early variety with short to mid-term storage potential.

Red Tide

Maturing approximately one week earlier than Redspark, Red Tide has similar storage potential. A strong rooting system helps Red Tide produce good yields of round, attractive bulbs.

Redspark

Hybrid red onion, which yields slightly less than Red Baron but gives a higher percentage of pre pack quality.

Red Baron

An industry standard red onion, which continues to be a market leader. A high yielding red variety.



Bulb onion storage guide

Variety	Earliness	Yield	Skin quality	Sprouting in May	Firmness	% Dry matter	Relat	ive storage pote	ential
		;	Spring sown – Yello)W			Short-term	Mid-term	Long-term
Hybing	8.1	104	7	6	7	11.1			
Hysky	8	104	8	8	8	11.2			
Hypark	7.1	104	9	8	8	11.5			
Hybound	8	99	9	9	8	11			
Hytech	7	105	9	8	8	11.3			
Hyway	7.1	106	8	8	8	11.6			
Hylander	6.5	100	8	7	7	11			
Hyfive	6.2	103	8	9	9	11.4			
Armstrong	6.2	100	8	8	8	11.5			
			Spring sown – Re	d					
Red Light	12.2	105	7	5	6	13			
Red Tide	7.5	99	5	7	7	13.2			
Redspark	6.5	100	6	7	6	13			
Red Baron	6.3	101	5	7	6	13.3			

Every year the breeding department of Bejo/De Groot en Slot test their varieties at trial sites in the UK and Europe. The above information is based on averages from three years of these trials.

Use of sprout suppressants, cold and CA storage can alter the relative values.

Bull onions from sets

English Set Company are licensed to grow and distribute our range of onion set varieties in the UK. If you wish to order our onion set varieties please contact English Set Company for more information on 01508 550412.

Bejo/De Groot en Slot are breeding varieties with characteristics specifically suited to set production. Our range includes the listed varieties:



Troy

Brown hybrid recommended for autumn planting.

Brown hybrid which gives attractive round bulbs from spring planting.

Stur BC 20

Maincrop standard. An outstanding selection.

Red Light

Very high yielding, early variety with short to mid-term storage potential.

Red Ray

Uniform quality onion with excellent skin. Beautiful ruby colour. Productive with a strong root system. Good keeping qualities.

Boga

A mildew resistant maincrop variety which has been trialled successfully in the UK.



Onion sets storage guide

		•					
Variety	Earliness	Yield	Skin	Storage & capacity*	Firmness	Heat treated	% Dry matter
Troy	14.5	110	N/A	N/A	6	No	14.5
Forum	14	90	N/A	N/A	6	No	14.5
Stur BC 20	11.7	100	8	8	8	No	15.6
Red Light	12.2	105	7	8	6	Yes	13
Red Ray	11	105	8	9	7	Yes	15



^{*} Relative to other varieties grown from sets. Every year the breeding department of Bejo/De Groot en Slot test their varieties at trial sites in the UK and Europe. The above information is based on averages from three years of these trials. Use of sprout suppressants, cold and CA storage

Over wintering bulb onion

A very early Japanese overwintering hybrid. Globe, uniform onions with a good shape and a good bolting tolerance. Produces good quality onions suitable for fresh market.

A few days later than Element, Bridger is high yielding, has good bolting resistance, a nice shape and improved skin.

Over wintering onion variety guide

Variety	Earliness	Yield	Firmness	Skin after harvest	% Dry matter
		Yellow			
Element	14.4	96	7	5	9.1
Bridger	14.0	102	7	7	10.1

Kev

Earliness – 1 point higher indicates harvest can be one week earlier

Yield – figures are ratios Skin quality – rated 1-10 Firmness – higher figure the greater the firmness

The above figures are taken from Bejo/De Groot en Slot 3 year trials. We have a wider range of genetics available if required. Please contact Head Office for more details on our whole range.

Shallot

Ambition

A reddish-brown shallot with an attractive shape. Due to good skin and storage quality Ambition is suitable for very long storage, and suitable for spring sowing.

Matador

Comparable with Ambition, but with a globe shape and slightly redder colour, suitable for spring sowing.

Conservor

A high yielding variety with a nice long elongated French-type shape.





Shallot guide

Variety	Earliness	Yield	Skin quality in May	% Dry matter	Mild/ Pungent	Shape	Suitable for peeling			
Red/brown										
Ambition	6.6	126	9	17.4	5.8	Globe/elongated	+/-			
Matador	6.6	125	10	17.4	5.8	Globe/elongated	+/-			
Conservor	6.4	125	9	17.8	5.9	Elongated	+/+			







Hybrid Leek cropping guide

Hybrid Leek

Rally

Elsoms' earliest summer leek and is strong against thrips. Rally is highly productive with a medium to long shaft length. It has good holding ability and resistance to leaf breakage, making it excellent for peeling.

Fencer

Early maturing variety with a very long shank that is suitable for the prepack market. Not typically dark green but has a good appearance with a white shank.

Batter

A main crop variety with good shank length, a nice green colour and with excellent standing ability.

Runner

Runner is a variety for late summer to late autumn harvesting with long shanks and upright leaves. This is a high yielding variety with excellent standing ability.

Surfer

A compact hybrid variety for autumn and winter production. It produces medium-long solid shafts with short white/green transition. Surfer has good bolting tolerance and has intermediate resistance to Alternaria and Rust.

Curling

Late autumn leek that has good potential for Christmas and January production. A very good blue/green leaf colour. It is slow growing with an upright leaf habit and good shaft length, giving Curling a good standing ability in the field. Very healthy growing habit and easy to clean.

Defender

A late variety with a good green colour. A good shank length with low sprouting and bolting.

Open Pollinated Leek

Blauwgroene Autumn Pandora ORGANIC ONLY

Early variety of excellent uniformity with long stems and upright leaves. Vigorous growth and highly productive.

Jolant

Early variety with upright, smooth stems and medium-long shafts. Vigorous and heavy yielding.

Blauwgroene Winter Bandit ORGANIC ONLY

High yielding and uniform variety. Upright growing, with dark blue/green foliage. Produces medium-long white stems of high quality.

Swiss Giant Lancia

Very heavy cropping early variety for summer and early autumn. Long white shanks and strong foliage.

Blauwgroene Autumn Lancelot

Highly productive variety with long white shanks. Dark green upright foliage and no bulbing.

Variety	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rally												
Fencer												
Batter												
Runner												
Surfer												
Curling												
Defender												
Planting		Harvesting			oping guide, vari			-		er, some perforr	n quite satisfact	orily from

BEETS

Elsoms offer an excellent range of beetroot varieties from Bejo. We are pleased to introduce exciting new varieties to complement our current range.

Our market-leading portfolio this season continues to perform, with impressive results.

Also available as Organic

Beetroot

Action

Maincrop, late production. Excellent quality beet with smooth skin and uniform shape. Strong tops make this variety easy to harvest.

Pablo

Versatile, market leading variety which responds very well to high density sowings. Pablo is used for early, maincrop, and late production. Very uniform shape and excellent skin quality. High yield of top quality roots with superb colour.

Manolo NEW

Excellent, strong leaf quality and vigour. Smooth roots with attractive red-purple colour. Ideal processing variety.

Rettollo

Later maturing variety. Approximately 2 weeks later than Pablo, it can be sown from mid-April for main and late production. Bettollo produces high quality, uniform roots, a good round shape and an intense colour. It has relatively high brix levels which are maintained during storage, resulting in a long-lasting flavour throughout the season.

Boldor

An attractive, smooth and round yellow beet for fresh market purposes. Unlike other golden beet varieties, Boldor can be sown early for an extended production season.

Avalanche

Avalanche produces distinct pure-white roots with a round, uniform shape. Avalanche has healthy and vigorous foliage.

Other varieties in our current range:

Boro

Alto (cylindrical)
Taunus (cylindrical

Taunus (cylindrical)









Beet cropping guide

Variety	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Action												
Pablo												
Pablo												
Manolo NEW												
IVIAIIOIO INEVV												
Bettollo												
Boldor												
Avalanche												
Sowing		Harvest		Storage	e (field or indo	or)						

BRASSICAS

We are delighted to offer the superb range of brassicas from Bejo Zaden, leaders in biennial crop breeding.

Elsoms has joint breeding programmes with Bejo for Brussels sprouts and sprouting broccoli, as well as its own hybrid swede breeding programme, reflecting a passion for breeding traditional 'British' vegetable crops.

We are always looking to improve brassica crops. The catalogue shows a selection of the portfolio and the range is continually reviewed. Contact us for more information.

Also available as Organic Borecole

BJ 3055 (Oldenbor)

NEW

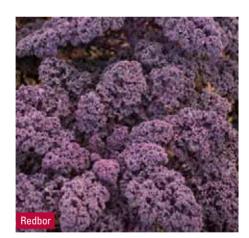
A new variety with a good leaf to margin ratio and winterhardiness, providing a longer period for harvest.

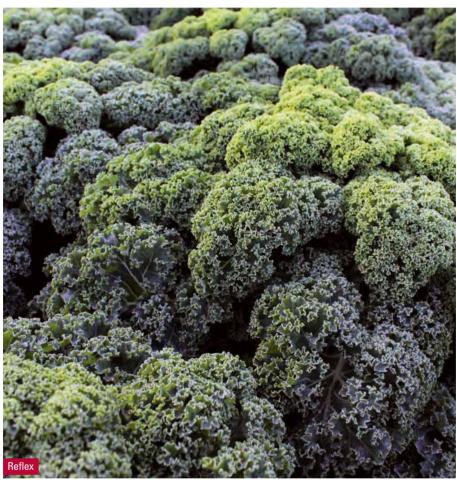
Reflex is the leading borecole variety grown in the UK. It is very flexible and high yielding with a long harvest window. Reflex gives very few yellow leaves even in late winter.

Redbor

Redbor is the leading red borecole variety grown in the UK. It has a distinctive leaf which contrasts with standard green types.

Other varieties in our range include Starbor, Winterbor and Culinary Black Kale.





Rorecole and Culinary Kale cronning quide

D 0.00	oic alla oal	illially i	idio o	.opp.	9 9	iuo						
Variety	Leaf	Approx height (cm)	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
					Borec	ole						
Starbor	Very dark green	30										
Winterbor	Dark blue/green	50										
BJ 3055 NEW	Green	60										
Reflex	Green	60										
Redbor	Red	60										
					Culinary	Kale Kale						
Black Kale	Long, thin black savoyed	40										

Planting Maturity

Broccoli

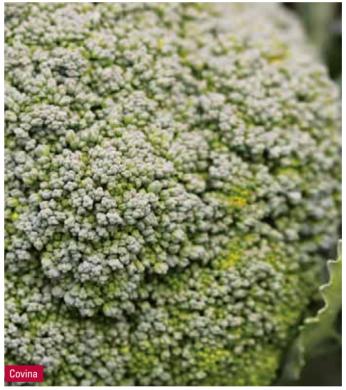
Covina

Solid, domed head with medium sized beads with good colour. Harvest period July-November with an 80 day maturity.

Other varieties in our range include Belstar, also available as an organic variety.







Broccoli cropping guide

Variety	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Covina								
Belstar								
Di vi								
Planting	Maturity							

Brussels sprouts

Davlin

Excellent plant vigour, Davlin produces beautiful round/ oval sprouts, well spaced on the stem. Leaves drop cleanly.

NFW **BE 3092**

An early variety with good vigour and excellent button colour.

Dagan

Early Abacus type. Dagan has a fresh green colour, drops leaves easily with very good standing ability. Suitable for fresh market purposes.

Marte

Very vigorous high yielding variety. Marte has good standing ability and excellent button quality. The large button size helps with the reduction in yellow leaf. Harvest period is October-November.

Nautic ORGANIC ONLY

A variety ideal for harvesting from November to Christmas. Strong, vigorous variety with excellent button quality.

Helios

A November harvesting variety. Helios produces very uniform, high quality buttons with a strong button colour.

Neptuno

Medium sized sprout on tall upright stems. Very good resistance to white blister. Suitable for harvest from early November through December.

Pontus

A Christmas harvesting variety with excellent uniformity and strong button quality.

A standard high yielding variety for December harvest, Doric has good vigour and standing ability. Its upright stems make it ideal for use as stalks. Medium green, round buttons and foliage. Our best selling variety.



Faunus

Very late, long stemmed variety suitable for fresh market as well as industry purposes.

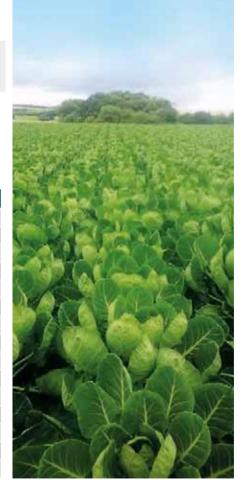
BE 3097 (Hector)

A variety with excellent vigour that produces high quality buttons. Ideal for harvesting from December to February.

Other varieties in our range include Speedia, Steadia, Octia and Sofia.

Brussels sprouts cropping guide

Variety	Sep	0ct	Nov	Dec	Jan	Feb	Mar
Davlin							
Speedia							
BE 3092 NEW							
Dagan							
Marte							
Nautic							
Helios							
Steadia							
Neptuno							
Pontus							
Octia							
Doric							
Sofia							
Faunus							
BE 3097 NEW							



Harvesting

Green cabbage

Summer cabbage

Drago

Early maturing autumn-winter, dual-purpose variety for fresh market. It is vigorous with round, firm heads and attractive green outer leaves.

Amazon

A main season variety, ideal open market size. Good field standing, excellent colour.

Other summer cabbage varieties in our range include Perfecta and Gazelle.

Autumn/winter cabbage

Renton

Green winter cabbage type. Renton has a fresh dark green dense and upright habit, with round and solid heads. Suitable for the autumn and early winter crop. Maturity approximately 90 days after transplanting.

Stanton

Stanton produces compact, dark green round heads with a medium/dense structure. A vigorous variety with an excellent standing ability that is cold tolerant. Suitable for winter and early spring production. Maturity approximately 130 days after transplanting.

Deadon

Hybrid variety of this traditional January King type of cabbage with dark green outer leaves. Deadon produces flat round, solid heads with a red tinge and a nice yellow internal colour. Colour appears earlier than other similar types, and can be increased with stressed growing conditions. Maturity approximately 110 days after transplanting.

Spring green

BE 3285

NFW

A spring green new for summer and winter trials.







Green cabbage cropping guide

Variety	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
				S	ummer cabbag	le .					
Drago											
Amazon											
Perfecta											
				Autu	mn/winter cab	bage					
Renton											
Stanton											
Deadon											
Planting		Harvesting									

Pointed cabbage

Pointed typesNot recommended for autumn sowings.

Caraflex

Well-established, very popular variety. Very attractive, smooth conical shape, producing uniform, attractive heads. Maturing approximately 75 days from planting.

Duncan

Suitable for all year round production. Compact attractive habit produces excellent greens and hearts. Good shelf-life with low stem to leaf ratio.

Antonio

A new variety for 2019 that is currently being trialled.





Pointed cabbage cropping guide

Variety	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Caraflex												
Duncan												
Harvest period	d from spring p	olantings		Harvest p	eriod from au	tumn planting	s					

Red cabbage

Small heads

Primero

First early pre pack, recommended for close spacing. Usual harvest period mid July-mid August. Approximately 75 days from transplant to maturity.

Alfaro

An excellent early variety producing a rounded shape and solid heads.

Kosaro

A very promising, productive Primero type with Fusarium resistance. Suitable for early market.

Good shape, ideal for fresh market. Suitable for harvest in August and September. Approximately 95 days from transplant to maturity.

Davaro NEW

With excellent standing ability and an ideal 1kg head size, Davaro is suitable for harvest in August and September.

CLUBROOT Lodero

Main crop storage red cabbage. This variety shows high resistance to one or more races of the club root fungus. Medium sized heads suitable for pre pack use. Good deep red colour.

Klimaro

A very popular variety. Long storing with strong sales. Suitable for pre pack and processing. Very good internal

Large heads

Buscaro

Specialist variety for processing only where head weights of 2.5kg are required. Suitable for September-October harvest.

Huzaro

A very consistent performer, Huzaro is a standard long-term storage variety. Approximately 140 days from transplant to maturity.







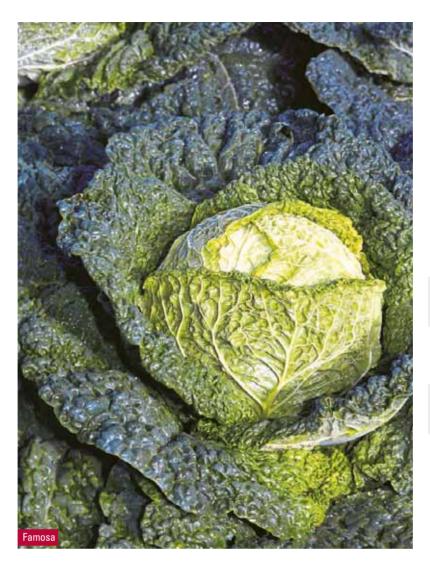
Red cabbage cropping guide

Variety	Approx transplant to maturity time (days)	Uses	Storage potential	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Primero	75	Pre pack/fresh	Limited									
Alfaro	75	Pre pack/fresh	Limited									
Kosaro	75	Pre pack/fresh	Limited									
Integro	95	Pre pack/fresh	Limited									
Davaro NEW	95	Pre pack/fresh	Limited									
Lodero	135	Pre pack	Long-term									
Klimaro	135	Pre pack/fresh/processing	Long-term									
Buscaro	110	Processing	Limited									
Huzaro	140	Pre pack/fresh/processing	Long-term									



Planting

Harvesting



Savoy cabbage

Alcosa

Vigorous early plant habit with attractive, solid heads.

Famosa

Early maturing with very attractive fresh green colour. Compact and solid heads. Suitable for August and September harvest.

Clarissa

Bridges the gap between the very early varieties, such as Famosa, and the late autumn types. Produces attractive heads from a medium, vigorous plant habit. Best suited to harvest during September and October.

Sabrosa

Sabrosa has dark green deeply savoyed leaves and produces a neat head from a compact frame.

BJ 3052 NEW

An October to December maturing variety with excellent standing ability and superb quality.

Firensa

Short core with attractive colour and presentation. Good frost tolerance. Usual maturity period is October to December.

BJ 3053 (Impresa)

NEW

A January to March maturing variety with good winterhardiness and excellent quality heads.

Barbosa

Compact winter hardy variety with good commercial results. For the late autumn/winter period. Easy to cut and pack.

Wirosa

Excellent quality with long standing ability. Finely blistered leaves with a vigorous plant habit. Usual maturity period October-February.

Wintessa

Extremely good standing ability with short stem and very winter hardy. Very late maturity. Usual maturity period is December-March.

Paresa ORGANIC ONLY

Very late reliable variety. Usual maturity period December - March.

Savoy cabbage cropping guide

Variety	Approx days from planting to maturity	Approx length of cut (days)	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Alcosa	71	7									
Famosa	78	14									
Clarissa	108	20-25									
Sabrosa	140	30									
BJ 3052 NEW	150	40									
Firensa	150	40									
BJ 3053 NEW	150	40									
Barbosa	160	40									
Wirosa	162	45									
Wintessa	199	70									
Paresa	195	70									

Maturity

White cabbage

Early processing varieties

Almanac

High yielding variety. Approximately 90 days from transplant to maturity.

Passat

Ideal white cabbage variety to follow Almanac. Large white head, good internal quality.

Typhoon

Produces large, dense heads. Suitable for harvest both direct from the field and as mid-term storage. Very healthy and strong against thrips.

Maincrop processing varieties

Suitable for long-term storage.

Colmar

Produces very healthy clean heads with very long-term storage potential.

Counter

Predominantly used for coleslaw production. Very healthy and high yielding.

Expect

Healthy white cabbage with a short stem and green leaves. Produces medium to large heads with a very dense internal structure.

BJ 3160 (Zacapa)

A variety with excellent quality which is good for processing and is suitable for long term storage.

Other white cabbage varieties in our range include Perfecta, Impala (also available in organic), Lennox, and Sircon.

Pre pack varieties

Drago

Early maturing autumn white. Well suited to close spacing. Can be peeled and marketed as a pre pack white cabbage. Healthy clean variety for mid-term storage. Matures mid-September to mid-October. Approximately 130 days from transplant to maturity.

Reaction

Healthy round kilo cabbage with long-term storage potential. Reaction has been a consistent performer in trials over the past few years. Our earliest long-term, storage, small white cabbage. Approximately 130 days from transplant to maturity.

Kaluga NEW

A variety with excellent uniformity and vigour. Kaluga produces a 1kg head size and is suitable for long term storage.



White cabbage cropping guide

Harvesting

Variety	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Almanac									
Passat									
Typhoon									
Colmar									
Counter									
Expect									
BJ 3160 NEW									

2/1

Planting

Summer/autumn cauliflower

Jerez

Maturing 3-4 days after Flamenco. Jerez is a very versatile summer/autumn cauliflower. Produces first class curds from 'face pack' through to large. The plant has upright, healthy foliage with an attractive clean base.

Produces medium size curds with fine structure and good wrap with leaves opening up at harvest. Suitable for summer and early autumn harvest. 80 day maturing variety. Upright habit allows this variety to be a two cut product.

NEW Toledo

Strong, vigorous, very good solid compact heads. Similar in maturity to Arano.

Skywalker

Outstanding autumn cauliflower with 95-110 days to 50% cut. Skywalker has a very clean base. Deep white, well protected curds.

Late autumn cauliflower

Telde

October/ Nov harvest. Vigorous plant with clean leaf and good frame. Visible curd at harvest.

Other summer/autumn cauliflower varieties in our range include Oviedo, Flamenco, Tarifa, Fargo and Cantabria.

Green/Romanesco cauliflower

Veronica

Excellent vigorous romanesco variety for late summer and autumn.

White Gold

White Gold has a more compact habit than Veronica. It is suitable for harvest in summer/autumn.



Summer/autumn and green/Romanesco cauliflower cropping guide

Variety	Approx maturity time (days)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
				Sum	mer cauliflo	ver						
Oviedo	69											
Flamenco	76											
Jerez	80											
Liria	81											
Toledo NEW	89											
Fargo	92											
Skywalker	96											
				Green/Ro	manesco ca	uliflower						
White Gold	89											
Veronica	91											
				Late a	utumn caulif	ower						
Belot	Autumn x Roscoff											
Maginot	Autumn x Roscoff											
				Late a	utumn caulif	ower						
Cantabria	Autumn x Roscoff											
Telde	Autumn x Roscoff											
Belot	Autumn x Roscoff											
Maginot	Autumn x Roscoff											
Planting	Harves	_	early July.			g SW Englar g SE England			arvesting Col			

Cornwall Winter cauliflower types

Paciano

Vigorous upright leaf habit with a visible white curd.

Baterno

Vigorous upright leaf habit with a white curd and good wrap.

Gerona

Healthy plant with good cover.

Cartegena

A vigorous mid May harvesting variety, Cartegena produces well-protected, excellent white curds which open at harvest.

Other varieties in our range include BJ 3028 and BJ 3029, which are available for trials, and Medaillon, which is available only in organic.



Winter cauliflower cropping guide - Cornwall

Variety	Nov	Dec	Jan	Feb	Mar	Apr	May
Paciano							
Baterno							
Medaillon							
Gerona							
Isadora							
Tempest							
Vogue							
Jerome							
Nomad							
Fletcher							
Cartegena							







Lincolnshire Winter cauliflower types

Fletcher

May harvesting with good curd quality.

Cartegena

A vigorous mid May harvesting variety, Cartegena produces well-protected, excellent white curds which open at harvest.

Seth

Trials only. Mid-late May harvest period, well protected with good vigour.

Douglas

Late April maturing Walcheren cauliflower with good protection and a deep white curd. This variety has performed well in varying weather patterns in the past few years.

Other varieties in our range include BJ 3028 and BJ 3029, which are available for trials.







Winter cauliflower cropping guide - Lincolnshire

Variety	Mar	Apr	Мау
Fredor			
Isadora			
Tempest			
Gerona			
Jerome			
Corella			
Vogue			
Nomad			
Admirable			
Douglas			
Chester			
Fletcher			
Cartegena			
Seth			



Maturity

Kohl rabi

Kolibri

Mid-early variety. Purple skinned with flattish round shape and excellent white flesh quality.

Korist

Very early, white skinned variety suitable for forcing. Flattish globe shape with mild, crisp flesh and holds well without getting woody. Korist has strong, erect and vigorous foliage.

Kodiak

An ideal processing variety with excellent taste and 2kg to 4kg head size.





Kohl rabi cropping guide

Variety	Skin colour	Flesh colour	Apr	May	Jun	Jul	Aug	Sep	Oct
Kolibri	Purple	White							
Korist	White	White							

Planting Maturity

Swede

Tweed

Our leading hybrid Swede from our own breeding programme. Uniform, globe shaped roots with a vigorous early growth habit.

Esk

This new and exciting main season variety has been bred by Elsoms own vegetable breeding team. Esk is a traditional globe shape with a vibrant purple/cream skin colour and short neck. It has been successfully trialled on all soil types and maintains a consistently uniform pack-out yield.

Helenor

Suitable for maincrop/late production of pre pack specification swede. Good globe shape, with a neat neck and root. Deep colour is achieved early in root development. Excellent flesh quality, and a sweet taste.

Skerne

A green topped, hybrid variety with excellent uniformity.





Sprouting broccoli

Purple

Santee

The market leader for summer and autumn harvest. A beautiful, bushy plant which is suited to multiple harvesting from June to early November. Can also be used in the spring.

Rioja

One of our most recent introductions, Rioja has a very vigorous habit which is suited to early spring harvests.

Mendocino

Very uniform hybrid producing good yields of excellent quality spears. Follows Santee and Rioja giving consistently high quality in this 'early maincrop' period.

Claret

First hybrid-sprouting broccoli, bred by Elsoms. Very good quality and uniformity. Large vigorous plant producing heavy yields of quality spears.

Pozo

Good yielding Claret type. Late maturity harvesting 7 days after Claret. Winter hardy. Deep purple spears. Very useful to extend the season maturing 250 days after transplanting.

Bonarda

Late maturing with good deep purple spears. Strong yielding late variety.

White/gold

Burbank

Our first white/gold hybrid, producing a strong, vigorous plant with a high yield of succulent spears.

Green

Montebello

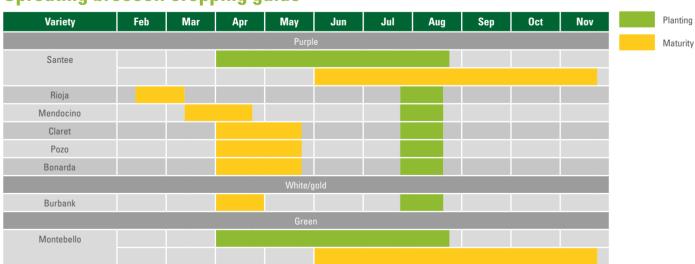
A new green sprouting broccoli variety with excellent uniformity that produces good quality spears.







Sprouting broccoli cropping guide



CARROTS

Elsoms market and distribute Bejo Zaden's market leading range of carrot varieties in the UK, working closely with them to develop these varieties.

All of our new carrot varieties are trialled and tested in UK conditions over a number of years to ensure we select the varieties most suited to your local circumstances and requirements.

Nantes

Nominator B 🖯

For very early production and suitable for the earliest sowings. Nominator produces attractive and cylindrical roots with approximately 96 days from sowing to maturity.

Norwich

Standard variety with upright foliage. It is very versatile and reliable with bulky, strong and attractive roots.

Standard variety with upright foliage. It is very versatile and reliable with bulky, strong and attractive roots.

Approximately 104 days from sowing to maturity.

Norfolk
Mid-season maturing variety with very vigorous, healthy and upright foliage. Norfolk produces very attractive, smooth, bright and cylindrical roots. Approximately 109 days from sowing to maturity. Commercially proven higher resistance to cavity spot.

Nazareth **GPS NEW**

Mid-season maturity producing outstanding, healthy and vigorous foliage. The roots are well buried in the soil, which allows potential tolerance to frost. Approximately 111 days from sowing to maturity.

Nairobi

The most versatile variety in our range, it can be used for the earliest polythene-covered sowings through to late for over wintered, straw-covered crops. Nairobi has high yield potential. Approximately 112 days from sowing to maturity.

Natuna

Smooth, bright coloured roots of exceptional quality.

Natuna is mid-season maturing with vigorous, healthy tops. Shows good strength against breaking and splitting. This variety should not be sown before 1st April.

Approximately 117 days from sowing to maturity

Miami

Versatile, consistent and reliable variety with vigorous, early growth. Miami has a very healthy, upright foliage with strong, high-quality and cylindrical roots. It is suitable for a long production period and has attractive roots with excellent flavour. Approximately 117 days from sowing to maturity.

Nipomo

Extremely healthy, vigorous and upright foliage. Nipomo performs best on peat/black soils and bodied sands. Approximately 127 days from sowing to maturity.

Nerac

A standard variety which is versatile and consistent.

Nerac performs best on peat/black soils and bodied sands. Approximately 130 days from sowing to maturity.

Other varieties in our range include Newcastle (3 S) and Napa (1 P)

The typical uses are shown next to each variety. However it is possible that some may be suitable for other uses too.

- Fresh Market
- S Field Storage

FBS

A B

- Processing
- **Ba** Baby
- B Bunching

FPS

Snack

Interesting new varieties coming through trialling all the time. Please contact us for further information.



Also available as Organic



Nantes cropping guide

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	0ct	Nov	Dec
	Harvesting		Possible	extension of h	narvest period	l by field (stra	w covered) st	orage			
	1	Jan Feb	Jan Feb Mar	Jan Feb Mar Apr	Jan Feb Mar Apr May	Jan Feb Mar Apr May Jun	Jan Feb Mar Apr May Jun Jul	Jan Feb Mar Apr May Jun Jul Aug	Jan Feb Mar Apr May Jun Jul Aug Sep	Jan Feb Mar Apr May Jun Jul Aug Sep Oct	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov





Coloured

White Satin

FS

A long, slender white root. Approximately 95 days from sowing to maturity.

Yellowstone

Long cylindrical root. Approximately 139 days from sowing to maturity.

Purple Haze

Produces purple carrots with an orange centre. Approximately 85 days from sowing to maturity.

Purple Sun

Conical Nantes with a very intense purple colour and a cream centre. Approximately 126 days from sowing to maturity.

Deep Purple

A purple flakkee with an intense colour. Approximately 135 days from sowing to maturity.

Rainbow

A range of attractive colours (not purple). Approximately 92 days from sowing to maturity.

- Fresh Market
- S Field Storage
- **Processing**
- Baby
- **B** Bunching
- Sn Snack

Processing (Berlicum/Flakkee)

Bangor

Early maturing Berlicum type which is very high yielding. Approximately 110 days from sowing to maturity.

New early maturing Berlicum type. Very healthy, vigorous foliage. High yield potential.

Bastia

Early maturing Flakkee type, suitable for early sowings. Bastia has an intense and consistent colour. Approximately 130 days from sowing to maturity.

Chantenay

Chantenay Red Cored

Widely used and standard open-pollinated stock. Recommended seed rate of 7.5-10million seeds per hectare; lower densities will produce larger roots. Approximately 96 days from sowing to maturity.

Cascade



A hybrid Chantenay variety, very suitable for production at high density sowing. Cascade produces healthy foliage and smooth, bright, and uniform roots. Approximately $100\,$ days from sowing to maturity.





Processing (Berlicum/Flakkee) cropping guide

Variety	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bangor												
Blanes												
Bastia												





Bunching carrots

Mokum



Napoli



Ibiza

Imperator



Early maturing, producing attractive, cylindrical roots. Relatively short, but healthy foliage. Attractive colour with a sweet flavour. Approximately 88 days from sowing to maturity.

Early maturing, versatile variety which can be sown from very early until late. Good root to top ratio. Approximately 90 days from sowing to maturity.

Imperator of high quality, producing long, slender cylindrical roots. Good flavour and colour. Approximately 118 days from sowing to maturity.

Bunching and Imperator cropping guide

Variety	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mokum												
Napoli												
Ibiza												
Sowing	Harvesting Possible extension of harvest period to field (straw covered) storage											





PARSNIPS

At Elsoms we breed our own high quality parsnip varieties, offering higher marketable yields, outstanding disease resistance and reliable field performance. We have made huge investments in our breeding programme and work closely with growers to ensure we continue to meet your needs.

Varieties

Pacific

An early maturing variety ideal for the earliest of parsnip sowings. Pacific is high yielding and quick to bulk. It produces well filled roots with an attractive white colour.

Palace

An extremely reliable, versatile and well established market leading variety, with proven canker resistance. Palace is suitable for a long production period, from early until main crop, is ideal for pre-pack and suitable for processing. It is high yielding with shallow crowns and has a good weight distribution down the root.

Picador

The most vigorous variety Elsoms has to offer, which responds well to a wide range of sowing densities and competes strongly against weeds. Picador produces excellent white roots with a good shape and has a very high yield potential. It handles well in the pack house and is suitable for processing purposes.

Panorama

Panorama is Elsoms' best-selling variety with increasing global popularity. It produces long, well-filled, smooth, white roots and has a good weight distribution throughout. A main crop maturing variety with vigorous top growth which competes very well against weeds. It is high yielding, has a high pack-out potential and has excellent all-round disease resistance.

Pearl

A main-crop to late season variety that is bred to deliver a higher yield per root and has a high percentage pack-out in pre-pack grades. With an outstanding white colour and attractive skin quality, Pearl is proving to be a very popular variety. It is extremely uniform with good root weight distribution and is well suited for high density production. Pearl is ideal for long-term field storage potential and has excellent canker resistance.

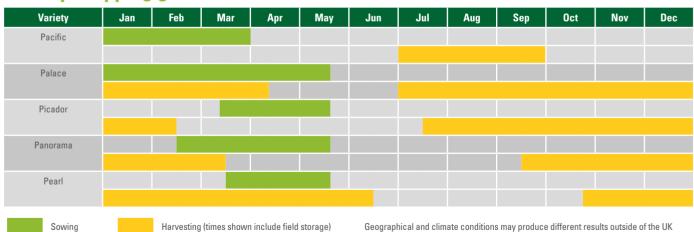
We have a hugely exciting new range of hybrid parsnips from our breeding programme, which have been trialled extensively in commercial fields and different production areas of the UK.

We expect to launch these commercially in the next 1 to 2 years.



Also available as Organic

Parsnip cropping guide



Parsnip variety information

	Approx. days to Harvest *	Leaf Vigour **	Root length *	Skin Quality*	Shape ***	Crown depth **	External colour **	Canker Resistance **	Field Storage Potential **
Pacific	130	7	5	5.5	Е	5	8.5	6	short
Palace	140	6	6.5	5.5	D	6.5	6.5	7	med - long
Picador	140	8	7.5	6.5	D/E	6.5	7.5	7.5	medium
Panorama	150	6	8	8	С	8	8	7.5	med - long
Pearl	150	5.5	5	7.5	С	8	7.5	7.5	long

 $^{^{\}ast}$ Days to harvest figures shown relate to optimum maturity and do not relate to possible extension of harvest period by storage.

^{***} Shape.



















^{**1} to 9 (1 = very low/poor 9 = very high/good).

HERBS

Elsoms is committed through breeding and research to improve the range and quality of herb species available to our customers.

Elsoms distribute a specialist range of herb species and varieties in the UK.

Basil

Red basil

Ramsey

Compact plants with dark red pointed leaves. Suited to pot cultivation.

Thai basil

A very good, sweet aromatic taste and pleasant, exotic fragrance.

Lemon basil

Lemon basil with fine leaves, combining both a lemon and basil flavour in one variety.

Sweet basil

Twenty

Genovese type which has been specifically bred for pot cultivation.

Boston

Dark green variety, compact for all year round cultivation.

Coriander

Filtro

Bred especially for leaf production. It is fast growing with broad deep green coloured leaves. Slow to bolt, and heavy yielding.

Commander

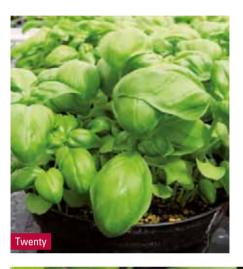
Filtro type with an excellent upright habit and an improved aroma.

Our seed is tested routinely for Pseudomonas syringae pv coriandricola. Hot water treatment is used when appropriate and is available on request.

Chives

Gedney

Suitable for protected and outdoor cultivation. Vigorous upright habit, medium thick, dark green leaves.





Also available as Organic





Parsley

Favorit

Very dark green variety with good stem length. Semi-curled leaves with long standing ability and heavy yields.

Moss curled, 2 Krausa

Densely curled and long-stemmed variety. Good rich, green colour. Holds very well without deterioration.

Moss curled, 2 Petra

Heavy yields of large densely curled leaves on long stems. Continues cropping over a long period and is dark green in colour.

Dill

Moulton

Dark blue/green leaf, the plant has a vigorous habit but is slow bolting.

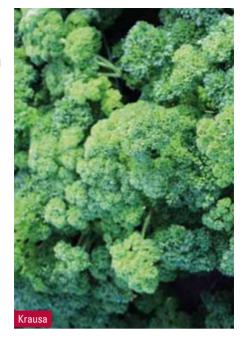
Turku

With medium vigour and yield, Turku has thick dark and dense leaves with a great dill flavour.

Helsinki

A very fast growing and high yielding variety with excellent vigour. With an open growth habit, Helsinki produces a thin but high density leaf. Not suitable for autumn sowing

New varieties of herbs will be available soon.







LEGUMES

Elsoms are the UK distributors for Holland Select, a family owned company which has specialised in breeding many legume crops for over 100 years, through three generations.

Broad bean

De Monica

De Monica is a new, early, high yielding variety bred by Holland Select. It is a long day variety specifically bred for the fresh market. A high proportion of the beans on each plant mature together, helping to reduce harvesting costs. Suitable for over wintering.

Duet

Processing types are available. Very uniform pods that are held 20-30cm.





Also available as Organic

Broad bean characteristics

Variety	Approx plant height (cm)	Approx plant height (cm)	Comments
De Monica	75	14	A new, very high yielding early maincrop variety
Witkiem Manita	75	15	Popular, good yielding early variety

Dwarf French bean

Faraday

Uniform and high yielding, slightly glossy with good vigour. Mid-high pod attachment giving straight, fine pods.

A high yielding variety with dark green, round glossy pods of medium length. Can be used for the fresh or processing market.

Modesto

Upright and compact plant habit with long straight pods.

Stanley

Medium long, green pods with good uniformity. High yielding with resistance to halo blight and anthracnose.

A high yielding variety with dark green pods. Domino can be sown later due to extra planting vigour.

Climbing bean

Round podded, black seeded variety bred by Holland Select. Pods are approximately 7-9mm in diameter and 20cm long. It is early maturing and suited to both indoor and outdoor production. Cobra has a good taste and very good shelf life.

Limka

Smooth pods and brilliant green colour.



Dwarf French bean characteristics

Variety	Pod diameter (mm)					Pod chara	acteristics		Comments
	6.5-8 8-9 9-10.5 >		>10.5	Length (cm)	Colour	Maturity Plant height (cm)			
Faraday	70%	30%	0%	0%	13-14	8	2	50	Uniform
Parker	0%	40%	60%	0%	14-15	8	0/+2	55	Long straight pods
Stanley	0%	0%	80%	20%	12-13	7	0/+2	50	High yielding

Variety information supplied by Holland Select from their trials in The Netherlands.

Colour score 1 = pale green, 9 = dark green.

Runner bean



Very long, slender pods of excellent quality and scarlet flowers.

White Swan

Refined White Emergo type, with very early vigour, producing heavy yields of quality pods.

Uniform pods with a smooth skin finish.

Runner bean characteristics

Variety	Approx pod length (cm)	Flower	Seed	Stringless	Comments
Enorma	30-32	Red	Purple	-	Excellent quality, long, straight, narrow pods
White Swan	27-28	White	White	-	Has better heat tolerance than White Emergo and retains flowers better
HS 787	25-28	Red	Black/ Red	-	Less blush with a smooth skin finish





Mange tout pea

Bred by Elsoms, Shiraz is a purple podded snow pea type. Shiraz produces beautiful flat, purple pods with very slow seed development.

Delikett

Delikett is very high yielding with green pods. Pods are 8-9cm long and 12-14cm in width.



SALADS AND DIVERSE

Elsoms continues to expand in salads and diverse crops. Bejo are world leaders in a number of salad crops.

The expert breeding and selection team is dedicated to a range of species, particularly celery, fennel and radish. Salad and diverse crops feature in our trials and visitors are welcome.

Salad onions

Starlight

An upright and very vigorous Cepa type. Well suited for overwintering, Starlight has a distinctive upright dark green leaf and better winter hardiness than the Lisbon types. Can be sown in spring to produce 'The BBQ Three' in a bunch bulbed product.

Parade

Very attractive salad onion, which does not bulb. Leaves are strong, upright with good resistance to mildew

Performer

Very attractive salad onion, which does not bulb with a darker green leaf than Parade. Strong, upright leaves with a good resistance to mildew.

Park

Upright smooth foliage, slight bulb and easy to peel. Bellsfield bunching type.

Celery

Tango

Highly productive mid-green variety with long and very smooth petioles. Can be used in spring, summer and autumn. Good resistance against black heart.

Plato

Tall habit with long, very straight petioles. Uniform cross section and small spoons. Field standing is good with excellent taste. Suitable for spring, summer and autumn production.

Jive

A bolt tolerant variety which is suitable for spring, summer and autumn cropping. Tall smooth apple green petioles with small spoons. Has a juicy crunchy texture without string. A very versatile variety suitable for market, sticks or hearts production.

Lambada

A main crop apple green variety, ideal for sticks and high quality hearts due to its very uniform long petioles and small spoons.





Also available as Organic







Celeriac

Brilliant

Early variety with very smooth, round roots and excellent fl esh without discolouration. Can be stored over a long period, is recommended for processing, and has a dark green leaf.

Rowena

Excellent main crop variety with good bolting tolerance. Smooth, round roots with strong foliage. Used for industry, fresh market and storage. Dark green leaf.

Vara

Excellent main crop variety with good bolting tolerance and strong foliage with dark green leaves. With smooth, round roots it is suitable for industry, fresh market and storage.

Courgette

Ladoga F1

High yielding variety with medium green, long cylindrical fruits.

Sanabria F1

An early variety with an open habit, producing medium green, long cylindrical fruits.





Florence Fennel

Dragon

Early variety suited to summer cropping.

A fast growing, early variety. Ideally suited for spring and early summer. Maturity approximately 73 days after transplanting.

Rondo

This is an early variety suited to summer cropping. Bulbs are round with maturity approximately 75 days after transplanting.

Antares

Suited to summer production and follows on nicely from Solaris in a continuity programme. Maturity approximately 72 days after transplanting.

Orion

Best suited for Autumn production with round bulbs, white and firm, giving high yields. Maturity approximately 75 days after transplanting.

Radish

Round, red and suitable for outdoor production. Short tops producing high yields.

A very uniform, round red radish. Consistently high yielding with neat leaf and root attachment. Good internal structure and resistant to cracking.

Rosetta

Is a medium top variety with upright foliage producing brilliant round red bulbs of 2.5 – 3.5cm in diameter. It has a good internal structure and is good against splitting.

Rambla

A short top early maturing variety producing shiny red round bulbs with medium thickness skins. Suitable for both loose and bunched product.

Ranger

An indoor short top variety with good early vigour producing attractive, bright red round bulbs. Good Fusarium tolerance.

LETTUCE

Elsoms are pleased to offer a wide range of lettuce varieties from Bejo. Bejo have made significant investments to expand their lettuce portfolio, allowing us to provide you with the best varieties.

Lettuce

Iceberg

Times

A compact habit with a neat wrapped leaf which is suitable for the fresh market and processing during the summer. BL 16-35

Rumours

A compact habit with good vigour producing well filled heads for fresh market and processing. BL 16-35

Business

A faster maturing variety with well filled compact heads for fresh and processing markets. BL 16-19, 21-29, 32-35

Topacio

Suitable for processing, excellent internal structure and short core. BL 16-35

Olevine

Ideally suited for summer production, uniformed with short core and excellent internal structure. BL 16-35

Butterhead

Malis

A large framed variety of outdoor Butterhead lettuce. A medium green leaf that is thick and crisp, giving a sturdy head that holds wells. BL 16-35

Antedis

Larger framed Butterhead, suitable for processing after hitting full maturity. Could be used for fresh market if taken early. BL 16-35

Speciality Lettuce

Green Batavia

Claribel

Compact green Batavia with a frilly leaf. A crunchy and nutty flavoured leaf that grow upright and maintains its crispness from harvest to plate. BL 16-35

Lilybe

This Batavia variety has a well filled head with refined, curled leaves. Short core and good tolerance to breakdown. A crisp leaf similar to Romaine, retains its crispness even in hot growing conditions. It's one of the favourites in France. BL 16-35

Marisahel

More vigorous green Batavia, filled head with refined, curled leaf. Short cored and good tolerance to breakdown. Full summer variety for hot conditions. BL 16-35

Other Green Batavia varieties include Semental (organic).

Oak leaf

Oakland

A triple red oak leaf lettuce that is mild in flavour. An overall good and full summer variety. BL 16-35 $\,$

Pleasance

A green oak leaf lettuce with a mild flavour. A full summer variety. BL 16-35

Lollo Biondi

Elle

Mid to dark green open heads with very fine curled leaves. A leaf type that will suit both processing and fresh market. A high quality product with mild and crispy texture. BL 16-35

Also available as Organic



Lollo Rossa

Solos

An upright habit with open, dark red heads. Easy to harvest with good resistance to Tipburn. BL 16-35

Civic

Double red Lollo Rossa with a fine curled leaf. A leaf type that will suit both processing and fresh market. BL 16-35

Chinese cabbage

Pacifiko

A bright green foliage. Attractive slender heads with a compact, contrasting yellow heart.

Bilko

Good green colour and compact head, with excellent head weights and holding after harvesting.

Other Chinese cabbage varieties include Kaboko (organic only).

Cropping guide*

Variety	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
									<u> </u>			
All Varieties												
Planting	Sowir	าต										

^{*}This is a rough guide and individual varieties may vary. For specific variety information please get in touch.

Key to lettuce resistances

BL Bremia Lactucae or mildew

Baby leaf

Red Batavia

Figueroa

A dark red fading to mid-green leaf with typical Batavia characteristics with wavy margin on the edge of the

Isabelita

Very uniform cherry red Batavia lettuce, teardrop shaped leaf with a wavy margin. BL 16-35

Green Batavia

Greenbel

Dark green Batavia leaf with a curly top to the leaf. Very uniform and excellent vigour and thickness to the leaf. BL 16-35

Red Oakleaf

Sweet Flame

Carmelita

An easy to cut, vigorous, upright variety with excellent ruby red leaf colour with shallow lobes down the leaf.



Green Oakleaf

Odette

Medium green in colour with 3D leaf shape. BL 16-35

Green Tango

Telescope

A light to brilliant green leaf with a delicate frilly leaf texture that grow with a semi-erect habit. BL 16-35

More varieties in our lettuce portfolio are available. Please get in touch for more information.

Baby leaf cropping guide

	_	Mar	Apr	May	Jun	Jul	Aug	Sep	0ct	Nov	Dec
All Varieties											
Drilling Harv	esting										



Spinach

Renegade

Dark green variety used in industry or fresh market. Good rounded, smooth leaves with an upright growing habit. BL 1-7, 11,13 15.

Responder

A savoy leaved variety with an upright growing habit and round, dark green leaves. It is ideal for spring and autumn production and is suitable for use in industry or fresh market. BL 1-12, 14-16.

Dark green, rounded savoy leaves with an upright growing habit that is suitable for industry or fresh market. Ideal for spring and autumn production. BL 1-15, 17.

New varieties of baby spinach coming soon for trialling.

Rocket

Sweet Flame

An Elsoms variety with a rounded, dark green leaf and strong, peppery flavour. Tolerant to cooler growing conditions with a much longer UK harvest season and longer shelf life.

Sweet Intensity

An Elsoms variety with a thick, dark green, serrated shape leaf and sweet, mild flavour. Tolerant to cooler growing conditions with a much longer UK harvest season and longer shelf life.

New varieties of wild rocket coming soon.

Chard

Rhubard chard leaf with a deep intense red veining. Good upright habit and uniformity.

Bulls blood beet leaf with deep crimson coloured leaves with a sweet taste.

Silverstar

Chard leaf with white veining, good upright habit and uniformity.

Radicchio

Botticelli

A specialist early variety, suitable for early production only. (Needs special attention to husbandry).

Leonardo

The most versatile variety in the market. A consistent performer from spring to early autumn, producing good yields.

Vivaldi

Late summer to early autumn maturing variety, producing good yields.

Raffaello

Maturing between Rossini and Corelli, offering improved quality in the transition from summer to autumn production.

Corelli

A true autumn / winter habit. The extra frame allows late production with frost protection.

Canaletto

Maturing between Corelli and Rubro to strengthen the autumn and early winter production.

Rubro

The lastest maturing variety in the Bejo range with excellent winter hardiness, enabling production into the New Year.

Galileo

This variety is very uniform cream colour with red spots, prized in Italina and European cuisine and it ideally for late summer production in UK.

Bramante

Treviso type of radicchio.

Endives

Benthos

Medium curly endive with good bolt tolerance and resisitance against tipburn.

Campillos

Medium to course curly leaf endive.

Olmos

Esacrole type, upright growing with good bolt tolerance.

Radicchio harvest programme



Cropping period for Rossini and Rubro is dependant on weather conditions during autumn and early winter. Both Rossini and Leonardo can be stored for short periods. Please contact us for further details about our Radicchio programme. Leonardo may show more green outer leaf during the Summer period.





ASPARAGUS

The Bejo asparagus programme includes some new and exciting hybrids with excellent taste quality and yield.

We have a number of trials in the UK, drawing on material from Bejo Zaden's major asparagus breeding programme, and all the below varieties are 100% male. We can offer seed or supply crown raiser contacts if required.

Asparagus

Erasmus

The world's first 100% purple male asparagus variety. Erasmus is a very vigorous, early variety that is strong against snapping if lodging occurs. It has excellent quality, uniform, thick spears with good tip closure and intense purple colour.

Prius

Prius is the earliest variety on the market. It is very uniform and is high yielding, producing nice tight heads and is strong against physiological rust.

An early variety that has been specially bred for green production. Canticus is high yielding with spears that are uniform and have great tip closure.

An early maturing variety that is also well suited for white production. Cumulus has excellent quality spears that are uniform, thick and with good tip closure, and also produces vigorous foliage. It is strong against hollow spears and physiological rust.

Bacchus is an 100% male early variety that is anthocyanin-free. Produces high yields with excellent, uniform stem quality and good tip closure.

A mid-late variety that is also suitable for white production. Finalus has excellent quality, smooth spears with good tip closure and is strong against physiological rust.

A late variety, Spartacus produces uniform spears with good tip closure and is strong against foliar diseases.







Agricultural Division

With an impressive range of Cereals and Oilseed varieties included in the latest AHDB booklet, Elsoms Seeds is able to provide UK growers with an exciting range of new varieties.

Who we are

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Portfolio

- Winter and Spring Wheat
- Winter and Spring Barley
- Hybrid Wheat
- + Hybrid & Conventional Rye
- Winter and Spring Triticale
- Spring Oats
- Durum and Spelt Wheat
- Fodder Beet
- Maize
- Vining Peas
- Catch and Cover Crops
- Oilseed Rape
- Linseed



Catch and Cover Crops





SAATEN UNION are the market leaders in Europe for catch and cover crops and a leading specialist in biological control of nematodes and soil borne diseases. Since 2013 Elsoms have been working closely with SAATEN UNION to make their wealth of specialist varieties and information available to UK farmers and growers.

High Powered Soil Improvers

Oil radish and black oat

— Viterra INTENSIV mix





Excellent drainage

Benefits of catch and cover cropping

Soil nutrients

- Improve the content and management of nutrients
- Nutrient levels can be increased and released for the next crop

Soil structure

- Vigorous, extensive and deep rooting habits improve the structure and quality of the soil
- Reduce compaction and allow freer movement of water and air through the soil

Soil health

- Reduce pests and diseases such as Rhizoctonia, beet cyst nematode, root lesion nematode etc.
- Prevent the build-up of diseases such as Take All and Club Root

Water management

- Reduce soil moisture loss
- Water holding capacity can be considerably improved as a result of an increase in humus content that will improve the rate at which soil drains

Reduced risk of soil erosion

 Strong root structure and good ground cover can significantly reduce the risk of soil erosion

Weed control

- Suppress weeds and volunteers by smothering them with their dense canopies and vigorous growth
- Companion cropping can reduce the requirement for herbicides

Bees and insects

Plentiful source of late fodder for bees and other beneficial insects

Biomass

- Provide an increase of organic matter to the soil
- Potential for biomass to be used as a feed for livestock and anaerobic digesters

Greening

- Help a grower comply with their EFA requirements
- Please check cropping with your agronomist

Catch and Cover Crops Decision Tree

Primary reason for growing catch and cover crops	Type of Crop	Variety / Mix	Seed Rate	Approx. Price Range
lmayous soil booleb	Multi resistant Oil Radish	CONTRA	25kg/ha	££
Improve soil health Combat soil born pests and diseases	Black Oat	PRATEX	100-125kg/ha	£££
	Black Oat / Oil Radish	INTENSIV	50kg/ha	fff
	Classic Oil Radish	AKIRO	18-25kg/ha	£
Improve soil structure	Multi resistant Oil Radish	CONTRA	18-25kg/ha	££
	Black Oat / Oil Radish	INTENSIV	25-50kg/ha	££-£££
	Classic Mustard	ALBATROS	15-25kg/ha	£
	Phacelia	ANGELIA	10-12kg/ha	££
	Black Oat	PRATEX	50-125kg/ha	££-£££
Rapidly establish ground cover	Forage Rye	GENERATOR	125-180kg/ha	ff-fff
Suppress weeds Reduce soil erosion	Black Oat / Phacelia / Clover	UNIVERSAL	25kg/ha	££
	Black Oat / Oil Radish	INTENSIV	25-50kg/ha	££-£££
	Winter Rye / Vetch	WICKROGGEN	50-100kg/ha	££-£££
	Classic Oil Radish	AKIRO	18-25kg/ha	£
High biomass	Forage Rye	GENERATOR	125-180kg/ha	££-£££
production (Animal feed or	Black Oat	PRATEX	50-125kg/ha	££-£££
energy production)	Winter Rye / Vetch	WICKROGGEN	50-100kg/ha	111-111

Description	Notes
BCN Level 1 reduction and very effective against a wide range of pests and diseases – excellent effect on soil structure – will benefit a wide range of high value crops.	Long thin fibrous root structure delivers consistent high performance and is easily broken down — ideally needs 8 weeks to be fully effective — may survive winter — consider suitability if OSR in rotation.
Impressive effect on free living nematodes — very popular with carrot and potato growers — rapidly establishing — high biomass yields — ideal mulch crop.	Very frost susceptible — ideal mulch crop — a cereal so greater flexibility in rotation.
Ideal for intensive root crop rotations – proven and popular mixture in sugar beet and potato rotations.	Full seed rate needed if primary aim is to improve soil health.
Weed suppressing – deep rooted – great ground cover.	Will regrow if topped to 10-15cm — could use lower seed rate of 18kg/ha to reduce costs depending on circumstances.
As above but benefits on soil health of multi resistant oil radish.	Expensive if multi resistance not needed — slower flowering than Akiro so can be left for longer — could use lower seed rate of 18kg as with Akiro if not targeting soil health.
As above with added benefit of black oats.	Black oats provide excellent mulch crop potential — could use half seed rate if not targeting soil health.
Weed suppressing – impressive ground cover – cost effective.	Care required to not prejudice following crops in the rotation — crop has shortest life before requiring removal of those in the portfolio.
Weed suppressing – impressive ground cover – thinner stemmed variety to improve speed of breakdown.	Ideal for OSR and brassica rotations - excellent for promoting beneficial insects.
Seed rate can be varied depending on circumstances. Rapidly establishing fast growing cereal with added soil health benefits.	Very susceptible to frost – ideal mulch crop – ideal for OSR rotations .
Winter hardy variety. Very rapidly establishing and fast growing crop producing a tall crop with an excellent biomass yield.	Primary use is for high biomass production.
Combines the impressive ground cover of phacelia with the rapid establishment and high biomass of black oats with the soil fertility improvement qualities of clover.	An excellent mixture – simple and effective – ideal for OSR rotations .
Ideal for intensive root crop rotations — proven and popular mixture in sugar beet and potato rotations.	Black oats provide excellent mulch crop potential — could use half seed rate if not targeting soil health.
Winter hardy whole crop mixture with added solid fertility benefits of vetch.	Ideal for autumn/ winter ground cover to be incorporated in early spring — alternatively grow through to full whole crop harvest in early summer.
Weed suppressing – deep rooted – great ground cover.	Simple and effective — ideal for following maize .
Very rapidly establishing and fast growing crop producing a tall crop with an excellent biomass yield.	Winter hardy variety — harvest early summer.
Seed rate can be varied depending on circumstances. Rapidly establishing fast growing cereal with added soil health benefits.	Can be planted late summer / early autumn and used as a mulch crop in rotations.
Winter hardy whole crop mixture with added solid fertility benefits of vetch.	Ideal for autumn/ winter ground cover to be incorporated in early spring — alternatively grow through to full whole crop harvest in early summer.

Product Specification

Vegetable growing has become a highly specialised and intensive activity. As a result of the ever increasing demand for better quality, vegetable growers and plant raisers require an improved quality of the basic material.

The demand for specific seed forms and more information about seed quality has strongly increased to better influence emergence and required number of plants.

Seed is a natural product. The often varying environmental conditions thus influence final results. It is therefore often not possible to give detailed information about emergence and other physical seed characteristics. To meet the wishes of clients as much as possible, Elsoms has made up quality standards for the various seed categories.

The germination percentages mentioned are Elsoms minimum required figures and made according to ISTA methods and tolerances. Please see the table on the next page for our seed quality specifications.

ESA Product specifications

These product specifications for germination of precision seeds, varietal purity of precision seeds and seed health requirements are based upon ESA recommended standards.

These product specifications are not meant to be absolute minimum standards for delivery. If the quality tests of Elsoms indicate a lower quality level than given in these specifications, Elsoms will inform prospective seed users. This communication is aimed at informing professional seed users about the quality they can expect, so they can make their own assessment and decide if these seeds meet their requirements.



General definitions

Germination

Germination tests relate to ISTA procedures and are valid at the time of dispatch. We test seed before and after treatment and germination checks are carried out according to ISTA test methods and guidelines by our qualified analysts.

Normal seed

In general, normal seed has not been subjected to special processes. It is sold by weight and/ or by count depending on the product. Normal seed complies with EC Standards.

Precision seed

Precision seed has been subjected to additional processes. It has a uniform size and high germination. Precision seed is sold by count.

Reaction of plants to pests or pathogens

According to: International Seed Federation (ISF), Section Vegetables. (Adopted 28.05.04 Berlin)

A Immunity

Not subject to attack or infection by a specified pest or pathogen.

B Resistance

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 resistant plant 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. (These standard abbreviations HR (high/standard resistance) and IR (moderate/intermediate resistance) are used throughout the text).

C Susceptibility

The inability of a plant variety to restrict the growth and development of a specified pest or pathogen.

Seed quality specifications

Стор	Product	Grade	Usual seed size (mm)	TSW* (grams)	Min. germination of precision seed
Asparagus	Seed		2.5-4.25	20	85%
Broad bean	Seed			1100-1600	85%
Climbing bean	Seed			250-300	95%
Dwarf French bean	Seed			250-300	85%
Runner bean	Seed		10-25	1000	
Beetroot	Graded		3.0-3.5	10	80%
			3.5-4.0	14.5	80%
			4.0-4.5	20	80%
Borecole, cabbage	Normal Seed (where available)	To 0.5mm	1.25-2.5	3.5	
Brussels sprouts, cauliflower, sprouting broccoli	Precision	To 0.2/0.25mm	2.0-2.25	5.2	90%
Carrot	Film coat	To 0.2mm	<1.6	1.17	85%
			1.6-1.8	1.42	85%
			>1.8	1.82	85%
	Splitkote®	To 0.5mm			
Celery	Precision			0.4	90% including pellets
Florence fennel	Precision	To 0.2/0.25mm		4	90% – pellets
Leek – Hybrid varieties	Film coat	To 0.25mm			90%
	Pills	To 0.75mm	2.75-3.25	35	90%
Leek – 0.P varieties	Film coat	To 0.25mm			85%
	Pills	To 0.75mm	2.75-3.25	35	85%
Lettuce	Pills	To 0.5mm	3.0-3.5	40	95%
Marrow / Courgette	Seed			145	
Onion (salad)	Film coat	1.75-2.25mm	2.25-2.75	4	90%
	OnX®			8.3	90%
Onion (bulb)	Film coat		2.0-2.75	4	90%
	Splitkote® Light	To 0.75mm	2.75-3.5	25	
Parsley	Seed	To 0.2/0.25mm			87%
Parsnip	Film coat	To 0.25mm	4.25-4.50	4.8	
·			4.50-4.75	5.3	
			4.75-5.00	5.9	
	Topkote [®]			18.5	
Pea	Seed		6-9	285	85%-88%
Radish	Film coat	To 0.5mm		1	92%
Radicchio	Normal Seed			1.75	88%
	Pills			35	88%
Spinach	Film coat			12	85%
Swede	Film coat	To 0.2/0.25mm	1.50-2.50	3.3	
Sugar pea	Seed	10 0.2, 0.2011111	1.00 2.00	285	

Key ® registered trademark of INCOTEC International B.V. *Average TSW (thousand seed weight) may vary between lots.



Production Guide

Crop	Product season	Normal sowing time	Normal cropping time	Market	Standard row width (inches)	Direct drilling seed spacing (inches)	Approx no. seeds drilled/acre	Standard row width (inches)	Plant spacing within row (inches)	Plant population / acre
Asparagus	Spring to early Summer modules / blocks	Feb	Apr to 20th Jun, 2 years from planting	Fresh/Pre pack				54	12	10,000
Broad bean	0/E	Nov to Dec	May to Jun	Fresh	18	6	58,000			
	Early	Mid Feb	Jun							
	Maincrop	Apr	Jul							
Climbing flat and climbing French bean	Early Glasshouse Crop	Mid Jan (South) to Mid Feb (North)	Jun to Jul	Fresh	48	15 2 seeds per station	17,500	48	15 2 Seeds per station	17,500
Beet	Early Glasshouse	Jan	May	Fresh Bunching	15	1.5	280,000			
	Outdoor (poly cover)	Mid Mar	Jun	Fresh Bunching	15	1.5	280,000			
	Outdoor (uncovered)	End Mar	End Jun	Fresh/Early Pickling	15	1.25	340,000			
	Maincrop	Apr to Jul	Jul to Oct	Pickling/Fresh	15 twinline (16 seeds/ft run)	1.5	550,000			
Beet, leaf	Summer/ Autumn	Mar to Jun	Jul to Nov	Fresh	18	4	87,120			
Borecole	Summer/ Autumn	Modules Apr to Jul**	Jul to Feb	Fresh/Pre pack						13,000
Brussels	Early	Feb	Aug to Sept	Fresh				24	15	12,500
sprout	Maincrop	Mar	Oct to Mar	Fresh				24	15	12,500
Chinese	Early	Mar to Apr	Jun to Jul	Fresh				15	15	28,000
cabbage	Maincrop	Early May End Jul	Jul to Nov	Fresh				15	15	28,000
Pointed cabbage		Feb to Jul	May to Nov	Fresh				18	12	24,000
Cabbage	Summer/ Autumn	Early Feb to Mid May	Early Jun to mid Oct	Fresh				16-20	16-20	24,600-15,000
White cabbage	Transplanted**	Early Mar to early May	End Sept to Nov	Process				20		10,000
Industrial cabbage	Transplanted**	Mid Feb to Mid Apr	End Jul to Nov	Process				24- 28	24- 28	11,500- 8,000
Red cabbage	Transplanted**	Early Mar to Mid Apr	Aug to Nov	Fresh/ Process				20 20	16 20	20,000 15,600
Spring cabbage	Hearted	Aug	Mar to May	Pre pack/ Fresh	15-18	5-10	80,000- 35,500	15-18	10 10	43,000 35,000
	Greens Aut/Win/Spr	Jul/Aug	Oct to Apr	Pre pack/ Fresh	12-18	5	100,000- 70,000	12-18	10 10	60,000 35,000
Savoy cabbage	Transplanted** E/M	Early Mar	Jul to Oct	Fresh				20	16	18,000
	Late	Early May	Oct to Mar	Fresh				20	20	15,600
Broccoli	М	February to Mid Jul	Jul to Nov	Fresh Floretting				24	16	16,000
Carrot	Early	End Oct to Jan (poly)	Early to mid Jun	Bunching/ Fresh	18	1.25- 0.9	400,000- 550,000			
	2nd E	Early Feb under poly	Mid Jun to late Jul	Fresh	18	0.8	500,000- 650,000			
	Maincrop	Apr to Mid Jun	Aug onwards	Fresh	18	0.5- 0.4	600,000- 850,000			
	Chantenay	Mid Feb to end Jun	Jul onwards	Fresh	9 rows in 10" bands. 3 triple rows in tandem		4,000,000			

Crop	Product season	Normal sowing time	Normal cropping time	Market	Standard row width (inches)	Direct drilling seed spacing (inches)	Approx no. seeds drilled/acre	Standard row width (inches)	Plant spacing within row (inches)	Plant population / acre
Cauliflower	Transplant**	Mid Oct	Late May					24	18	13,500
	Early Summer	Mid Jan – Early Feb	Late Jun					20	20	13,500
	Summer/ Autumn	Mid Feb to Jun	Jul to Nov					24	16	13,500
	Winter	May-Early Jun	Dec to Jun	Fresh				24-30	20-28	13,000-7,500
Celeriac	Transplant** Maincrop	Mar	Oct/Nov	Fresh/ Processing				15	18	19,800-27,000
Celery	Early Transplant** Maincrop	HG Dec Early May	End May Jul to Dec	Fresh Fresh				10 15	10 12	60,000 35,000
Courgette	Indoor E	HG Mar	Mid/end May	Fresh				48	30	4,350
	Outdoor E Protected	End Apr	Early to Mid Jun	Fresh	2 seeds per station	30	11,500*	36	30	5,750
	Maincrop	Mid May to End Jun	Jun to Sept	Fresh			11,500*	36	30	5,750
Fennel, Florence	Summer and Autumn	Apr to Jul	Jun to Oct	Fresh	18	4*	37,000	18	12	29,000-31,000
Kohl rabi	Maincrop	Early Feb Mid Jul	Late May Mid Oct	Fresh	15	4	100,000	Transplant**15	9	44.7
Leek	Maincrop	Mar to May	Sept to Mar	Pre pack/ Fresh	18 18	1.5 2.5	230,000 140,000	18 18	3 6	115,000 58,000
Lettuce Indoor	Short Day	20 Aug to 1 Jan	End Oct/ End Apr	Fresh				8	9	85,000
	Long Day	1 Jan to 20 Aug	End Apr/ End Oct	Fresh				8	8	95,000
Lettuce Outdoor	Drilled Spring to Autumn	End Mar/ Mid Jul	End Jun/ End Oct	Fresh	12	6	85,000	12	12	42,500
	Transplanted** under polythene	End Dec	Early May	Fresh				12	12	42,500
	Outdoor	End Mar to Mid Aug	Mid Jun to End Oct	Fresh				12	12	42,500
Marrow	E Indoor	Feb to Mar	Early Jun	Fresh						
	E Protected M	Details as for C	ourgettes							
Bulb onion	Maincrop	to Mar	Late Aug/Sept		9 to 14		250,000— 220,000			200,000- 170,000
	Overwintered	Mid Aug	Jun/Jul		9 to 14		290,000— 250,000			
Bulb onion		Oct	Jul		18		165,000			
sets		Jan to Mar	Aug to Sept				4.007.77			4.40
Salad onion	Spring	Feb to Jun	Jun to Nov		14.4	38 seeds/ft	1,380,000			1,100,000
	Overwintered	Jul to Sept	Dec to Apr		14.4	40 seeds/ft	1,450,000			1,180,000
Shallots	Japanese	Direct Drill Feb	End Jul to End Aug		14.4	40 seeds/ft 25 seeds/ft	1,450,000			1,180,000
Parsley	E/M/L	to Apr Feb to Jul	Jun until frost	Fresh/ Processing	18	1	350,000	18	6	350,000- 580,000
Parsnip	Summer/ Winter	Jan to May	Jul to Apr	Fresh 18" twin		3.25/4.0	under poly 150-180,000			
				Pre pack 18" twin		3.25/4.0	open ground 170-220,000			
Pea	VE	Nov to Feb	Early May	Fresh	8	2	392,000			
	Е	Feb to Mar	Jun	Fresh	8	1.5	522,000			

Сгор	Product season	Normal sowing time	Normal cropping time	Market	Standard row width (inches)	Direct drilling seed spacing (inches)	Approx no. seeds drilled/acre	Standard row width (inches)	Plant spacing within row (inches)	Plant population /acre
Sugar pea	Summer	Mar to Jun	May to Sept	Fresh	8	1.5	522,000			
Radicchio	Spring/ Summer	Mar to Jul	Jun to Feb	Fresh/ Processing				12	12	43,560
	Autumn									
	Transplant**									
Radish	Outdoor spring to sutumn	Feb to Sept	Apr to Nov	Fresh	8	2	392,000			
	Indoor all year round			Fresh	4	1.5	1,045,000			
Spinach	Spring/ Summer/ Autumn	Early Mar to Aug	Mid May to End Nov		12	1	522,720			
	Early spring (over wintering crop)	Sept to Oct	Apr to May	Fresh	12	3	130,680			
Sprouting broccoli	Maincrop	Late Jan to Late Jun	Feb to Nov	Fresh				24	18	14,500
Swede		Apr to Jun	Jul to Mar	Fresh	18	6	60,000			

Useful formulae & key

This guide has been compiled to provide growers with a basis for formulating their own production programmes. All growing seasons are considerably affected by light, temperature, rainfall etc. and all information given here is for guidance only.

All areas and drilling/planting distances are in imperial units - for conversion see table. For module raised crops the quantity of seed required is the number of plants per acre multiplied by 100 and divided by the laboratory germination. Then add 5% for plant raising losses.

Acres x 0.4047 = Hectares

Hectares x 2.471 = Acres

Square feet x 0.0929 = Square metres

Square centimetres x 0.155 = Square inches

Square inches x 6.452 = Square centimetres

Centimetres x 0.3937 = Inches

Inches x 2.54 = Centimetres

Chop out to correct plant spacing

Propagated under glass and transplanted

CG Glasshouse grown, without heat

Overwintered

Early

HO For more detailed

information, please

contact Head Office

Vegetable Seed

Specialists.

or your local Regional

HG Glasshouse grown, heat assisted

M Maincrop

VE Very Early

Any questions?

01775 715000

seed@elsoms.com

Terms and Conditions

Definitions

In these Terms.

"Buyer" means the person who accepts Elsoms quotation for the sale of goods or whose order for goods is accepted by Elsoms.

"Contract" means the contract for the sale and purchase of goods.

"Elsoms" means Elsoms Seeds Ltd of Pinchbeck Road Spalding Lincolnshire PE11 1QG.

"Terms" means the standard terms and conditions of sale as set out in this document and (unless the context otherwise requires) includes any special terms agreed in writing between the Buyer and Elsoms.

Jurisdiction

Unless otherwise specifically agreed in writing English law shall govern the construction of the Terms and any dispute which may arise in relation to them.

Prices

These prices have been based on the latest costs at time of going to press and offers are subject to out-turn of our or our suppliers crops and/or being unsold and without engagements. Prices are for net weights, bags free and non-returnable unless otherwise stated. All prices quoted by letter or verbally by Head Office personnel or our authorised representatives are subject to alteration without notice. We also reserve the right to alter prices by reason of the imposition of or alteration of any tax, duty, levy or other statutory or E.U. charge at the point of application in accordance with the regulations relating to the aforementioned charges.

Fluctuations in the £

If the goods which are the subject matter of this offer are of foreign origin we reserve the right to adjust the price payable by you so as to reflect any alteration in the value of the £ sterling in terms of currency of the country of origin of the goods between the date of sale and the date of invoice.

Carriage

The prices are, unless otherwise stated, inclusive of packing and delivery, carriage paid home in England, Scotland, Wales or f.o.b. English ports. Special delivery e.g. 1st CLASS POST etc. will be charged to the Buyer.

Substitutions

If we are unable to supply the variety or treatment ordered we will usually send the nearest available, unless instructed to the contrary.

Our information

All information whether contained in our literature or given by our staff is for general guidance only. Variation in local or climatic conditions can render such information inaccurate. Buyers are therefore advised that any such information given to them does not constitute a representation by us as to these matters and should not be relied on as such. Buyers should satisfy themselves that any seeds which they order are of a variety and performance satisfactory for their requirements and order such seeds at their own risk.

Seed quality

Seeds sold by us are guaranteed to comply at the time of delivery with the UK Seeds Regulations currently in force. All germination figures quoted are laboratory tests as defined by the OSTS and/ or E.U. Regulations and are not the figures that can be expected to grow in the field. If certificates of conformity are required, please request these at time of ordering.

Intellectual property rights/reproduction of seed

All intellectual property rights are reserved. With the exception of our multiplication grades of seed which are sold for reproduction, all other seeds are offered and sold for the production of consumer crops only and not for reproduction of seed. Unauthorised reproduction and/or exploitation is forbidden. Violation of our or our suppliers' intellectual property rights may constitute a serious offence (for further info see www. aib-seeds.com).

Latent defect

Disease of plants can be transmitted by the wind, by insect, by animals or by human agencies and may be seed borne or soil borne. We believe the seed hereby sold to be free from latent defect, but it is not a condition of sale nor do we warrant that any seed sold by us shall be free from such defect and we will not be responsible in any way for the resultant crop.

Buyer specified untreated seed

If a Buyer specifically requests that seed should not have a chemical treatment where this is normally offered or advised in our Catalogue or Guide then we accept no liability for any damage, direct or consequential, which may result therefrom.

Seed treatment at Buyer's request

Where at the Buyer's request any treatment whether chemical or otherwise is applied to the seed, Elsoms accepts no responsibility for the effectiveness of such treatment or any damage direct or consequential which may result therefrom.

Buyers may request that seed is treated in accordance with a specific off-label approval (SOLA) or Extension of Authorisation for Minor Use (EAMU) (this is strictly at the discretion of Elsoms). SOLA's and EAMU's are uses for which approval has been sought by individuals or organisations other than the manufacturers. The Notices of Approval are published by FERA and are widely available from AHDB and/or HDC offices. Buyers must first obtain a copy of the relevant Notice of Approval and comply strictly with the conditions laid down therein. Although approved, off-label and EAMU uses are not endorsed by manufacturers and such treatments are made entirely at the risk of the Buyer.

Damage, delay or loss in transit

Please advise us immediately and, on receipt of goods, inspect carefully. If there is any sign of damage, sign "Damaged in Transit" and indicate then that a claim will be made.

In the case of goods actually delivered damaged, Elsoms must notify the carrier within 10 days of delivery. Buyers are, therefore, requested to notify immediately by phone of any case of goods received damaged and confirm by return first class mails of that the necessary claim can be made. In cases of non-arrival of goods, within fourteen days of despatch, advise the Carriers and us. This gives us the time to lodge a complaint within the time limit of 28 days.

Force majeure

Should the fulfilment of any Contract or order be prevented or delayed by Act of God, action by any Government, blockade, revolution, prohibition of export or import, riot, civil commotion, strikes, lockouts, force majeure, failure of crops, breakdown of machinery, power failure, fuel shortage, loss and/or detention at sea or any other contingency beyond our control, we will not be responsible for any loss and/or damage occasioned thereby. Should any of the goods be rendered unfit for delivery by reason of any of the above acts the Contract so far as it relates to those goods shall be deemed to be cancelled.

Delivery

Each delivery or consignment shall stand as a separate contract.

Effective from 1st April 2016.

Payment

Cheques should be made payable to ELSOMS SEEDS LTD. and crossed/& Co./. Bank transfers can be made to the Elsoms bank account shown on the invoice. After 28 days all accounts are due at full invoice price. Interest will be charged on overdue accounts at a rate of 1.25% per month calculated on the outstanding balance. All accounts are payable at Spalding, Lincs. We reserve the right to require payment at any time and the goods are sold subject to this express condition.

Non-payment

Elsoms reserve the right to withhold deliveries until all and any outstanding payments due from the Buyer under any Contract with us have been received and reserve a lien upon - and the right to sell or otherwise dispose of - all goods the subject of any Contract whether appropriated to it or not in respect of any such payments.

Ownership and risk

(a) Until paid for in full, all goods supplied by Elsoms, remain Elsoms property.

(b) Risk passes to the Buyer on delivery of the goods.

Conditions regarding ownership and risk do not affect
Elsoms contractual rights and all goods supplied must
be paid for in accordance with the contract.

Insolvency

(i) If the Buyer

with his creditors; or

(a) Has a Receiver or Liquidator appointed to any of its property or business undertaking; or

(b) Announces that he is ceasing to Trade (other than for declared legitimate reasons such as retirement, whilst continuing to honour all existing contracts); or

(c) Fails to make a payment as due, suspends payment and/or notifies any of his creditors that he is unable to meet debts or that he is about to suspend payment of his debts: or

(d) Convenes, calls or holds a meeting of creditors; or
(e) Being an individual or a firm becomes bankrupt or
makes any composition or scheme of arrangement

(f) Being a body corporate convenes, calls or holds a meeting for the purpose of going into liquidation (other than for the purpose of reconstruction or amalgamation) by the making of an order or the passing of a resolution for winding-up or becomes subject to an administration order; or

(g) The other party being a partnership - any of the above events occurs with respect to the partnership or to any partner therein;

then:

- notwithstanding any previous arrangement with Elsoms for deferred payments, the full or full remaining price for any goods delivered by Elsoms shall become immediately due to it, and Elsoms shall have the right without prejudice to any other rights and remedies available to it, to cancel and/or suspend or to refuse to accept any further deliveries and/or to terminate the Contract at any time after becoming aware of any of the above circumstances providing that

 when exercising any of the above rights, Elsoms shall inform the Buyer of its intention to exercise such rights in writing within 28 days after the relevant occurrence.

(ii) Whenever any of these rights are exercised by Elsoms, Elsoms will not be liable to pay any compensation to the Buyer.

Complaints

No complaint under the Terms can be considered unless clear proof can be given that the seed grown and alleged to have performed unsatisfactorily was in fact the seed supplied by us and that it was sown on suitably prepared ground treated carefully and correctly throughout and subject only to such conditions as were likely to produce a favourable crop

Arbitration

Any dispute under this Contract shall be referred to arbitration in accordance with the arbitration rules of the British Society of Plant Breeders Ltd, current at the date of the referral, which have been drawn up in consultation with and approved by the National Farmers' Union of England and Wales, the National Farmer's Union of Scotland and the Ulster Farmers' Union. All parties shall in making this Contract be deemed to have knowledge of such rules and to have elected to be bound thereby.

Copies of the arbitration rules can be obtained from British Society of Plant Breeders Ltd, BSPB House, 114 Lancaster Way Business Park, Ely, Cambridgeshire, CB6 3NX or can be seen on our website.

Acceptance of terms

The giving or sending of an order to us constitutes an acceptance of the Terms by the Buyer who, if he/she does not accept the Terms must return the goods forthwith.

Limitation of liability

In the event of any goods supplied by us not complying with the terms of the Contract or of any goods proving defective (whether as regards purity or germination or otherwise) we will at our option replace the goods free of charge to the Buyer or will refund all payments made to us by the Buyer in respect of the defective goods and this will be the limit and the sole extent of our obligation. Save as set out in this clause above we hereby exclude all liability whatsoever (whether based on negligence by us or our employees, suppliers, sub-contractors or agents or otherwise) for any loss expense or damage whether direct or consequential arising in any way whatsoever in connection with any goods supplied by us whether due to any failure in the performance of or any defect in any such goods or otherwise howsnever. In accordance with the established custom of the seed and horticultural trade any express or implied condition statement or warranty statutory or otherwise whatsoever not expressly stated in the Terms is excluded. The price of all goods sold by us is based upon the foregoing limitations upon our liability and would be much greater if a more extensive liability were required to be undertaken by us. In accepting the goods upon these conditions the Buyer acknowledges that the limitation of Elsoms liability is fair and reasonable.

General

If any provision of the Terms is held by a Court or other competent authority to be invalid or unenforceable in whole or in part the validity of the other provisions of the Terms and the remainder of the provision in question shall not be affected.

Contracts (Rights of Third Parties) Act 1999

The parties acknowledge that it is not their intention that any third party shall be entitled to enforce any term of the Contract which may confer a benefit on that third party whether any such entitlement would, but for this provision, arise under the Contracts (Rights of Third Parties) Act 1999 or otherwise.

