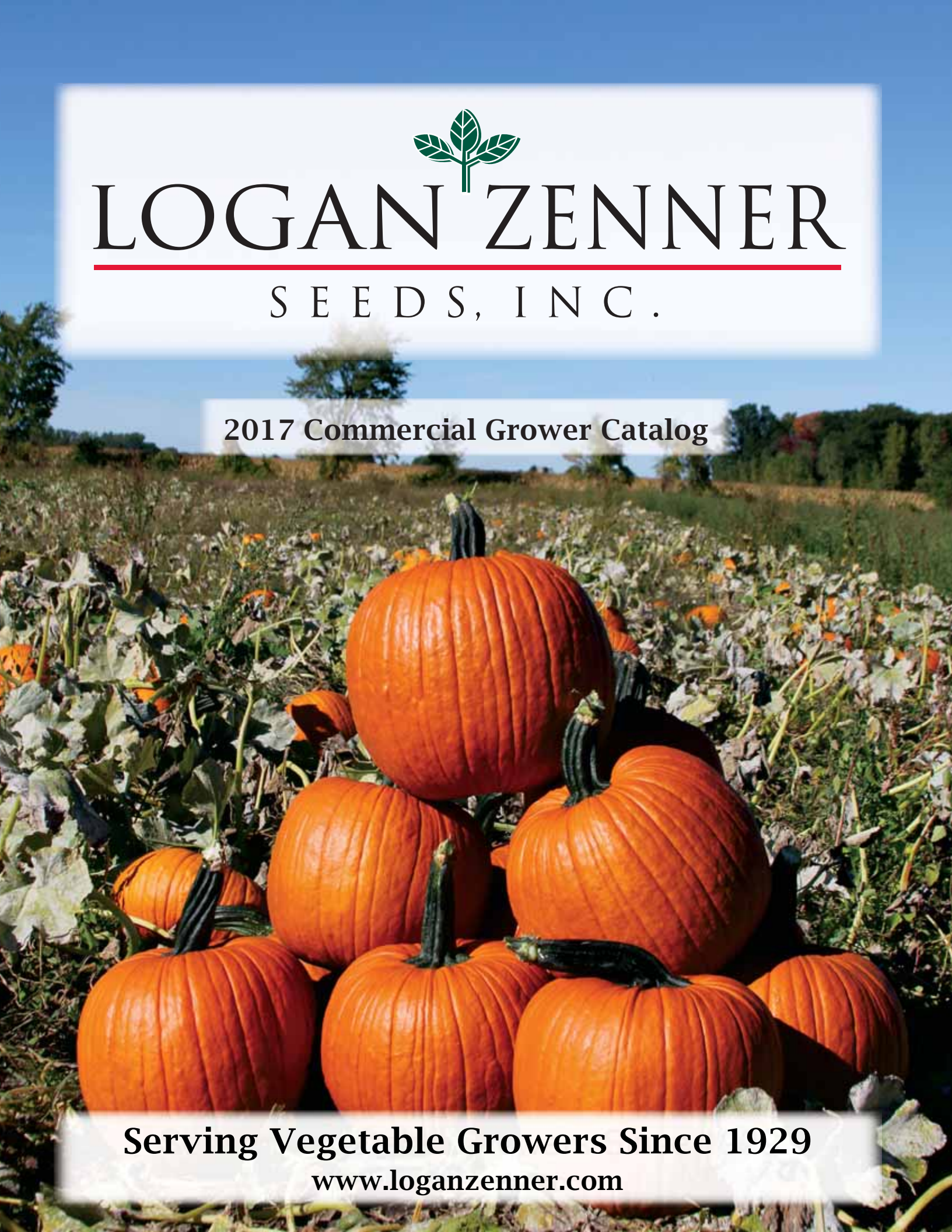
LOGAN ZENNER

SEEDS, INC.

2017 Commercial Grower Catalog



Serving Vegetable Growers Since 1929

www.loganzenner.com

COMPANY HISTORY



Wilbur Logan



Joe Yoder

Zenner Brothers Seed Company was founded by Walt and Arnold Zenner on January 1, 1929 in Portland, Oregon. The business initially served retail produce growers and truck gardeners. It was expanded into retail sales once a store was opened in the Hollywood/Rose City district of Portland. Joe Yoder purchased the business in 1979 and continued to operate the business in Portland until 2001. Wilbur Logan entered the seed business in 1938 when he purchased Reservation Feed Mill founded in 1916 and located in Wapato, Washington. Wilbur was instrumental in helping a number of the minority growers located in the area during and following the tough times of WWII. In 1956 Wilbur opened a second retail store in Toppenish, Washington and in 1960, due to local demand, he started a vegetable seed sale business. In 1960 Wilbur changed the name to Logan Company and operated the business until 2001 when the merger with Zenner Brothers Seed occurred.

Zenner Brother Seed, Inc. and Logan Seed merged on August 7, 2001 and the name was changed to Logan-Zenner Seeds, Inc. in 2002. In 2003 Logan-Zenner Seeds relocated from Wapato, Washington To Pasco, Washington where we continue to serve you to this day.

Seeders, Transplanters and Replacement Parts:

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LOGAN ZENNER

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www.loganzenner.com

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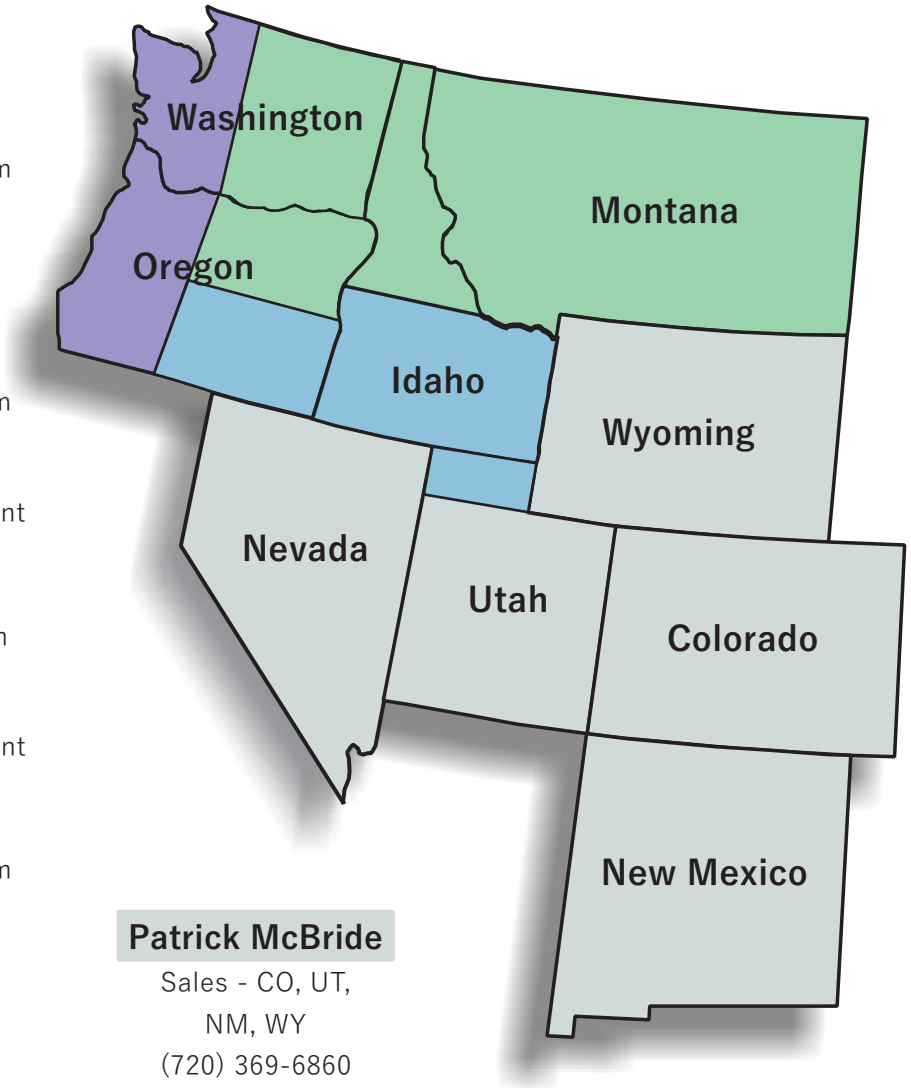
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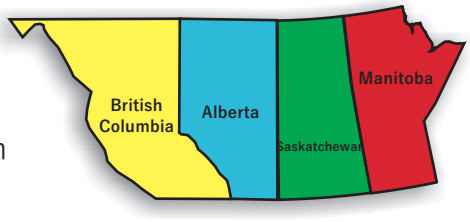
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LOGAN ZENNER

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VARIETAL INFORMATION

Descriptions contained within this catalog are for comparative purposes. They are intended to be used as a guideline only and can be expected to vary in some degree depending upon growing region, soil, climate and cultural practices. The descriptions are prepared from average trial data collected under favorable growing conditions. Similar or identical results are not implied or guaranteed. The information on relative maturity is given as a guide. Actual maturity may vary considerably with conditions and growing regions.

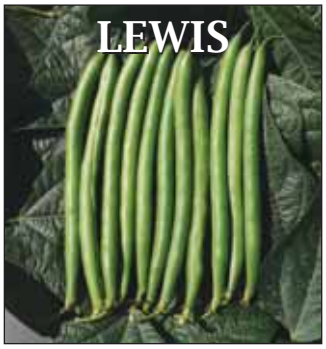
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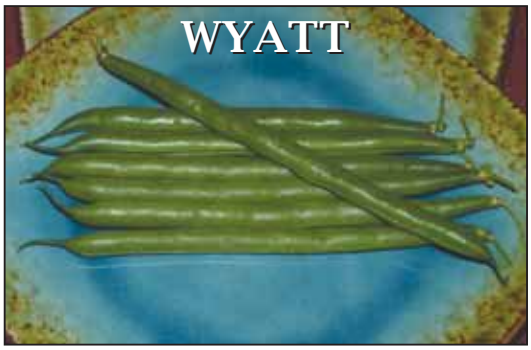
Artichoke		
Variety		Features
Green Globe	L	Perennial plant valued for its tender, edible flowers. Globe shaped fruit is 2-5" in diameter with thick flavorful hearts. Medium deep-green with light purple tinge.
Emerald	M	Plant is open and erect; buds are on long stems for easy harvest. Fruits are oval in shape with a moist, nutty taste. Hearts are large and deep. The attractive glossy green color sets it apart from other varieties. Excellent taste and cold tolerant.

Please See Price List For Additional Varieties Which May Be Available

BEANS









Beans - Bush Round Pod								
Variety	Relative Days	Pod Size	Pod Color	Seed Color	Sieve Size	Disease		Features
Blue Lake 274	52	6"	Dark Green	White	4	BCMV(r), NY15(r)	L	Blue Lake 274 is famous for yield, quality and flavor. Popular variety for roadside stands and local markets.
Valentino LZ	53	5.5"	Dark Green	White	3	BCMV(r)	M	Straight pods are well positioned to facilitate mechanical harvest. Sets well in warm conditions. Excellent quality.
Lewis	53	5.5"	Medium Dark Green	White	3-4	BCMV(r), Psp(r) BCTV(r), Ua(r)	M	Early, attractive straight pod with medium dark green color, upright plant and excellent disease resistance.
Wyatt LZ	54	5.7"	Dark Green	White	3-4	BCMV(r), CTV(r) HB(r), BBS(r), XAP(r)	M	Consistent yield of dark green, shiny pods with upright plant. Excellent bacterial disease and virus resistance.
Sahara	54	5.5"	Dark Green	White	3-4	BCMV(r), BBS(r), HB(r)	M	Erect habit with pods set well above the soil surface. Good yield potential. Concentrated set.
Savannah	55	5.5"	Dark Green	White	3-4	BCMV(l), A(r), CalMV(r), CTV(r)	M	Concentrated set of straight, dark green pods. Beans set high on the plant.
Royal Burgundy	55	6"	Purple	Buff	4		L	Eye catching color and great flavor. Purple pods turn green when cooked.
Cassidy	56	5.25"	Medium Dark Green	White	3	BCMV(r), CTV(r) HB(r), BBS(r), XAP(r)	L	Straight 3-sieve pod on a very upright plant. High quality, excellent disease resistance.
Pike LZ	56	5.5"	Medium Dark Green	White	3	BCMV(r) CTV(r)	M	This attractive, straight bean has an upright plant. Excellent harvest-ability and consistent performer.
Caprice	56	5.5"	Medium Dark Green	White	3-5	Cl(r), Psp(r), Pss(r) BCMV(r), Xap(r)	M	A high quality straight, smooth pod with excellent yield and slow seed development on an upright plant.







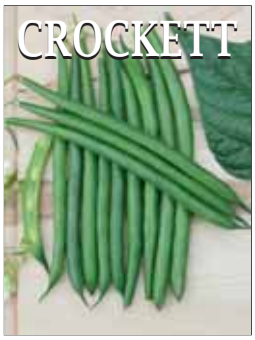
Please See Price List For Additional Varieties Which May Be Available

L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

BEANS (Cont.)

Beans - Bush Round Pod

Variety	Relative Days	Pod Size	Pod Color	Seed Color	Sieve Size	Disease		Features
Crockett	58	5.25"	Deep Green	White	2-3	R(r), CB(r), HB(r), DBS(r), CTV(r)	M	Upright plant habit that produces very uniform pods that are round and straight. Excellent disease package.
Jade	60	6.5"	Very Dark Green	White	3-4	BCMV(l), R(t), NY15(r), CTV(r)	M	Very productive with long, straight dark green pods. Upright bush holds pods above soil. Hand harvest.
Fandango (Paulista)	62	5.5-6"	Dark Green	White	3	A(r), BCMV	M	Erect plant allows for easy harvest of straight, slender beans. Excellent yield potential.









Beans - Bush Yellow Wax

Variety	Relative Days	Pod Size	Pod Color	Seed Color	Sieve Size	Disease		Features
Rocdor	53	6"	Yellow	Dark Seeded	3-4	BCMV(t), A(t)	M	Produces high quality, long, slender pods. Early maturity with excellent yield potential. Vigorous plant.
Carson	56	5.5"	Yellow	White	4	BV1, NY15, A, BBS(t)	M	High yielding with straight, uniform pods about two days earlier than Indy Gold with slightly smaller sieve size.
Goldrush	53	5.5"	Yellow	White	4	BCMV(r), CTV(t)	M	Goldrush is an attractive yellow wax with a highly concentrated set. Suited for mechanical harvest.

Beans - Garbanzo

Variety	Relative Days	Pod Length	Color	Seed Color	Disease		Features
Sierra	Mid-Late	.75"	Tan	Tan		L	Plant is sturdy and grows to about 18" high. Outstanding yield potential.

Beans - Bush Lima

Variety	Relative Days	Pod Length	Color	Seed Color		Features
Fordhook 242	70	4-5x1"	Med Green	White	L	Popular, widely adapted bush lima. Uniform with excellent quality and yield potential.

Beans - Bush Fava / Broad

Variety	Relative Days	Pod Length	Color	Seed Color		Features
Broad Windsor	85	7"	Med Green	Green	L	5-7 flat, green beans per pod. Does best in cooler weather and should be planted in early Spring. Eat beans green or dried.

Please See Price List For Additional Varieties Which May Be Available

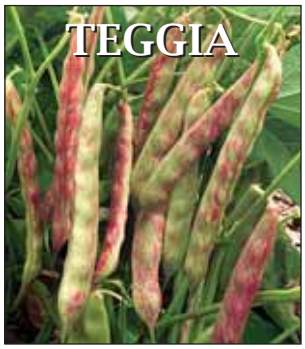
BEANS (Cont.)

Beans - Bush Flat Pod

Variety	Relative Days	Pod Size	Pod Color	Seed Color	Disease		Features
Furano	54	5.5-6"	Medium Green	White	BCMV(hr)	M	Furano has a great plant habit and exception eating quality.
Kentucky 125	58	6-7"	Medium Green	White		L	Bush flat pod shipping type. Low fiber with good holding ability.
Roma II	59	4-5"	Light Green	White	BCMV(l), NY15(r)	L	Standard Romano bean that is very slow to develop seed. Reduced fiber enhances eating quality.









Beans - Horticultural

Variety	Relative Days	Pod Length	Color	Seed Color		Features
Teggia	68	6"	Red Streaked	Buff Red	M	A bush type with improved red/buff contrasting colors at full maturity. Strong plants without runners produce 6-7" pods. Good yield potential.
French Horticultural	68	6"	Red Speckled	Red Buff Speckled	L	Long, red streaked pods are striking in appearance; has a semi-runner plant habit. Use as a green shell bean or in the dry stage.





Beans - Edible Soybeans (Edamame)

Variety	Relative Days	Pod Length	Color	Seed Color		Features
Beer Friend	100	2-2.5"	White Pubescence	Light Green	L	Early, large podded and prolific Japanese type. Pods contain mostly 2-3 beans. High quality with good flavor. Plant height is 20".
BeSweet 292	110	2-2.5"	White Pubescence	Yellow	L	Mostly two seeds per pod. Second early variety with good yields, flavor and size. Plant height is 24".

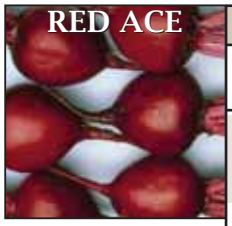
Beans - Pole

Variety	Relative Days	Pod Length	Color	Seed Color		Features
Blue Lake FM1K	58	6-7"	Dk Green	White	L	Vigorous plant produces meaty, smooth beans. Excellent for canning or freezing.
Kentucky Wonder	65	7-9"	Green	Brown	L	Hardy plant the is very prolific and widely adapted. One of the most widely used varieties.

Please See Price List For Additional Varieties Which May Be Available

L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

BEETS



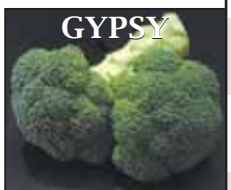














Hybrid Beets

Variety	Relative Days	Root Shape	Root Color	Top Height	Top Color	Disease		Features
Boldor	51	Round	Golden	Med	Green		M	Boldor has good vigor and exceptional golden color. Great quality makes this an excellent fresh market beet.
Red Ace	53	Smooth Globe	Dark Red	Short 12-13"	Bright Green	DM(t), CLS, DH, BH	M	Very popular variety. It is noted for its uniform early maturity, heavy yields and consistent interior color.
Zeppo NEW	53-55	Round Globe	Dark Red	Upright	Glossy Green		M	Zeppo is a fast growing hybrid perfect for bunching. A grower favorite due to it fine tap root, great shape and dark color.
Red Atlas	55	Top	Dark Red	Medium 14-15"	Bright Green	CLS, DW, PM, RZ, DT	M	Uniform shape with high yield and consistent quality. Red Atlas has great color and an added drought/disease tolerance.
Moneta	60	Round	Deep Red	Short 12-14"	Bright Green		M	Monogerm beet for precision seeding. Uniform round roots with deep red interior color.
Boro	77	Globe	Deep Crimson	Tall 16"	Dark Green	DM(t), CLS, DH, BH	M	Strong upright foliage, hardy leaves. Very round root with fine stem attachment and fine tap roots. Smooth with no russeting.

Please See Price List For Additional Varieties Which May Be Available

Open Pollinated Beets

Variety	Relative Days	Root Shape	Root Color	Top Height	Top Color	Disease		Features
Chioggia Guardsmark	52	Globe	Bi-Color	Med.	Green		M	A beautiful bi-colored, scarlet red, garden beet with interior rings of reddish-pink and white.
Detroit Supreme	59	Smooth Globe	Dark Red	Med.	Green	DM(t), BH	L	Detroit Supreme offers a high color, smooth skinned root with refined crown and tap roots. Consistent interior color.
Touchstone Gold	60	Globe	Golden Orange	Med.	Green		M	Roots are uniform shaped and very smooth with a sweet mellow flavor. Green tops with light golden petioles.

Please See Price List For Additional Varieties Which May Be Available

Hybrid Broccoli

Variety	Relative Days	Plant Height	Head Type	Bead Size	Color	Disease		Features
General	75	Med. 25"	Tight Dome	Fine	Blue-Green	DM(t)	M	An early variety with high quality crowns and fine beaded heads. Uniform, well shaped dome.
Green Magic LZ	90	Med.	Semi Domed	Small	Blue-Green	DM(t)	M	Good uniformity and holding ability. An adaptable variety for fresh market & processing.
Gypsy	90	Med.	Smooth Domed	Med.-Small	Med. Green	DM(t)	M	Performs well in moderately warm conditions. Excellent smooth, dome shaped heads.
Emerald Crown	93	Compact	Semi Domed	Small	Blue-Green		M	Excellent quality crown cuts/short trim product in NAFTA regions. High resistance to purpling.
Arcadia	95	Tall	High Dome	Small	Med. Green		M	Widely adapted hybrid. Good resistance to hollow stem. Fresh market or processing.
Emerald Pride	97	Med.	Semi Domed	Fine	Dark Green	DM(t)	M	Summer type for bunching and processing with medium branching. Good heat tolerance.
Marathon	97	Med. Tall	Dome	Small	Blue-Green		M	Highly adaptable with high dome, small bead and heavy head. Sizes well in cold.

BROCCOLI (Cont.)









Broccoli - Purple Sprouting

Variety	Relative Days	Head Size	Color	Plant Height		Features
Rioja	125	1" Sprouts	Purple	16-20"	M	Taller than Santee with an eye catching purple color and very tender green stems. Concentrated harvest. Fall or winter crops.
Red Fire	Main	Medium to Large	Purple	Tall	M	Overwinter type. The heads are easy to pick, medium to large size with a dark purple color.
Mendocino NEW	190	Broccolini Spears	Purple	Upright	M	Overwinter type. Good Cold tolerance with high yields. Upright plant with an abundance of beautiful purple spears.
Bonarda	230	Broccolini Spears	Purple	Tall Upright	M	Overwinter type. Spears are of excellent quality with a vibrant purple color. Tall upright plant produces good yield.

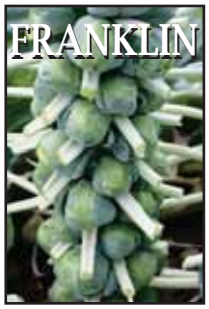
Broccoli - Raab (Rapini)

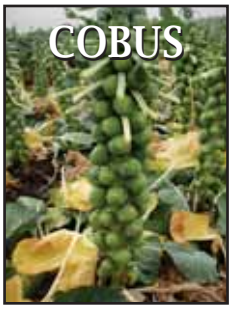


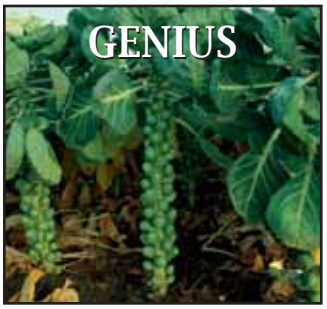
Variety	Days	Color		Features
Sorrento	40	Blue-Green	L	An early maturing, high quality raab with medium/large florets. Tall and erect. Harvest early Fall and Spring.
Zamboni	60	Blue-Green	L	A slow maturing high quality raab with uniform flowering. Tall with blue-green leaf color. Harvest early Spring to Summer.

BRUSSELS SPROUTS









Hybrid Brussels Sprouts

Variety	Relative Days (TP)	Plant Habit	Sprout Type		Features
Gustus	Early	Medium	Round Green	M	Early maturing brussels sprout that has good uniformity with high yield and quality for an early sprout.
Confidant LZ	Early	Medium Large	Round Deep Green	M	Very early maturing with heavy sets of firm, well shaped, round, high quality sprouts for fresh market.
Franklin	100	Tall	Round Green	M	One of the earliest, high-quality varieties available. Heavy yields of uniform, firm sprouts.
Capitola LZ	Early-Mid	Medium	Round Green	M	Very uniform, early maturing variety that can be hand or machine harvested. Highly adaptable and well suite for fresh market or processing.
Cobus	Early-Mid	Medium Tall	Round Green	M	A great mid-to-early maturing variety with good yield potential and suitable for harvesting throughout the mid season.
Genius	Late	Medium	Round Dark Green	M	Good late maturing variety with excellent quality and a dark green color.

Please See Price List For Additional Varieties Which May Be Available

L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

CABBAGE









Hybrid Fresh Market Cabbage - Green

Variety	Relative Days	Color Size	Head Type	Disease		Features
Fast Vantage	60	Medium Green 2.75 lbs	Round		M	Uniform variety that performs well in early, cool season slot.
Farao LZ	62	Medium Green 3-3.5 lbs	Round	TB(t), T(t)	M	Sweet, dense head; short core. Good field holding. Reliable variety for early fresh market.
Crystal Vantage	65	Green 3-4 lbs	Round	Foc (hr)1	M	Crystal Vantage is easy to grow, early to mature with good head size and disease resistance.
Artost	67	Blue-Green 3-5 lbs	Round	FY(r), TB(t)	M	Attractive, uniform heads with good field holding ability.
Charmant	72	Blue-Green 2.5 lbs	Round	TB(r), FY(r), BR(t)	M	Blue-green color and solid round, uniform heads. Tight internal structure with a short core. Widely adapted.
Kilagreg	75-80	Medium Green 3-5 lbs	Round	CR	M	Early to main season cabbage with high yield and good size. Kilagreg offers peace of mind for growers with club root issues.
Blue Vantage	82	Blue-Green 3 lbs	Round	TB(r), FY(r), BS(t)	M	Mid-season maturity with large, dense heads and a short core. Ideal for fresh and coleslaw market. Widely adapted.
Expat	88	Blue-Green 3-6 lbs	Round	Foc(hr), TB(hr)	M	The same great look and yield as Ramada. Large head with a strong plant for better yield in challenging climates.
Vantage Point	95	Blue-Green 5.5 lbs	Round	TB(t), FY(r)1, BS(t), BR(t)	M	Mid-late season maturity. Large dense heads and a well filled interior makes this variety suited for long distance shipping.
Tekila NEW	95	Blue-Green 5-6 lbs	Round	CR, Foc(hr)1	M	High resistance to Club Root and Fusarium. Good field storage with good quality dense heads. Medium core and good wrapper leaves.









Hybrid Fresh Market Cabbage - Red

Variety	Relative Days	Color Size	Head Type	Disease		Features
Red Dynasty	70	Deep Red 3-4 lbs	Round To Oval	TB(t), BR(t)	M	Good uniformity of size and shape. Intermediate black rot resistance. Holds well. Good internal color.
Primero	72	Deep Red 2-3 lbs	Round	BL(t), TB(t)	M	Good early northern variety with smooth, firm, medium size heads. Suited to close spacing; holds well.
Ruby Perfection	80	Deep Red 3-4 lbs	Round		M	Large framed, vigorous, uniform plant that holds well without bursting.

Please See Price List For Additional Varieties Which May Be Available

CABBAGE (Cont.)







Hybrid Processing Cabbage

Variety	Relative Days	Color Size	Head Type	Disease		Features
Cecile	80	Blue-Green Large	Round	FY(r), TB(t)	M	A vigorous, versatile hybrid with very short core and high dry matter. Superior holding ability.
Megaton	85	Green Very Large	Round	FY(r), TB(t)	M	A very large framed, short cored variety that maximizes yield. A mid-late season type capable of holding over extended periods.
Kaitlin LZ	94	Green Very Large	Round	FY(r), TB(t)	M	Vigorous, dense heads with short cores. Excellent field holding for kraut/slaw. Cuts well mechanically.

Please See Price List For Additional Varieties Which May Be Available

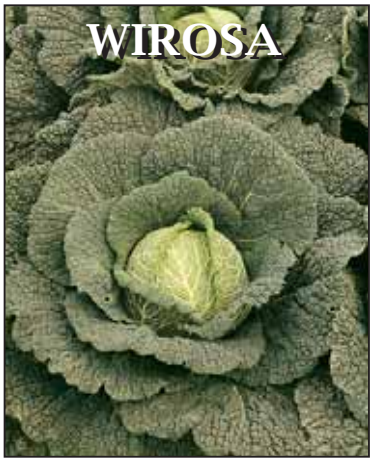
Hybrid Storage Cabbage

Variety	Relative Days	Color Size	Head Type	Disease		Features
Reaction	110	Dark Green 3-4 lbs	Round	FY(r)	M	Storage cabbage designed for close spacing. Small to medium sized heads. Perfect for the organic marketplace.
Bartolo	115	Dark Green 4-8 lbs	Round	BS(t), TB(t)	M	A proven high yielder developed for long term storage and processing. Dense structure with short core. Very good holding ability.

Please See Price List For Additional Varieties Which May Be Available







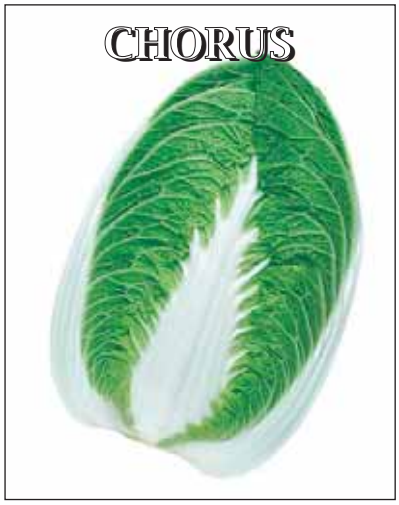
Hybrid Savoy Cabbage

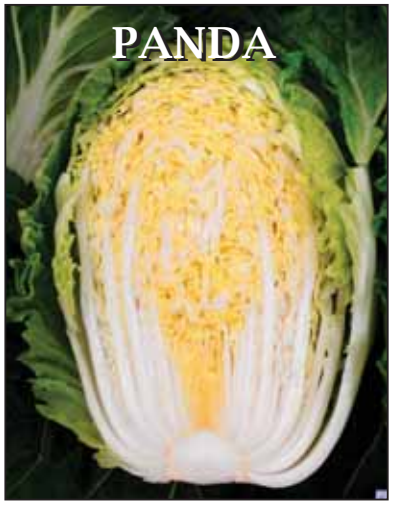
Variety	Relative Days	Color Size	Head Type	Disease		Features
Savoy Ace	80	Deep Green	Semi-Globe		M	AAS winner. A medium large, finely savoyed variety with excellent flavor. This variety has good field holding ability and wide adaptability.
Wirosa	110	Deep Green	Round	TB(t)	M	Frost tolerant solid heads ideal for late fresh market. Stores up to six months.

Please See Price List For Additional Varieties Which May Be Available

L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

CABBAGE (Cont.)







Hybrid Chinese Cabbage

Variety	Relative Days (TP)	Color Size	Head Shape	Disease		Features
Blues	57	Medium Green 4-4.5 lbs	Barrel Shaped	SR(t), DM(t)	M	Spring through early Winter variety that is extra slow to bolt. Very vigorous variety. Well adapted to the Northwest.
Chorus	65	Bright Green 5 lbs	Barrel Shaped	CR(t), DM(t), SR(t)	M	Fall to early Winter variety. Avoid dry conditions at heading stage. Semi-upright plants.
Panda LZ	65-70	Dark Green 4-6 lbs	Cylinder	BS(t), CR(r)	M	Slow bolting and heat tolerant. Strong Club Root resistance. Bright yellow interior color and excellent quality.
China Gold	75	Bright Green 4-5 lbs		TB(t), CR(t)	M	A new Sakata variety with excellent internal and external color. China Gold has a compact frame and is slow to bolt.

Please See Price List For Additional Varieties Which May Be Available

PAK CHOI







Hybrid Pak Choi

Variety	Relative Days	Plant Habit	Head Characteristics		Features
Feng Qing Choi	35-40	Erect, Compact	Green petiole, Tight vase-like shape	M	Feng Qing Choi is slower bolting than Mei Qing Choi with good plant size and a dark leaf color. Good uniformity. Very good bolt resistance.
Mei Qing Choi	35-40	Erect, Compact	Green petiole, Tight vase-like shape	M	First hybrid, green stem dwarf Shanghai Pak Choi type with good heat tolerance and a dark leaf color. Good uniformity. Good bolt resistance.
Joi Choi LZ	50-55	Semi-Erect	Bright green leaves	M	Slow bolting, with excellent uniformity. Widely adaptable. White petioles can get large.

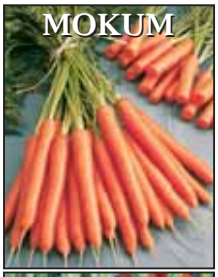
Please See Price List For Additional Varieties Which May Be Available

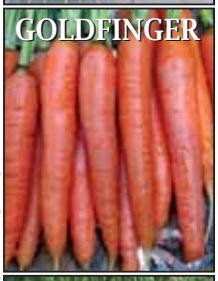
CARROTS

Hybrid Carrots - Fresh Market Nantes Types

Variety	Relative Days	Shape	Root Size	Tops	Use		Features
Mokum	56	Cylindrical Slight Taper	6x.75”	9”	Bunching, Finger Carrot	M	Very high colored. Almost coreless. A sweet, early bunching carrot with early color development. Excellent local market.
Goldfinger LZ	Early	Cylindrical Blunt	5-6x1”	12”	Bunching	M	Very uniform root with sweet flavor. Attractive deep orange color. Strong upright top and bolt tolerant. High yield recovery.
Nelson	Early-Mid	Cylindrical Blunt	7x1.25”	10”	Bunching	M	A smooth, slender, blunt rooted nantes type with excellent color, flavor and uniformity. Good bunching carrot.

Please See Price List For Additional Varieties Which May Be Available





Hybrid Carrots - Cut-n-Peel Types

Variety	Relative Days	Shape	Root Size	Tops	Use		Features
Tastypeel	Mid-Season	Very Cylindrical	14x.75”	Strong	Cut-n-Peel	M	Strong tops, non-bolting. Uniform fill from tip to crown. Flavor is sweet with firm textures. Uniform color with no visible core.
Sweet Bites	Main Season	Long Cylindrical	9-11x.75”	Strong	Cut-n-Peel Slicer	M	Uniform length and round shoulder with excellent tip fill. Sweet Bites has also performed well as a slicing carrot. Sweet flavor.

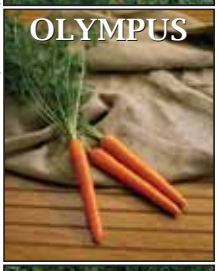
Please See Price List For Additional Varieties Which May Be Available



Hybrid Carrots - Cello / Jumbo Types

Variety	Relative Days	Shape	Root Size	Tops	Use		Features
Envy	Early Season	Cylindrical Tapered	8-10”	Strong	Cello Jumbo	M	This hybrid is a true Jumbo type wth uniform, smooth roots. Performs best at a plant population of approximately 475M / acre.
Dominion	Mid-Season	Semi Blunt	10-12”	Strong	Jumbo	M	Dominion’s strong top and vigorous roots allow for wide adaptability in muck or mineral soil types.
Enterprise	Main Season	Cylindrical Blunt	10-12”	Very Strong	Cello Slicer	M	Widely adaptable. Very smooth with deep orange color and great taste. Tolerance to Alternaria Leaf Blight.
Olympus	120	Tapered	7-8”	15-17”	Cello, Jumbo & Bunching	M	Uniform shape, great color and a smooth finish. Taste is outstanding with a crisp texture. Yield potential is high with this classy carrot.

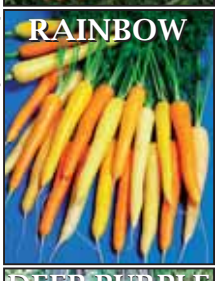
Please See Price List For Additional Varieties Which May Be Available





Hybrid Carrots - Colored

Variety	Relative Days	Shape	Root Size	Tops	Use		Features
White Satin	65	Cylindrical Blunt Tip	8”	14”	Specialty	M	Great quality of shape, yield and flavor in one package! Very crisp, very sweet carrot for early harvest.
Yellowstone	70		9-10”	14-16”	Specialty	M	Vigorous, widely adaptable variety that can grow up to 9-10” in length.
Rainbow	70	Cylindrical	7-8”	14”	Specialty	M	Truly unique hybrid-a single variety; not a blend of seed. Each color offers a distinctive flavor- all have high sugar content.
Purple Haze	95	Cylindrical Taper	7-8”	14”	Specialty, Juice or Dye	M	Unique buncher & juicer. Attractive purple carrot with shocking orange center. Plant a bit later than normal to avoid bolting. ASA Winner!
Deep Purple F1	125	Tapered	12-14” x 1-1¾”	17-20”	Specialty, Juice or Dye	M	Attractive purpling at top attachments. Vigorous tops with uniform roots and a dark purple exterior.





L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

CAULIFLOWER







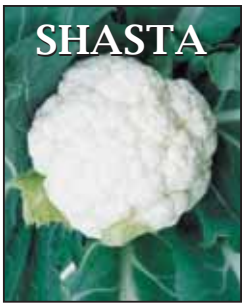


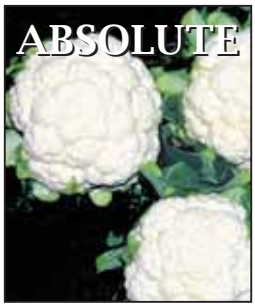
Hybrid Cauliflower

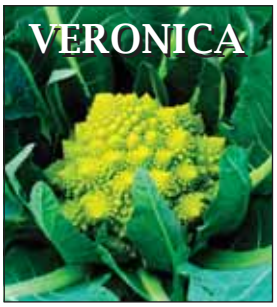
Variety	Relative Days (TP)	Head Shape	Plant Type	Self Wrapping		Features
Minuteman	65-70	Deep Dome	Medium Vigorous	Good	M	Minuteman produces heads that are a brilliant white with good weight and size. For early Summer and Fall harvest. Widely adapted.
Cheddar (Specialty)	67	Dense Dome	Medium Erect	Good	M	An early maturing specialty variety with attractive orange curds. This will make an attractive addition to Graffiti for use in salad bars.
Casper	Early Main	High Dome	Vigorous Erect	Excellent	M	Small frame with a bright white head that weighs well. Excellent wrap helps Casper perform in warm and dry conditions.
Cortes	75	Semi-Dome Smooth	Vigorous Erect	Excellent	M	A mid-season hybrid that has shown good tolerance to fuzziness and internal splitting during Summer production. Excellent quality.
Artica	75	Dense Dome	Medium Large	Good	M	Uniform maturity, bright white head color with heavy, dense curds. Good head protection.
Graffiti (Specialty)	75-80	Dense Dome	Vigorous Erect	Good	M	Deep purple curd color. Excellent for salad bars. Curd changes color when boiled. Antioxidants are 7-10 times greater than normal cauliflower.
Bishop	76	High Dome	Vigorous Erect	Excellent	M	Good summer variety that holds color well. Very bright white with a good wrap. Heavy head makes for great yields.
Verdi (Specialty)	Main	Dome	Erect		M	A unique green, smooth curd cauliflower with good uniformity. Excellent quality and density with higher yields than OP types.
Shasta	85	Semi-Dome	Medium Upright	Excellent	M	A main season hybrid with an upright plant and good inner wrap to protect the head. Heads have excellent weight.
Absolute	85-90	Dense Dome	Medium	Excellent	M	A good choice for main season fresh market. Heads are dense with very white curd and excellent uniformity. Excellent wrapper leaves.











Hybrid Romanesco

Variety	Maturity	Head Size		Features
Veronica	105	Dense Dome	M	Distinct cone shaped florets that measure 6-7” wide and 5-6” high. Large frame with good wraps.

Please See Price List For Additional Varieties Which May Be Available



CAULIFLOWER (Cont.)

Hybrid Cauliflower - Fall / Overwinter Types

Variety	Relative Days (TP)	Options	Head Shape	Plant Type	Self Wrapping		Features
Belot	135-140	Organic	Dome	Large	Good	M	Mid-July planting for late December / early January harvest.
Daydream	170	Non-Treated	Dome	Large	Good	M	Mid-July planting for a early February harvest.
Caprio	195	Non-Treated	Dome	Large	Good	M	Mid-July planting for a mid-March harvest.
Picasso	245	Non-Treated	Dome	Large	Good	M	Mid-July planting for an early April harvest.
Corella	249	Non-Treated	Dome	Large	Good	M	Mid-July planting for an early April harvest.
Chester	257	Non-Treated	Dome	Large	Good	M	Mid-July planting for an early May harvest.

Please See Price List For Additional Varieties Which May Be Available









CELERY

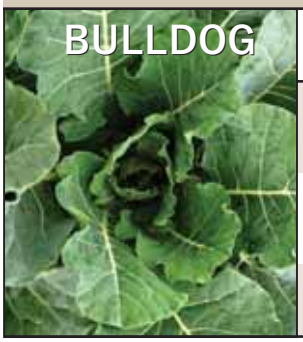
Celery

Variety	Relative Days (TP)	Color	Plant Height	Stock Length		Features
TZ 0295	100	Standard Green	20”	11.5”	M	Produces heavy yield with relatively smooth petioles. Fresh market variety with excellent Fusarium resistance.
TZ 6200	100	Standard Green	18”	9.5”	M	TZ 6200 has excellent uniformity and produces long petioles and heavy sticks. Fusarium resistant.
Tall Utah 52-70 R	120	Medium Green	25”	10-12”	L	Resistant to brown check and tolerant to Western Celery Mosaic. Tall, sturdy plant; will bolt in cold weather.

Please See Price List For Additional Varieties Which May Be Available

COLLARDS

Collards



Variety	Relative Days	Plant Type	Leaf Color	Leaf Type		Features
Bulldog F1	71	Tall Erect	Deep Green	Slightly Wavy Broad	L	An extremely uniform, early maturing hybrid that has a more erect leaf than Top Bunch. Excellent uniformity and yield for fresh market and processing.
Top Bunch	71	Tall Semi-Erect	Blue-Green	Slightly Wavy Broad	L	Early maturing hybrid with wavy, lightly savoyed leaves that regrow quickly after harvest. Suitable for fresh market bunching and machine harvest for processing.
Vates	78	Upright	Green	Large Smooth	L	Upright, productive and long standing. Cold hardy and slow to bolt.

Please See Price List For Additional Varieties Which May Be Available

L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

SWEET CORN

TripleSweet™ and **Synergistic** varieties are a new class of sweet corn that have 75% sugary enhanced (se) kernels and 25% supersweet kernels. The result of this genetic combination is extended shelf life over traditional se varieties and exceptional eating quality. These varieties are for local markets and roadside stands. They are widely adapted with excellent results in Western U.S. and Canada. Isolation requirements are the same as those required for sugar enhanced varieties. Yellow, bicolor and white









Yellow Sugar Enhanced Hybrids

Variety	Relative Days	Plant Height	Ear Height	Ear Size	Row Count	Disease		Features
Spring Treat Homozygous	68	5 ft	12”	7.5”	12		M	Two days earlier than Sugar Buns with the same great taste and tiller free clean plant. Nice package.
Bodacious Homozygous	75	7.25 ft	20”	8x1.8”	16	R(t), SW(t)	L	Excellent eating quality and holding ability. Widely adapted with consistent performance.
Honey Select TripleSweet™ LZ	79	6.5-7 ft	28”	8.5x2”	18-20	IR:Pst	M	AAS Winner! Honey Select is noted for producing large refined ears. Superb eating quality.
GH 0851 TripleSweet ™ (Attribute)	80	Medium		8”	16	HR: Bm/Ps (Rp 1-d)	M	Yellow Triplesweet™ with Attribute insect protection for main season market. Great eating quality. Requires a signed stewardship agreement.

Please See Price List For Additional Varieties Which May Be Available





Bi-Color Sugar Enhanced Hybrids

Variety	Relative Days	Plant Height	Ear Height	Ear Size	Row Count	Disease		Features
Sweetness Synergistic LZ	68	72”	18”	8”	16		M	The excellent emergence and vigor that produces a sturdy plant. Good tender and flavor with excellent protection.
Profit Synergistic	70	86”	23”	8”	14-16	CR(ir), SW(ir) NCL(ir)	M	Large early season ear with excellent husk protection, attractive flags and good tip fill.

Please See Price List For Additional Varieties Which May Be Available

SWEET CORN (Cont.)

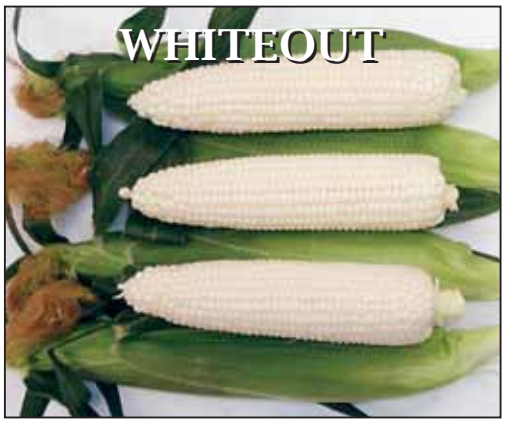






Bi-Color Sugar Enhanced Hybrids

Variety	Relative Days	Plant Height	Ear Height	Ear Size	Row Count	Disease		Features
Bon Appetit TSW Homozygous	71	6.5 ft	17”	7.75”	16-18		M	Large blunt ears on a nice plant. Excellent eating quality and husk package.
Temptation Heterozygous	72	6 ft	16”	7.5”	16-18		M	Good cold soil vigor, great husk cover and tip fill. High yield potential.
Temptation II	72	6 ft	16-18”	7.5-8”	16-18		M	Biotech bi-color SE sweet corn, Round-Up ready variety. Reduced pesticide variety.
Kristine Synergistic	80	75”	16”	8.5x1.9”	16-18	CW(ir), SW(ir), NCLB(ir)	M	This large mid-season bi-color has great flavor with excellent vigor and husk protection. Good tip fill.
Providence TripleSweet ™	82	6.5 ft	26”	8.5x1.85”	14-18	R(Rp1-d)	M	Large, slightly tapered ears with superb eating quality. Suited for roadside stands and local markets.
BC 0805 TripleSweet ™ (Attribute)	82	6.5 ft	26”	8.5x1.95”	14-16	R(Rp1-d)	M	Insect - Protected Variety! The first Attribute insect protected TripleSweet™ variety. Outstanding eating quality. Requires a signed stewardship agreement.





White Sugar Enhanced Hybrids

Variety	Relative Days	Plant Height	Ear Height	Ear Size	Row Count	Disease		Features
Whiteout Homozygous	73	6.5 ft	16”	8”	16		M	Very good eating quality. Sturdy, vigorous plant, classy package with great ear conformation. Excellent flavor.
Silver Duchess Synergistic	78	101”	20”	9x1.9”	16	CR(ir), SW(ir) NCL(ir)	M	High yielding, grower friendly variety is consistent with good tip fill, a nice husk package and good eating quality.
WH 0809 TripleSweet ™ (Attribute)	80	6.5 ft	22-26”	8.5x1.95”	16	SCLB(r), R(r)	M	Insect - Protected Variety! Similar to Avalon with better field holding. Exceptional eating quality. Requires a signed stewardship agreement.

Please See Price List For Additional Varieties Which May Be Available

L - sold per pound M - sold per thousand - Logan-Zenner favorites

SWEET CORN (Cont.)









Yellow Super Sweet Hybrids

Variety	Relative Days	Plant Height	Ear Height	Ear Size	Row Count	Disease		Features
Xtra-Tender 170A	70	5.5 ft	18”	8x1.9”	14-16		M	Good emergence and seedling vigor. Eating quality is very tender and sweet. Attractive bright glossy kernels.
7300R Summer SWeet®	73	Medium	30”	8”	16-18	Ps(hr), Et(ir), Bm(ir)	M	Excellent kernel color and quality. Good husk protection and flags. Clean single stalk plant. MultiGlow®
ACX MS 4001 Summer SWeet®	74	Medium	20”	8”	16-18	,	M	Very high quality ear with excellent tender and flavor. Dark husk with good protection and attractive flags.
Vision MXR Augmented	75	6 ft	20”	8x1.9”	16-18		M	Eating quality of this variety is exceptional. Large ears with good tip fill. Good emergence and early vigor.
GSS 0966 (Attribute)	78	6.5 ft	30”	8x1.8”	16-18	NCLB(t), SW(t)	M	Insect-Protected Variety! Attractive, high quality ears with good husk cover and tip fill. Widely adapted. Requires signed stewardship agreement.
Krispy King	78	6.5-7 ft	26”	8x1.9”	18-20		M	Nice package with good eating quality. Good tip fill and holding ability. Widely adapted. A real workhorse.
Accession MultiSweet	78	6.5 ft	26”	8x1.9”	16-18	NCLB	M	Large ear with excellent tip fill and husk cover. Accession has performed very well throughout the Northwest.
Passion II Performance	81	Medium	28”	8x1.7”	18-20	HR:Ps\Rp1D IR:Et\Ps	M	Biotech yellow SH2 sweet corn, Round-Up ready variety. Reduced pesticide variety.
Super Sweet Jubilee	83	6.5-7 ft	28”	8.5x1.8”	16-20		M	Exceptional qualities. Refined sweet flavor, smooth texture and tender pericarp.









Bi-Color Super Sweet Hybrids

Variety	Relative Days	Plant Height	Ear Height	Ear Size	Row Count	Disease		Features
Xtra-Tender 270A Augmented	70	6 ft	30”	8”	14-16		M	Early with vigorous growth habits. Large ears, refined kernels and outstanding eating quality. Good first early.
XTH 20173 NEW	74	6.5 ft	30”	8x2”	18-20		M	Good emergence and seedling vigor. Refined brightly colored kernels. Excellent eating, very tender and sweet.
Xtra-Tender 274A	74	6.5 ft	30”	8x2”	18-20		M	Good emergence and seedling vigor. Refined brightly colored kernels. Excellent eating, very tender and sweet.
Sweet Surprise Augmented	75	5 ft	17”	7.5”	16-18		M	Large ear with high quality for roadside market. Good husk cover and appearance. Excellent eating quality.
Honey ‘N Pearl	76	6 ft	21”	8.5x1.9”	16	SC(r)	L	AAS Winner! Outstanding eating qualities. Lacks cold soil vigor. Plant in warm soil conditions.

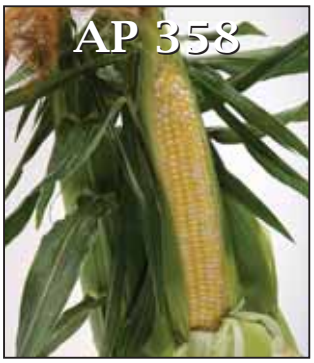
Please See Price List For Additional Varieties Which May Be Available

SWEET CORN (Cont.)

Bi-Color Super Sweet Hybrids

Variety	Relative Days	Plant Height	Ear Height	Ear Size	Row Count	Disease		Features
Cabo NEW	77	6 ft	24”	8”	16-18		M	Attractive ears with exceptional eating quality. This variety has performed well in the Northwest. Hand pick.
AP 358 LZ	78	6 ft	23”	8x1.9"	16-18		M	358 boasts excellent tender and flavor. Dark green husks have excellent flags. Highest quality main season variety.
Obsession II Performance	80	X	24”	8-8.5”	16-20	HR:Ps\Rp1D IR:Et\Pst	M	Biotech bi-color SH2 sweet corn, Round-Up ready variety. Reduced pesticide variety.
SV9010SA Performance	81	6 ft	24”	8.5x1.7"	18-20	HR:Rp1D+Rpg IR:Pst\Et	M	Biotech bi-color SH2 sweet corn, Round-Up ready variety. Reduced pesticide variety.
BSS 0982 (Attribute)	82	6.5-7 ft	26-28”	8x1.85”	16	R(r) SCLB(r), MDMV(r)	M	Insect-Protected Variety! Good color contrast and exceptional eating quality. Many tillers; plant densely. Requires a signed stewardship agreement.









White Super Sweet Hybrids

Variety	Relative Days	Plant Height	Ear Height	Ear Size	Row Count	Disease		Features
Xtra-Tender 372A Augmented	72	5-6 ft	18”	7.8x1.9”	16-20		M	Second early; excellent emergence and seedling vigor. Good tip fill with tender kernels. Hand pick.
MultiSweet 2001MR Summer SWeet	74	Medium	20"	8”	16-18	Ps(IR), Et(IR), Bm(IR)	M	Improved seedling vigor and emergence. Good eating quality and appearance. Produces second ears.
XTH 3674 Augmented	74	5-6 ft	22”	8.25”	16-18		M	3674 has superb eating quality. An excellent husk package with great flags. Outstanding yield potential.
MultiGlow 7401 LZ	75	Medium Short		8”	16-18	MDMV(HR)	M	Bright white kernels with excellent husk cover. Very good eating quality and attractive flags.
Glacial	76	Medium	24”	8”	16-18		M	Outshining the competition with white kernels that actually stay white. A flavorful ear that fills to the tip.
HiGlow MS 7701 Summer SWeet	78	Short	26”	8”	16-18	MDMV(HR)	M	Superior eating quality with bright white kernels. Dark green husks, plentiful flags and excellent protection.
WSS 0987 (Attribute)	81	6.5 ft	24”	7.5x1.85”	14-16	R(Rp1-d), NCLB(t), SW(t)	M	Insect - Protected Variety! A consistent performing white for the fresh shipper market. Latest addition. Requires a signed stewardship agreement.

Please See Price List For Additional Varieties Which May Be Available

POPCORN

Hybrid Popcorn

Variety	Days	Color		Features
98114W	Mid-Season	White	L	Taller and higher yielding than R21-82W with similar eating quality. Ear and kernel are larger, later maturing with higher expansion.
997Y	Mid-Season	Yellow	L	Large grain butterfly type that tolerates both gray leaf spot and drought conditions. Long cylinder shaped ears with easy shelling orange kernels and improved stock strength. Wide geographic adaptation.

Please See Price List For Additional Varieties Which May Be Available

L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

ORNAMENTAL CORN

Ornamental Corn

Variety	Days	Ear		Features
Mini Blue	100	2-4”	L	Ears have medium dark blue kernels. The colonial blue color of the ears make this variety popular.
Mini Colored	100	3-5”	L	Some of the ears have solid color, but most are multicolored and calicos.
Mini Pink	100	3-5”	L	The miniature kernels are an attractive pink or mauve color. Color varies slightly from ear to ear.
Fiesta	100	7-10”	L	Early, shorter stalks than standard Indian Ornamental. Very attractive mix of colors.
Red Stalker	100	8-9”	L	Purple-red stalks and husks. plant grows 7’ tall with large 8-9” ear of multicolored kernels.
Hopi Blue aka Blue Dent	100-110	8”	L	Five foot stalks. Dries to a Royal Blue color.
Autumn Explosion	102	8-9”	L	Hybrid ornamental developed for improved lodging resistance and color variations.
Mixed Colored Broom	105		L	A mixture of different broom corn varieties. Can be harvested anytime after the seed head develops.
Bloody Butcher	105	8-12”	L	Plants are 10 to 13 feet tall with 1 to 2 ears per stalk. Ears have a mix of blood red and lighter red kernels.
Wampum	105	4-5”	L	Plant height is 4 to 5 feet. Shiny kernels in white, pink, red, brown, black, blue and gold.
Carousel	110	3-4”	L	Plants produce multiple miniature ears with red, white, yellow and blue kernels.
Strawberry Popcorn	110	2”	L	Very attractive dark strawberry color and shape.





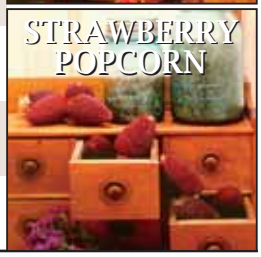






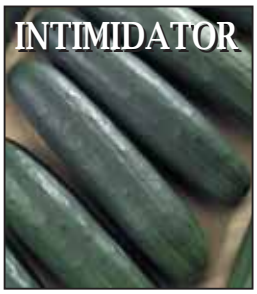






Please See Price List For Additional Varieties Which May Be Available

CUCUMBER - SLICING









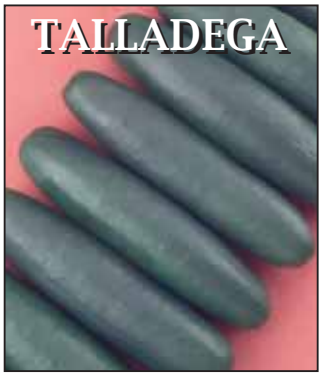


Hybrid Cucumber - Slicing

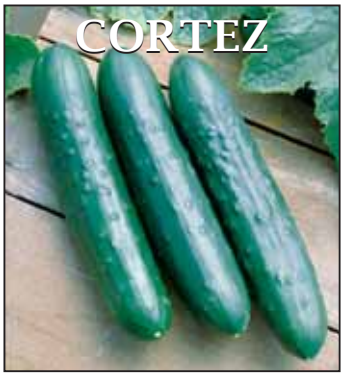
Variety	Relative Days	Flower Habit	Fruit Shape	Fruit Skin	Disease		Features
Intimidator	Very Early	GYN	7-8”	Dark Green	A(t), ALS(t), CMY(t), DM(t), PM(t), Sc(t)	M	Early maturing hybrid with premium quality fruits. Uniform length & diameter with even taper at ends.
Stonewall	Early-Mid	GYN	8x2.5” Straight	Dark Green	Sc(r), PM(r), DM(r), CMY(r), ALS(r), A	M	Uniform dark green fruit that is glossy with an attractive shape. Good yield potential.
Superior	35-40	GYN	9x2.5” Straight	Dark Green	PRSV, SC, WMV, ZYMV, ALS, A, CMV, PM, DM	M	Excellent quality and multi-virus package. Provides good production in fields with or without plastic.
SV4719CS Performance	56	GYN	8.5x2” Straight	Dark Green	HR:ZYMV, Psl, Ccu, Co;1 IR:Pcu, Px	M	Produces an abundance of dark green fruit with an excellent disease package. Treated seed only.
Dasher II	58	GYN	8x2.25” Straight	Uniform Dk Green	Sc(r), ALS(r), A(r)2, CMV(r), DM(r), PM(r)	M	Market leader for many years; extremely productive, excellent quality and consistency.

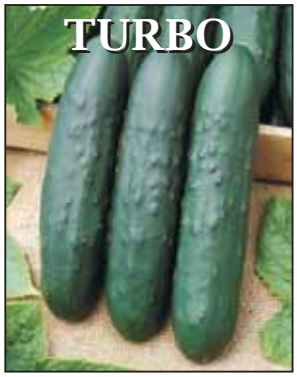
Please See Price List For Additional Varieties Which May Be Available

CUCUMBER - SLICING









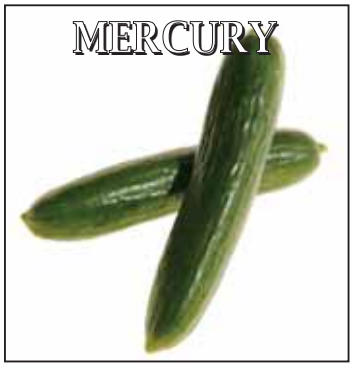
Hybrid Cucumber - Slicing

Variety	Relative Days	Flower Habit	Fruit Shape	Fruit Skin	Disease		Features
Talladega LZ	58	GYN	8x2.25" Straight	Uniform Dk Green	Sc(r), ALS(r), PM(t), WMV(r), A(r)2, DM(t)	M	Highly productive, uniform dark green slicer with very few spines and no blossom end scar.
Cobra LZ	60	GYN	9x2.25" Straight	Uniform Very Dark Green	Sc(t), ALS(t), PM(t), PRSV(t), WMV(t), ZYMV(t), CMV(t)	M	Cobra has an excellent disease package. Attractive dark green color and excellent yield potential.
Cortez	60	GYN	9x2.25" Straight	Uniform Very Dark Green	Sc(r), ALS(r), PM(r), PRSV(r), WMV(r), ZYMV(r), A(r)2, PM(r)	M	High yielding with exceptional fruit quality. Excellent fruit color for ground culture.
Turbo	67	GYN	9.25x2.25" Straight	Uniform Very Dark Green	ALS(r), A(r)2, CMV(r), PM(r), Sc(r)	M	Excellent color & length; small seed cavity. Good disease package and very productive. Vigorous.

CUCUMBER - SPECIALTY

Hybrid Cucumber - Specialty

Variety	Relative Days	Flower Habit	Fruit Shape	Fruit Skin	Disease		Features
Mercury BEIT ALPHA	50-55	GYN	7-8" Cylindrical	Dark Green	Multi-Virus(r), PMR	M	Mercury is an early & productive Beit Alpha. Good flavor, crisp flesh and a shiny dark green skin.
Tasty Green Burpless	62	MON	9x1.5" Straight	Dark Green	PM(r), DM(t)	M	Monoecious burpless cucumber with sweet taste and good productivity.









CUCUMBER - PICKLING

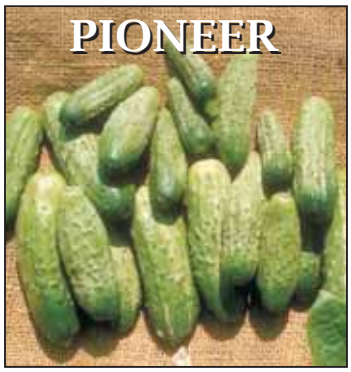
Hybrid Cucumber - Pickling

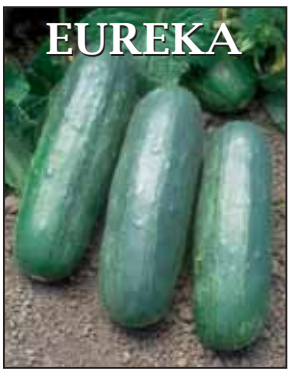
Variety	Relative Days	Flower Habit	Plant	L/D Ratio	Color	Disease		Features
Regal LZ	Very Early	GYN	Vigorous	3.2	Dark Green	ALS(t), Alt(t), CMV(t), DM(t), PM(t), Sc(r)	M	Hand or mechanical harvest. Fruits tend to maintain L/D under stress. White spine.
Calypso	51	GYN	Vigorous	3.0	Medium Green	Alt(r)-2, ALS(r), Sc(r), CMV(r), DM(r), PM(r)	M	Widely adapted. Hand or mechanical harvest. A familiar variety in the Northwest. White spined.
Supremo NEW	40-45	MON	Very Vigorous	3:01	Dark Green	A, ALS, CMV, PM, PRSV, SC, WMV, ZYMV	M	Supremo has high quality, dark green fruit with thick skin and small seed cavity.

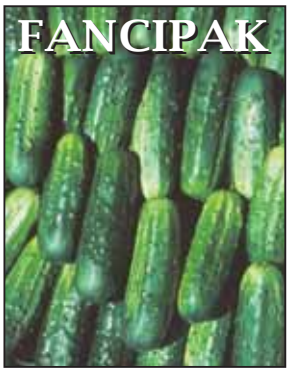
Please See Price List For Additional Varieties Which May Be Available

L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

CUCUMBER - PICKLING (Cont.)









Hybrid Cucumber - Pickling

Variety	Relative Days	Flower Habit	Plant	L/D Ratio	Color	Disease		Features
Pioneer	52	GYN	Vigorous	2.85	Medium Green	Sc(t), CMV(t), DM(t), Alt(t), ALS(t)	M	Supremo has high quality, dark green fruit with thick skin and small seed cavity.
Eureka	57	MON	Vigorous	3.15	Very Dark Green	Sc, ALS, DM, PRSV, PM, WMV, ZYMV, A-2, CMV	M	Well adapted to the Western US, where mosaics are prevalent. Excellent fruit quality. White spine.
Fancipak	57	GYN	Vigorous	3.15	Medium Green	A-1(t),Sc, ALS(t), DM, CMV(t), PM(t)	M	Beautiful, blocky, medium dark green fruit. Fancipak is a favorite for hand pick harvesting.
Sassy	57	GYN	Vigorous	3.15	Dark Green	Sc, ALS, DM, CMV, PM, A	M	Slightly longer fruit length, dark green color and excellent interior make this a classy choice.

Please See Price List For Additional Varieties Which May Be Available

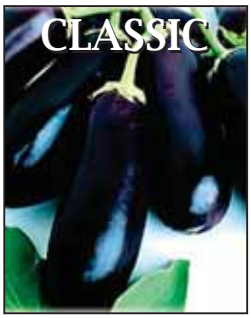
EGGPLANT

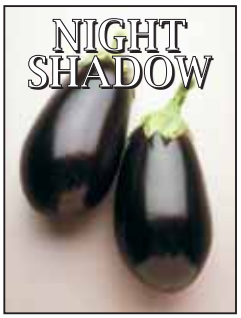












Hybrid Eggplant

Variety	Relative Days (TP)	Fruit Shape	Fruit Size (LxW)	Fruit Color	Plant	Disease		Features
Millionaire	50	Long Cylindrical	10x2”	Glossy Black	Medium Upright		M	Extra early with very good fruit quality. Fruit is long glossy black with a purple calyx.
Money Maker II	60-65	Long Oval		Glossy Black	Semi Upright		M	Early maturity. Long, oval fruit, glossy black with purple calyx. Japanese-type; semi upright habit.
Epic	64	Tear Drop	8.25x4”	Deep Purple-Black	36” Upright		M	Early maturity and high yield potential. This strong, upright plant is widely adapted.
Black King	65-70	Tear Drop		Glossy Black	Semi Upright		M	A vigorous, high yielding suited for greenhouse and open field production. Excellent texture.
Black Bell	68	Round Oval	6x3.5”	Glossy Deep Purple-Black	28” Tall	TMV(r)	M	Early mid-season maturity. Excellent fruit quality and high yield potential.
Classic	Early/ Main	Elongated Oval	7-8” Long	Glossy Purple-Black	Upright Vigorous		M	A widely adapted reliable producer that provides premium quality fruit with excellent shelf life.
Night Shadow	68	Tear Drop	8x3.5”	Glossy Deep Purple-Black	Upright	TMV(r)	M	Very productive plants. Excellent quality fruit with attractive, very glossy black appearance.

Please See Price List For Additional Varieties Which May Be Available

FLOWERS

























Bachelor Button

Variety	Color	Plant Height	Flower Size	
Dwarf Blue Jubilee Gem	Blue	12-16 in	1-2”	L
Polka Dot Mix LZ	Blue, Pink, Purple & White	12-18 in	1-2”	L
Tall Single Pink	Pink	12-18 in	1-2”	L
Tall Single Red	Red	12-18 in	1-2”	L
Tall Single White	White	12-18 in	1-2”	L

Cosmos

Sensation Mix	Lavender, Pink Magenta and White	4-5 ft	1-3”	L
Daydreamer	Pink & White Flower	3-5 ft	1-3”	L
Dwarf Red	Pink to Red	12-24 in	1-3”	L
Dwarf White	Bright White	12-24 in	1-3”	L
Dwarf Pink	Pink	12-24 in	1-3”	L

Poppy

Mission Bells	Orange, Red, Pink Yellow & White	2 ft	1-1¼”	L
Orange	Bright Orange	12-16 in	1-1¼”	L
Red Chief	Red & Orange Blooms	12-18 in	1-1¼”	L
Red Mikado	Red & Orange Blooms	6-12 in	1-1¼”	L
Shirley Single Mix	Shades of Red, Pink & White	18-24 in	1-1¼”	L

Zinnia

California Giants Mix	Red, Violet, Yellow Orange & White	2-3 ft	4-6”	L
Orange	Orange	2-3 ft	4-6”	L
Pompon Mix	Pink, Yellow, White & Red	2 ft	2”	L
Red	Red	2-3 ft	4-6”	L
State Fair Mix LZ	Lavender, Orange, Rose, White & Yellow	48-60 in	4-6”	L
Sun Cherry	Cherry Red	1-3 ft	3”	M
Thumbelina Mix	Pink, Violet White & Yellow	2-3 ft	1-1¼”	L
Violet	Violet	2-3 ft	4-6”	L
White	Bright White	2-3 ft	4-6”	L

Please See Price List For Additional Varieties Which May Be Available

L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites



Sunflowers

Variety	Color	Plant Height	Flower Size	
Autumn Beauty	Bright Yellow, Bronze, Red & Bi-Color	7-10 ft	4-7”	L
Features: Long stemmed, multi-branching variety.				
Florenza LZ	Red & Yellow Flowers with a Dark Center	4-5 ft	3-5”	M
Features: Uniform, excellent for cut flowers or borders.				
Lemon	Pale Yellow	5-6 ft	2.5-6”	M
Features: Multi-branching, early and continuous blooming.				
Lemon Queen	Pale Yellow with Dark Centers	6-10 ft	5-6”	L
Features: Tall variety that can be used for cut flowers or borders. Holds well when cut.				
Mammoth Gray Striped	Yellow Blooms, with Dark Centers	8-10 ft	8-12”	L
Features: Standard tall variety. Late maturing.				
Mardi Gras	Yellow, Bronze & Orange	4-7 ft	3-8”	L
Features: Nice blend of varieties. Full color border for all seasons.				
Premier Light Yellow	Pale Yellow,	2-2.5 ft	6-12”	M
Features: Uniform height. Continuously blooming. Good for cut flowers, borders or potting.				
Red	Red with Yellow Highlights	3-4.5 ft	3-6”	M
Features: Early variety. Longest blooming variety in our trials. A favorite with bees.				
Red Sun	Red/Orange Flowers with Dark Centers	5-7 ft	4-6”	L
Features: Compact bushy dwarf plant. Good variation of flower colors				
Ring of Fire LZ	Tri-Colored: Yellow Tipped Red Flowers, Dk Centers	4 ft	6”	M
Features: AAS Winner! Multi-branching, non-pollen type. Late maturing.				
Soraya	Golden Orange with Dark Centers	6 ft	4-6”	M
Features: AAS Winner! Non-pollen type w/ multi-branching stems. Great for cut flowers.				
Teddy Bear	Double Yellow Blooms	2-3 ft	5”	L
Features: Unique!! Great for cut flowers or borders. Vibrant hues.				
Velvet Queen	Dark Colored; Burgundy, Chestnut & Bronze	5 ft	5”	L
Features: Excellent variety for darker colors. Can be used for cut flowers & borders.				







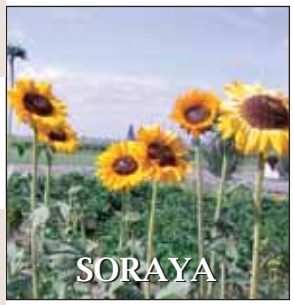
















Please See Price List For Additional Varieties Which May Be Available

GOURDS

Ornamental Gourds

Variety	Relative Days		Features
Autumn Wings - Swan (Pepo)	100	L	Unique gourd of many colors with wings, warts and the full shape of a swan. Its bulb size is 2.5-3" in diameter with a neck up to 12" long.
Autumn Wings - Medium (Pepo)	100	L	Unique gourd of many colors with wings. Fruit shape of a spoon but with wings. Bulb size is 2.5-3" in diameter with a 6" neck.
Autumn Wings - Small (Pepo)	100	L	Unique gourd of many colors with wings. Fruit shape of a swan or a pear. Bulb size is 2.5-3" in diameter with a 4 -5" neck.
Autumn Wings - Blend LZ	100	L	Mix of Autumn Wings - Small and Autumn Wings - Medium.
Apple (Lagenaria)	120	L	Shaped like an apple, but the size of a softball or larger. Dark green skin with white specks.
Birdhouse / Bottle (Lagenaria)	120	L	Bulbs are 12-14" tall by 5" in diameter, having smooth skin. Harvest green and dry with good air circulation for several months.
Bushel (Lagenaria)	120	L	Fruits are 12-18" in diameter, weighing from 30 lbs to 100 lbs. Excellent for arts and crafts when cured.
Caveman's Club - Maranka (Lagenaria)	120	L	Club shaped fruit 15-18" long and approximately 6" in diameter with a wrinkled knobby ball.
Dipper - Long Handle (Lagenaria)	120	L	Long handle approximately 2 feet long with a 5-6" bulb. Handle will grow straight if trellised.
Galaxy of Stars (Pepo) LZ	90-100	L	A five point star shaped gourd in many colors that can be mechanically washed.
Goblin Eggs (Pepo)	80	M	A delightful mixture of eggs with Shenot Crown of Thorns, Jack Be Little and Small Spoon Colorful. Maturity is quicker than other ornamental gourds.
Koshare Yellow (Pepo)	100	M	Very unique appearance. Fruit are about 4.5 inches and very uniform. Fruit colors are dark green with gold banding. Excellent color retention.
Logan's Mix (Pepo)	100	M	Our own special mix of fancy Pepo gourds. Both warted and smooth types.
Lunch Lady	100	L	Great mix of large, colorful and warted gourds that range from 5 to 20 lbs. A great addition to any stand.
Mixed - Small (Pepo)	95	L	A mixture of gourds such as Small Spoon, Pear Bi-Colored, Small Warted and others.
Mixed - Large (Lagenaria)	110	L	A mixture of Lagenaria gourds that provides a terrific group of different shapes and sizes.
Mixed - Small & Large	110	L	A mixture of both Pepo and Lagenaria gourd types.
Pear Bi-Color (Pepo)	90	L	A pear shaped fruit that is smooth and hard. Yellow on the top half and green on the bottom half.
Shenot Crown of Thorns (Pepo)	95	L	A Pepo gourd similar in shape to Crown of Thorns with a wide assortment of color combinations.
Speckled Swan (Lagenaria)	100	L	A large crooknecked gourd with a tip resembling the head of a swan. Neck is 14-18" long with a 6" base. Skin is dark green with white specks.
Small Warted - Pro Mix (Pepo)	100	L	A smaller mix with flat, round, short pears, pears & spoons. yellows, greens, oranges & fewer whites make for a brighter display.
Spoon Platoon	90	M	Unique shapes and superior plant habits, combined with excellent color retention make Spoon Platoon a great four gourd mix.
Tiny Turk	100	L	A smaller version of Turk's Turban. Consistent color and shape with good yield. Perfect for the decorative market.
Turk's Turban	100	L	An ornamental and edible squash. Attractive for displays. Keeps well.









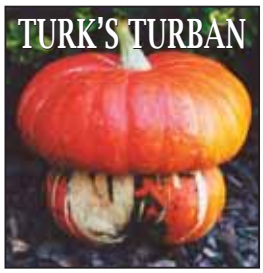








Please See Price List For Additional Varieties Which May Be Available







L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

HERBS

Herbs

Variety	Appearance		Features
Anise	Rich Green Resembles Parsley	L	Grown primarily for its licorice flavored seeds used in teas, baked goods and desserts. The fresh leaves can be used in salads or as a garnish.
Arugula - Roquette	Bright Green With Lobed Leaves	L	Tangy salad green with a sharp, nutty flavor. This annual is fast growing and hearty.
Basil - Italian Large Leaf	Broad Oval Leaves Medium Dark Green	L	Annual plant 3-4" in length with spicy flavor and aroma.
Basil - Lemon	Fine Leaf Medium Green	L	This lemon scented basil has medium sized, pointed, yellowish-green leaves.
Chives	Dark Green Long Stemmed	L	Narrow, grassy leaves with mild onion-like flavor and lavender pink blossoms. This is a perennial that grows 6-12" tall.
Chives - Garlic	Slender/Flat Dark Green	L	White blooming perennial with mild garlic flavor.
Coriander - Calypso	Dark Green Broad Leaves	L	Amazing bolting tolerance and is at least three weeks slower to bolt than standard varieties. Calypso has harvest flexibility with a much lower growing point allowing rapid regrowth.
Coriander - Leisure	Deep Green Broad Leaves	L	Annual plant with deep green, finely cut leaves. Grows up to 16". This variety is very aromatic. Glossy leaves. Selected slow bolting strain.
Coriander - Long Standing	Deep Green Broad Leaves	L	Long standing type. High yields. Slow to bolt. Glossy leaves.
Coriander - Santo	Deep Green Broad Leaves	L	A fast growing yet remarkably slow bolting strain offering up to twice the yield of Moroccan strains. For Mexican and Oriental cooking.
Dill - Bouquet	Dark Green Foliage	L	A 68 day vigorous plant.
Dill - Long Island Mammoth	Very Fine Leaves	L	A 70 day variety that grows 24-30" tall.
Fennel - Fino	Large Bulb With Feathery Foliage	M	This succulent annual is anise flavored. Bulbs are creamy white. Variety has good bolt tolerance.
Fennel - Orion F1 (Florenze type)	Large Round Bulb	M	Very uniform 80-82 day plant that is bolt and tip burn tolerant.
Lavender	Lilac-Purple Flowers Silvery Foliage	L	Fragrant herb for use in sachets and potpourris. Plants grow 18-36" tall and produce a profusion of lilac-purple flowers on silvery foliage. Perennial.
Oregano - Vulgare	Bright Blue-Green	L	This perennial is used both fresh and dried. Plants grow to two feet tall.
Sage	Blue-Green	L	Broad leafed perennial with pungent flavor.
Sorrel - Large Leaf	Long Green Leaf	L	A perennial with lemon flavor. A vigorous grower in full sun.
Summer Savory	Broad Leaf	L	An annual with fragrant small leaves. A pleasant peppery flavor.
Thyme	Silver-Green Bushy	L	This is a highly aromatic perennial with many uses.

Please See Price List For Additional Varieties Which May Be Available

KALE

Hybrid Kale

Variety	Relative Days	Leaf Appearance	Plant Size		Features
Winterbor	55	Blue-Green	18-24"	M	A vigorous, winter hearty variety with finely curled leaves. Tall stems allow for easier stripping.
Reflex LZ	60	Dark Green	36"	M	High quality leaf with a tighter, more highly curled leaf margin than traditional kales. Dark green leaves do not turn yellow and fall off in the Fall and Winter.
Scarlet	50-60	Dark Red	24"	M	Dark red curly leaves show more color as colder weather approaches. Can be grown to maturity for winter greens. Excellent winter hardiness at a mature stage.
Black Magic LZ	65	Dark Green/Black	36"	M	Improved plant structure with a dark green to black color. Intensely textured thin, long leaves.
Darkibor	75	Dark Green	18-24"	M	This finely curled, uniform variety holds well after cutting. Overwinters and leaves resist yellowing.
Redbor	75	Dark Red	36"	M	This decorative kale will overwinter and has excellent bolt tolerance. Tall standing type. Redness and curling enhanced by cold weather.

KALE (Cont.)

Open Pollinated Kale

Variety	Relative Days	Leaf Appearance	Plant Size		Features
Vates Blue Curled	55	Dark Green Finely Curled	14-15”	L	This upright, hearty plant resists yellowing and is slow to bolt.

Please See Price List For Additional Varieties Which May Be Available

KOHLRABI

Hybrid Kohlrabi

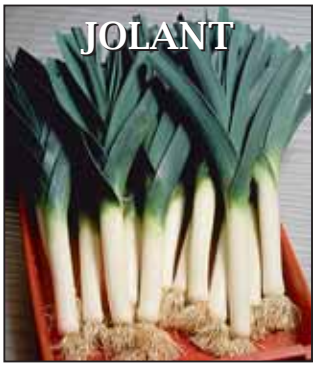
Variety	Relative Days	Shape	Color		Features
Kongo	55	Flat Globe	Pale Green	M	Early, mild, sweet flavor and crisp texture. Good uniformity. Holds well without becoming woody.
Grand Duke Improved	56	Semi-Globe	Light Green	M	This AAS winner produces smooth, round, uniform bulbs. It is quick maturing and tolerant to black rot
Winner	60	Semi-Globe	Pale Green	M	Excellent yield of medium-early maturing smooth and uniform bulbs. Late Summer to Fall growing season.

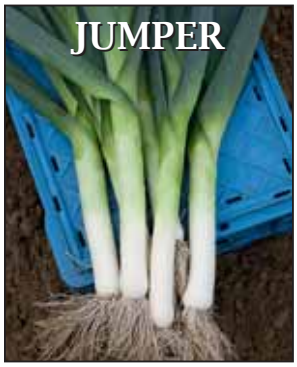


Please See Price List For Additional Varieties Which May Be Available

LEEK









Leek

Variety	Relative Days	Size	Color/ Shape	Disease		Features
Lancia OG	80	10-12”	White Shaft, Medium Green Flag		M	Early leek with medium green leaves and excellent uniformity. Plant early Spring for Summer harvest. Organically produced.
Jolant	90	10-12”	White Shaft, Blue-Green Flag		M	Summer and Fall leek with nice blue-green color and long shaft. Very productive, no bulbing at the base.
Jumper LZ	98	28" Overall	Cylindrical Stem Blue-Green Flag		M	Very uniform, excellent upright leaf habit. Very hardy and holds well. Very high quality.
Bandit OG	120	7”	White Shaft, Dark Blue-Green Flag	YSV(t)	M	A highly productive variety for Fall and early Winter harvest. Tolerant to cold temperatures. Organically produced

Please See Price List For Additional Varieties Which May Be Available

LETTUCE

Iceberg Lettuce

Variety	Relative Days	Head Size	Head Color	Disease		Features
Declaration NEW	65-70	Large	Green	DM, Rs, TB	M	Large head with dense interior. Strong, protective frame and dark green color works well for fresh market.

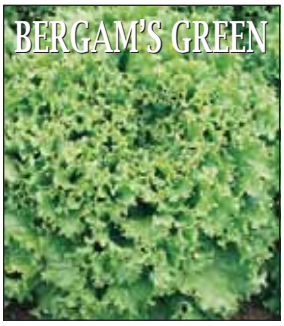
Please See Price List For Additional Varieties Which May Be Available

L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

LETTUCE (Cont.)

Green Leaf Lettuce

Variety	Relative Days	Head Size	Head Color	Disease		Features
Bergam's Green MI NEW	58	Large	Glossy Dark Green	TB(t), CRR(r)	M	Bergam's Green has a large frame and dark green color. Excellent tip burn tolerance and good field holding ability.
Sandy	58	Large Dark Green	Glossy	PM, TB, DM	M	Sandy is an attractive oakleaf with a multitude of sweet tasting frilly dark leaves. Has good disease resistance and heat tolerance.









Red Leaf Lettuce

Variety	Relative Days	Head Size	Head Color	Disease		Features
New Red Fire MI LZ	55	Large	Deep Red		M	Good uniformity and attractive color. Widely adapted variety that is slow to bolt. Leaves are frilled.

Romaine Lettuce

Variety	Relative Days	Head Size	Head Color	Disease		Features
Darkland Cos MT	72	Medium Large	Dark Green	TB(t)	M	Excellent color and uniformity. Produces a very dense, heavy head. Maintains quality in the field over a long period.
Parris Island Cos MI	72	Medium Large	Medium Green	TB(t)	M	Standard variety. Tall, upright plant with slightly savoyed leaves. Slow to bolt.
Green Towers MI	74	Large	Dark Green	TB(t)	M	Excellent weight with large, full-bodied heads. Widely adapted variety with a consistent performance record.

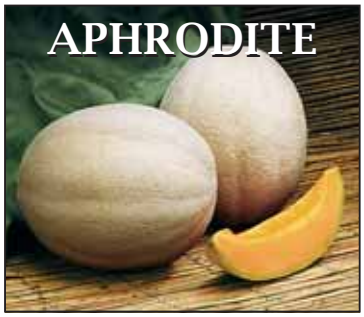
Butterhead Lettuce

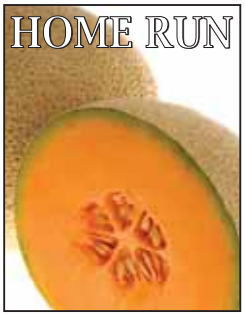
Variety	Relative Days	Head Size	Head Color	Disease		Features
Sangria MT	65	Medium Large	Red-Green Interior	DM; LMV; TB	M	A striking and versatile red butterhead. Vivid red leaves that transition into a delicate green interior. Good bolt tolerance.
Bennett MT	65	Large	Dark Green	DM1-17;21;23; Bolting	M	Large frame, flat butt and dark, glossy leaves. Excellent texture & weight. Holds nicely in the field. Trials harvested into late October.

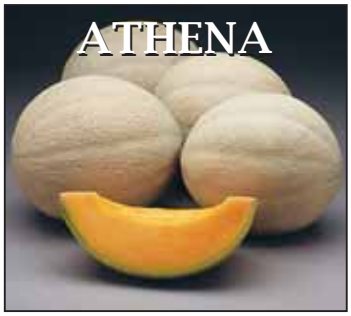
Please See Price List For Additional Varieties Which May Be Available



MELONS





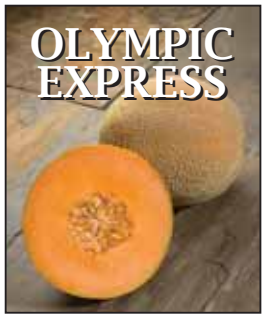


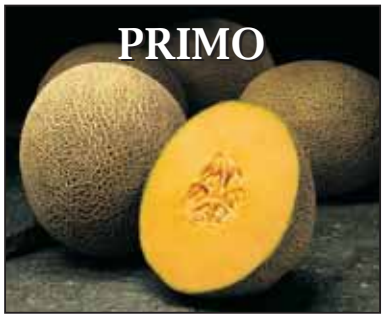


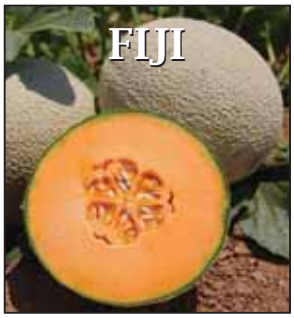
Hybrid Eastern Types

Variety	Relative Days	Weight Size	Net Sutures	Rind Color	Flesh Color	Disease		Features
Aphrodite	72	6-7 lbs Oval	Coarse Net Light Sutures	Tan	Orange	F01,2, PM1,2,3	M	Early maturing with size. Fruits have firm flesh with good flavor. Good shipper.
Home Run	74	6-8 lbs Oval	Coarse Net No Sutures	Tan	Orange	PMR, FWR:0, 1&2	M	Comparable to Athena. Good yield potential and performs well in cool & rainy conditions.
Athena LZ	75	5-6 lbs Oval	Coarse Net Light Sutures	Tan	Orange	F01,2, PM1,2,S	M	Athena's attributes are unique flavor, shelf life and high quality fruit. Good shipper.
Atlantis	75-80	4-5 lbs Oval	Full Fine Net Shallow Sutures	Tan	Orange	R: Fom:0-2/SF:1 IR: SF:2	M	Excellent flesh quality including firmness & high sugar content. Shipper or farm market.
Minerva	78	7-8 lbs Oval	Coarse Net Med. Sutures	Tan	Orange	F01,2, PM2	M	Slightly larger than Athena with a strong, vigorous vine & excellent disease tolerance.
Hannah's Choice	80	3-5 lbs	Medium Net Deep Sutures	Tan	Salmon	PM, PRSV, DM, ZYMV, WMV	M	Outstanding flavor and sweetness makes this a crowd favorite. Good storing ability.









Hybrid Western Shippers

Variety	Relative Days	Weight Size	Net Sutures	Rind Color	Flesh Color	Disease		Features
Alaniz Gold	Main	9's	Full Net Round-Oval	Tan	Orange	HR: Fom1-2\SF:1 IR: SF:2	M	Excellent firmness and brix, healthy strong vine with good PM's & Fusarium resistance.
Olympic Express LZ	65-70	3-4 lbs Round-Oval	Full Net Shallow Sutures	Tan	Orange	R:SF:1,2 IR: Fom:0,2	M	Great taste, excellent firmness and interior color. Early maturing, fresh & cut markets.
Primo	77	3.5-4 lbs Oval	Full Net No Sutures	Tan	Med-Dark Orange	PM(r)1,2, S(t)	M	Delivers size and sugar content. Well adapted to the Pacific Northwest.

Please See Price List For Additional Varieties Which May Be Available

Hybrid LSL/Harper

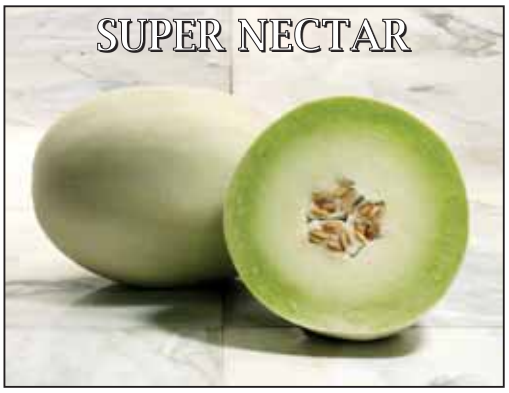
Variety	Relative Days	Weight Size	Net Sutures	Rind Color	Flesh Color	Disease		Features
Fiji	Mid-Season	Large 9's	Full Net No Sutures	Tan	Dark Orange	Fom(hr)0,2 Px(ir)1,2	M	Good shipping ability without sacrificing flavor, excellent holding & can pick at or near full slip.

Please See Price List For Additional Varieties Which May Be Available

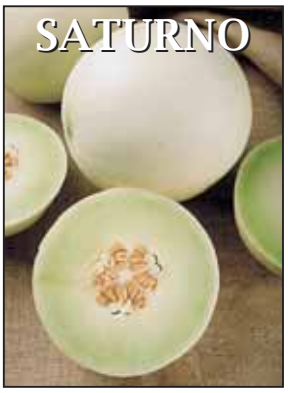
L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

MELONS (Cont.)







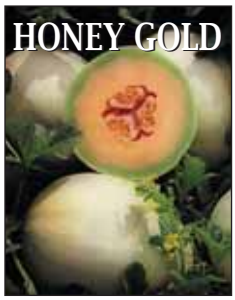


Hybrid Honey Dew - Green Flesh

Variety	Relative Days	Weight Size	Net Sutures	Rind Color	Flesh Color	Disease		Features
Earli-Dew	75	2.5-3 lbs Round	Smooth No Sutures	Creamy Green	Lime Green	F2	M	Produces delicious, green fleshed, smooth skinned melons. Early maturity.
Super Nectar	Mid-Season	5's & 6's Round Oval	Smooth No Sutures	Creamy White	Green	F(r), PM(ir)	M	Excellent main season honeydew w/ dense flesh. Vigorous vines protect from sunburn.
Santa Fe	80	5-6 lbs Slightly Oval	Smooth No Sutures	White	Light Green To White	F(r)0,2	M	Santa Fe has a very high quality interior with a small seed cavity. Brix were 14.6 in our trials.
Saturno	80	5-6 lbs Round	Smooth No Sutures	Creamy White	Light Green	PM(r)1, F(r)0,2	M	Very high yield potential. Small seed cavity, firm flesh for good shipping.

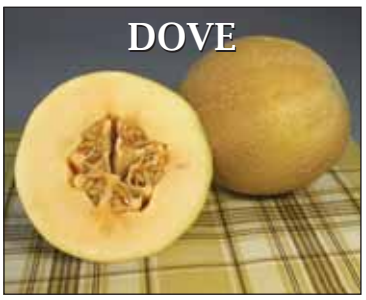
Hybrid Honey Dew - Orange Flesh

Variety	Relative Days	Weight Size	Net Sutures	Rind Color	Flesh Color	Disease		Features
Honey Gold	80	5-6 lbs Round	Smooth No Sutures	Lime Green	Salmon	F(r)0,2 PM(t)1	M	Concentrated set of uniform size melons with great yields. Brix were 15.2 in our trials.









Hybrid Melon - Personal

Variety	Relative Days	Weight Size	Net Sutures	Rind Color	Flesh Color	Disease		Features
Lilliput LZ	Early-Mid	18's & 15's Round	Open Net, Smooth	Tan	Dark Orange	HR: Fom:0-2 Sf:1,2	M	Unique personal size with excellent flavor & interior. Fresh market or home garden.

Hybrid Tuscan Type

Variety	Relative Days	Weight Size	Net Sutures	Rind Color	Flesh Color	Disease		Features
Dione	Main	3-4lbs. Round	Netted Green Sutures	Tan	Orange	F:0,2	M	High quality fruit with tight cavity, firm flesh and very sweet flavor. Brix averaging 13.

Hybrid Ananas

Variety	Relative Days	Weight Size	Net Sutures	Rind Color	Flesh Color	Disease		Features
Dove (Premium)	70	3-4lbs. Round	No Sutures Sparce Netting	Tan/ Yellow	Cream		M	Early maturity & exceptional eating quality. Brix a 14 in trials. A must for roadside stands.

Please See Price List For Additional Varieties Which May Be Available

MELONS (Cont.)

Hybrid Crenshaw

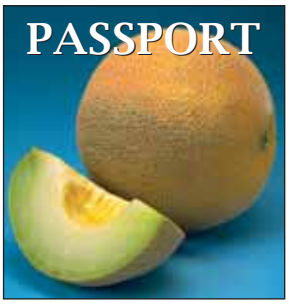
Variety	Relative Days	Weight Size	Net Sutures	Rind Color	Flesh Color		Features
Burpee Early Hybrid	81	6-8 lbs Oval	Corrugated No Sutures	Yellowish Green	Peach Pink	M	Firm, thick flesh and super early for a Crenshaw type melon. Excellent eating quality.
Crenshaw	Main	6-10 lbs Pear Shaped	Corrugated Skin	Green to Yellow	Salmon Pink	L	Vigorous productive plant, corrugated green to yellow skin, pear shaped with salmon pink flesh.

Hybrid Canary

Variety	Relative Days	Weight Size	Net Sutures	Rind Color	Flesh Color		Features
Fonzy LZ	Main	8 & 6's Round	Slightly Wrinkled	Orangish-Yellow	White	M	Round melon with slightly wrinkled skin. Strong plant with high fruit set. Harvest when golden color.







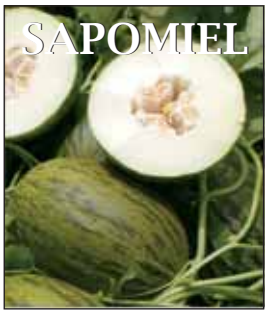
Hybrid Galia

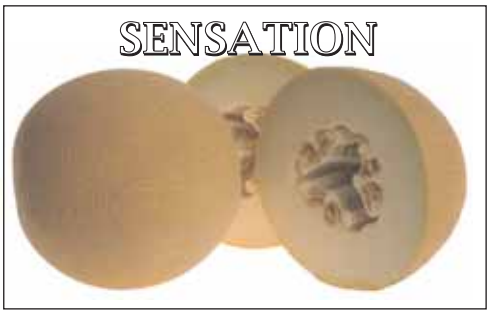
Variety	Relative Days	Weight Size	Net Sutures	Rind Color	Flesh Color	Disease		Features
Passport (Premium)	75	5-6 lbs Round	Medium Net No Sutures	Tan	Green	PM(r)1, F(r)0,2	M	Early galia type with thick, firm flesh. Very sweet flavor. Brix were 11 in our trials.
Visa (Premium)	80	4-5 lbs Round	Medium Net No Sutures	Tan	Green	PM(t)1,2	M	Excellent eating quality. Brix were 12.5 in our trials. Plant is very productive with a strong vine.

Hybrid Piel De Sapo

Variety	Relative Days		Features
Sapomiel	90	M	Sometimes called Christmas melon. Sapomiel is oval in shape, weighing approximately 3.5 to 4.5 lbs. Medium green rind pattern with dark green spots. When mature, the rind will be green with yellow reflections. The flesh is white and very sweet with Brix commonly ranging between 14 and 16. Good shipping ability with shelf life up to 45 days when stored properly.







Hybrid Specialty

Variety	Relative Days	Weight Size	Net Sutures	Rind Color	Flesh Color	Disease		Features
Sensation (Premium)	85	5.5-6 lbs Round	Sparse Netting	Green Yellow and Orange	White	PM, F(r)0-2	M	Unique melon with amazing taste, texture, sweetness and aroma. High yield potential.

Please See Price List For Additional Varieties Which May Be Available

L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

MUSTARD

Mustard

Variety	Relative Days	Size	Leaf		Features
Florida Broadleaf	45	Large	Round Medium Green	L	A widely adapted, vigorous variety. Leaves have serrated margins.
Green Wave	50	Large	Dark Green	L	Heavy curled leaves with frilled margins. A slower bolting Southern Giant type.

Please See Price List For Additional Varieties Which May Be Available

OKRA

Hybrid Okra

Variety	Relative Days	Plant	Pod		Features
Jambalaya	Early	Compact w/ Small Leaves	Shiny Dark Green	L	Extra-early maturing variety with a very compact plant habit and small leaf. This variety offers high yield of uniform dark green shiny fruit.

Please See Price List For Additional Varieties Which May Be Available

ONIONS



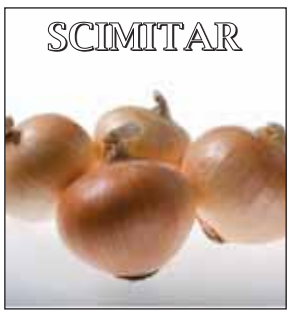




Hybrid Intermediate Types

Variety	Relative Days	Shape	Size	Color	Storage Potential	Disease		Features
Highlander T-803	85	Globe	Large Jumbo	Medium Brown	Short		M	An early maturing hybrid with excellent yield potential. Bulbs are uniform, large-jumbo size with small necks.
Candy	95	Globe	Large Jumbo	Golden	Short	PRR(r)	M	Very popular and widely adapted. Early with mild flavor and small neck. Direct seed or transplant.
Scout 4242	100	Globe	Colossal	Copper Brown	Mid 3-4	PRR(t), F(t), B(t)	M	Nice copper brown scale that holds up well to mechanical harvest. Shows good tolerance to Pink Root & Fusarium.
Salute	100	Globe	Colossal	Golden Brown	Mid 3-4	PR(Hr), F(Ht), B(Ht)	M	Salute is a great intermediate variety with nice golden brown scales and cuts well.
Scimitar	107	Globe	Colossal	Golden Brown	Mid 3-4	PR(Ht), F(Ht), B(Ht)	M	Scimitar produces a nice firm flesh, mechanically harvestable onion. High percentage of single centers.
Great Western	105-110	Globe	Jumbo Colossal	Brown	Mid	F(IR), PRR(IR)	M	Very grower friendly. Good firmness with excellent skin retention. Cuts well.
Ovation	110-115	Globe	Jumbo Colossal	Brown	Short	PRR(t), FBR(t)	M	Late intermediate yellow that transitions into a long day Spanish type. Cuts high centers and very mild.







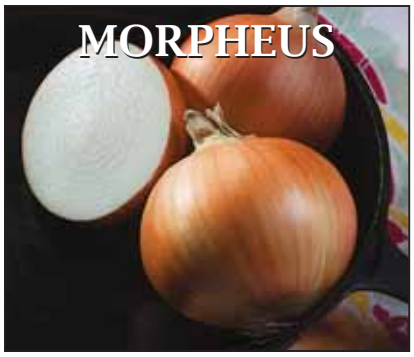


Please See Price List For Additional Varieties Which May Be Available

ONIONS (Cont.)







Hybrid Spanish / Hard Globe Types

Variety	Relative Days	Shape	Size	Color	Storage Potential	Disease		Features
Cruiser	115	Deep Globe	Jumbo	Dark Brown	Long	PRR(IR),	M	Consistent jumbo size with a deep globe shape. Excellent yield potential and high bolt tolerance.

Please See Price List For Additional Varieties Which May Be Available







Hybrid Full Spanish Types

Variety	Relative Days	Shape	Size	Color	Storage Potential	Disease		Features
Milestone T-441	110	Globe	Jumbo Bronze	Dark Bronze	Long		M	Tamara type with earlier maturity and single centers. Excellent bolting tolerance.
SV6672NW	116	Globe	Jumbo Colossal	Bronze	Long	F(IR), PRR(IR)	M	Hybrid with high yield potential, jumbo bulb size and refined neck structure.
SV6646NW	120	Globe	Jumbo Colossal	Dark Brown	Long	F(HR) PRR(HR)	M	Great multi-purpose hybrid with an attractive scale and high yield potential.
Swale	120	Blocky Globe	Colossal	Dark Bronze	Mid	FBR(r), PRR(r)	M	This true Spanish type produces uniform globes with good color and scale cover.
Morpheus 209	120	Globe	Super Colossal	Copper Brown	Mid	PRR(t), FBR(t), B(t)	M	Dark scaled, high yielding Spanish hybrid that cuts well. Has a strong root and upright tops.
Aruba	115-120	Globe	Jumbo Colossal	Brown	Mid	PRR(ir), FBR(ir)	M	Grower friendly and adaptable, globe shaped, cuts well. Offers good yield and stores well. Low pyruvics.
Dulce Reina 450	118-125	Blocky Globe	Jumbo Colossal	Bronze	Long	PRR(hr)	M	Good yielder. Adaptable & grower friendly. Strong tops and root system. Mild pungency.
Barbaro EX 16064	120-122	Globe	Jumbo	Bronze Colossal	Mid	PRR(r)	M	Exceptional yield potential, highly single centered. McCain approved variety.
Advantage 05-N5	130	Tall Globe	Super Colossal	Golden Brown	Mid	PRR(t), FBR(t), B(t)	M	Very resilient with strong tops & good root system. Later season Spanish yellow with a taller globe shape bulb.

Please See Price List For Additional Varieties Which May Be Available

ONIONS (Cont.)





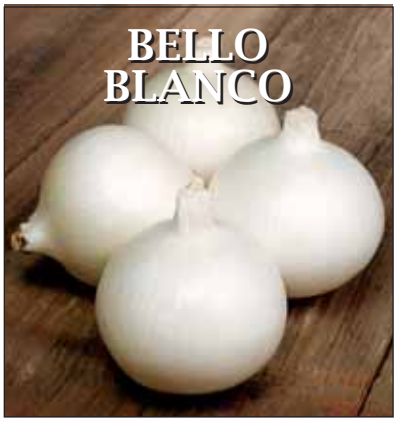


Hybrid Reds

Variety	Relative Days	Bulb Shape	Grade Size	Skin Color	Storage Potential	Disease		Features
Red River (Int)	105	Globe	Jumbo	Red	Short/Mid	PRR(t), FBR(t), B(t)	M	Highly adaptable onion with a strong root system and dark red color. High yield potential and a firm globe.
SV4643NT (LD)	105	Globe	Large Jumbo	Dark Red	Mid	F(HR), PRR(IR)	M	Early hybrid, good size potential and vigorous tops. Replaces the Mercury red onion variety.
RB 14593 (LD)	115	Blocky Globe	Medium Jumbo	Dark Red	Long 5		M	Excellent internal and external colors. Highly single centered.
Red Devil (LD)	118	Globe	Jumbo	Dark Red	Long 6	FBR(t), PRR(t), B(ht)	M	Maintains a dark red interior & exterior. Boasts a high percentage of single centered onions that are uniform.
Red Defender (LD)	125	Globe	Large	Very Dark Red	Long	PRR(t)	M	A full season red onion with high yield potential and good color to the center. Very uniform.







Hybrid Whites

Variety	Relative Days	Bulb Shape	Grade Size	Skin Color	Storage Potential	Disease		Features
Sierra Blanca (Int)	95	Globe	Jumbo Colossal	White	Short	PRR(r)	M	Very early with good size and uniformity. Excellent onion to open up with. Excellent quality.
SV4058NU (LD)	115	Globe	Large Jumbo	White	Long	F(IR), PRR(HR)	M	A hybrid with outstanding white scale color, good bolt tolerance and excellent storage potential.
White Cloud (LD)	115	Tall Globe	Jumbo Colossal	White	Mid	PRR(t) FBR(t), B(t)	M	Vigorous tops and strong roots make it extremely productive. A brilliant white color with a globe shape.
174 (LD)	120	Globe	Jumbo	White	Long	PRR(r), F(r)	M	Matures at 120 days with large size and good resistance to Pink Root and Fusarium. Excellent storage.
Bello Blanco XON 670W (LD)	118-125	Globe	Large	White Jumbo	Mid	PRR(t), FBR(t)	M	Bello Blanco has good firmness and skin retention. This variety is competitive, grower friendly with single centers.

Please See Price List For Additional Varieties Which May Be Available

(Int) = Intermediate (LD) = Long Day (SD) = Short Day

ONIONS (Cont.)

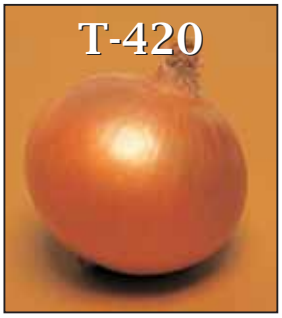
Hybrid Whites

Variety	Relative Days	Bulb Shape	Grade Size	Skin Color	Storage Potential	Disease		Features
Brundage OLWS 8303 (LD)	125	Tall Globe	Jumbo Colossal	White	Mid	PRR(t), FBR(t), B(t)	M	Produces a taller globe shape onion and has an erect top. Cuts high single centers.
White Castle 2103 (SD)	170-175	Globe	Jumbo	White	Short/Mid	PRR(ht), FBR(ht), B(t)	M	An eye catching white scale that makes you take note of this brilliant white main to late season short day onion.

Hybrid Short Day

Variety	Relative Days	Bulb Shape	Grade Size	Skin Color	Storage Potential	Disease		Features
Crown	170	Globe	Jumbo Colossal	Golden Brown	2-3 Mos.	PR(Ht), F(Ht), B(Ht)	M	Cuts a very high percentage of single centers. Grower friendly and producer preferred variety.









Overwinter Types

Variety	Relative Days	Bulb Shape	Grade Size	Skin Color	Storage Potential	Disease		Features
T-420	July/ August	Globe	Jumbo Colossal	Dark Brown	Short		M	A new colossal type onion from Takii. Very large. Excellent size and yield potential.
Hi-Keeper	July/ August	Globe	Jumbo	Golden Brown	Short	DM, Botrytis(t)	M	Excellent over-winter choice in many locations. This is the standard in the Onion Industry.
Walla Walla Sweet	July/ August	Globe	Jumbo	Medium Dark	Short		M	This juicy sweet onion is a favorite choice. Widely adapted and grown throughout the Northwest.

Short-term storage = 1-2 months Mid-term storage = 3-4 months Long-term storage = 5+ months

Please See Price List For Additional Varieties Which May Be Available

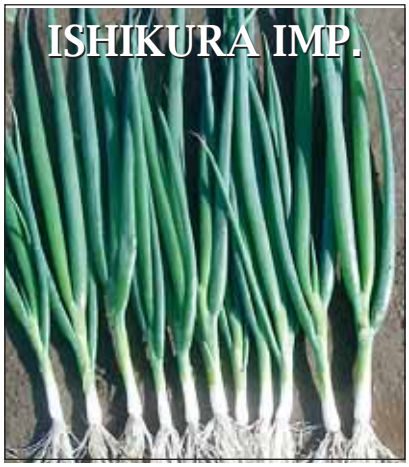


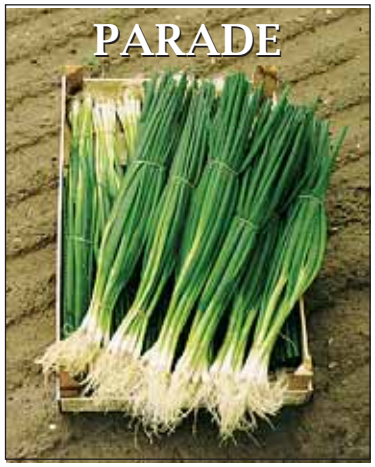
L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

ONIONS (Cont.)









Onions - Bunching

Variety	Relative Days	Flag Color	Shank Size		Features
Performer	58	Dark Green	Long	M	A vigorous compact plant with erect tops. Very tolerant to bolting.
Green Banner	60	Medium Dark Green	3-4”	M	Early maturing with excellent quality and yield potential. Upright single stem with medium dark green color.
BO #10	Early	Dark Green	3-4”	L	High quality stocks with an attractive dark green color. Matures early due to its vigorous top. Great for any market.
Ishikura Improved	66	Medium Dark Green	3-4”	L	Our most popular bunching onion. Single stemmed stalks with excellent white color. Widely adapted, good shipper. Pungent.
Parade	75	Dark Green	3”	M	A vigorous, upright bunching onion with dark green stalks and a mild onion flavor.

Please See Price List For Additional Varieties Which May Be Available

PARSLEY

Parsley

Variety	Relative Days	Leaf Type	Color		Features
Dark Green Italian	65-70	Plain, Flat Moderately Cut	Glossy Dark Green	L	Wide leaf type with broad, smooth, shiny leaves. More erect and flavorful than Plain Green Italian.
Forest Green	70-75	Triple Curled	Dark Green	L	A finely cut, uniform and erect variety that is vigorous and holds well in hot weather. Good re-growth after multiple harvests.

Please See Price List For Additional Varieties Which May Be Available

PARSNIP

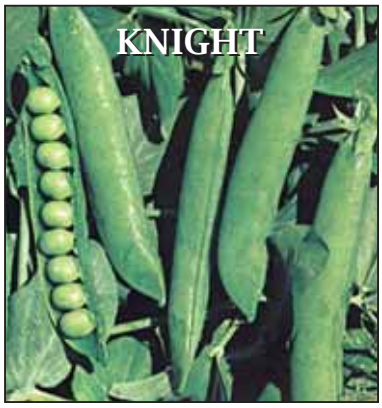
Parsnip

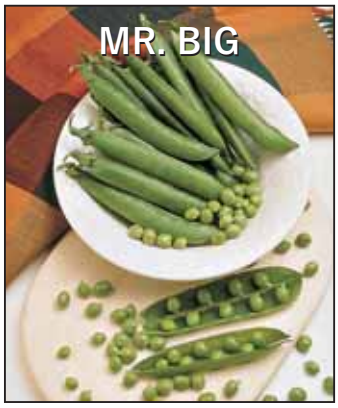
Variety	Relative Days		Features
Harris Model	120	L	Smooth skinned, tapered 12” roots with minimum side shoots. White, tender interior.
Albion F1	120	M	Nicely tapered long white roots similar to Javelin but noticeably whiter skinned. MINIMUM SEED ORDER 250M SEEDS.



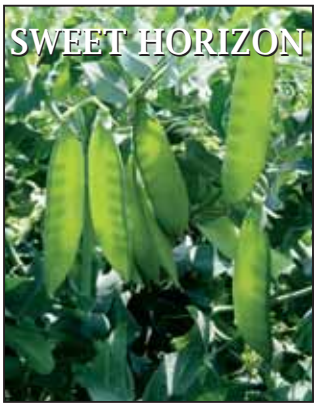
Please See Price List For Additional Varieties Which May Be Available

PEAS









Peas - Garden (Shelling)

Variety	Relative Days	Vine (Approx)	Peas Per Pod	Pod Size Color	Disease		Features
Knight	58	24”	7-8	4” Dark Green	CW(r), PM(r), PeaMV(r)	L	Excellent early fresh market pea with high yield potential. Multiple disease package.
Progress #9	62	18”	6-8	4” Dark Green	CW(t)	L	Standard early fresh market and home garden variety. Produces flavorful large sized peas.
Mr. Big	70	30”	9-10	5” Dark Green	F-1, PM	L	AAS Winner! Fresh market pea with 8-10 large peas per pod. Outstanding yield potential. Fall harvest.

Peas - Snap (Edible Pod)

Variety	Relative Days	Vine (Approx)	Peas Per Pod	Pod Size Color	Disease		Features
Sugar Sprint	61	26”	NA	3” Green	PM(t)	L	Sugar Sprint is a stringless variety and averages two pods per node. Pods are medium green, about 3” long.
Sugar Ann	63	24”	NA	2.5-3” Green	PM(r), CW1(r)	L	Very early and productive, round, fleshy, green to medium green pods.
Super Sugar Snap	66	60”	NA	4” Green	PLRV, PM	L	Earlier than Sugar Snap with added disease tolerance and larger pod size. Vines average 60”.
Sugar Daddy	72	28”	NA	3” Green	PLRV(t), PM(r)	L	Bears one to two stringless pods per node and offers resistance to Powdery Mildew.

Peas - Snow (Edible Pod)

Variety	Relative Days	Vine (Approx)	Peas Per Pod	Pod Size Color	Disease		Features
Sweet Delight	55-57	32”	NA	3.5-3.8” Med Dark Green	FBR(t), PM(r)	L	A larger edible flat podded variety with a very nice appealing medium dark green color.
Sweet Horizon NEW	62	36”	NA	3-4” Light Green	F 1, PM	L	High yielding indeterminate plant that produces two edible flat pods per node. Pods are stingless.
Oregon Sugar Pod II	68	30”	NA	4” Light Green	WPSV(t), PM(r)	L	Mild flavored, mammoth type snow pea, possessing good quality. An Oregon State University release.

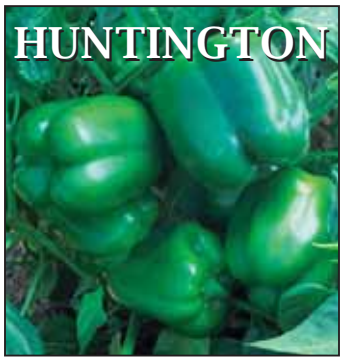
Peas - Southern

Variety	Relative Days		Features
California Blackeye	75	L	Large, smooth seed usually eaten fresh but can also be dried or pod can be eaten whole when young. Non-vining. Fusarium and Nematode resistant.

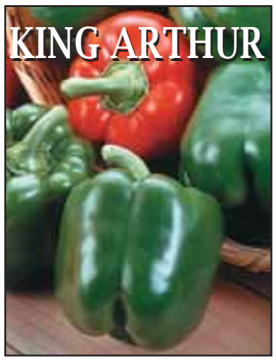
Please See Price List For Additional Varieties Which May Be Available

L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

PEPPERS - SWEET



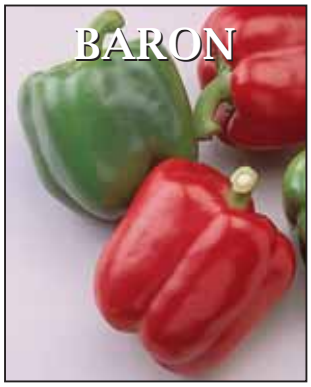


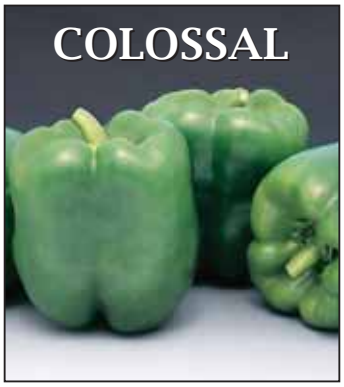


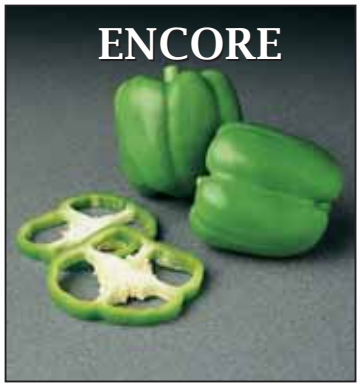


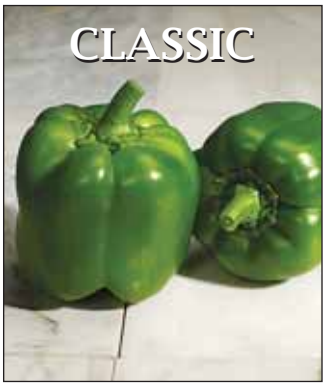
Hybrid Bell Peppers - Green to Red

Variety	Relative Days (TP)	Fruit LxW	Fruit Conformation	Plant Habit	Disease		Features
Huntington LZ	60-65 Early	4.5x3"	Blocky Lt Green to Red	Vigorous 20-24"	Tm Po(HR)	M	A blocky sweet pepper hybrid that has smooth, medium-large fruit.
Gridiron	Early	Large	Large Blocky Green to Red	Upright Good Cover	R:Tmv:0, Xcv:0-5,7-9 IR:TEV	M	Early maturity w/ high yield potential. High quality fruit with thick walls.
Early Excursion NEW	Early	Large	Blocky Green to Red	Medium	HR:Xcv:1-3, **HR:**TMV, PVY	M	Large, blocky fruit, upright habit. Very widely adapted.
King Arthur	65-70 Mid-Early	4.5x4.5"	Blocky Green to Red	Height 20-24"	Tobamo Po(r), TEV(r), BLS(r)2, PVY(r)	M	Large, blocky fruit, upright habit. Very widely adapted.









Baron	70-72 Mid-Season	4x3.5"	Deep Blocky Green to Red	Height 20-22"	Tobamo Po(r)	M	Dual use -excellent green and red for fresh market and processing.
Aristotle	72-74 Mid-Season	5x4.5"	Deep Blocky Dark Green to Red	Very Vigorous 20-24"	BLS(r),1,2,3, Tobamo Po(r), PVY(r)	M	Excellent yield potential of thick walled, large sized fruit.
Trifecta NEW	Mid-Season	Extra Large	Large Blocky Green to Red	Strong	**HR:**TMV, TSWV:0	M	.Thick walls and good yield potential. fresh market or processing.
Colossal LZ	72-74 Mid-Season	5x5"	Large Blocky Green to Red	Strong Vigorous		M	Mostly blocky, extra large fruit all season. A good NW performer.
Encore	72-74 Mid-Season	4.5x4.5"	Blocky Green to Red	Medium Height Good Cover	PVY(r), PeMV(r), Stip(t)	M	A top performer, Encore's fruit is smooth, with thick walls.
Classic	76-78	Large	Large Blocky Green to Red	Medium Good Cover	BLS(r)1-3	M	High yielding with excellent quality. Thick walls & uniform blocky fruit.

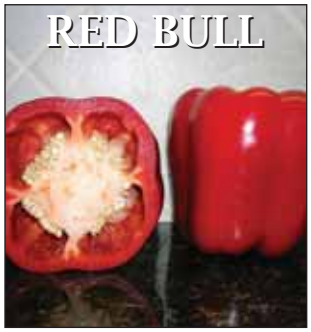
Please See Price List For Additional Varieties Which May Be Available

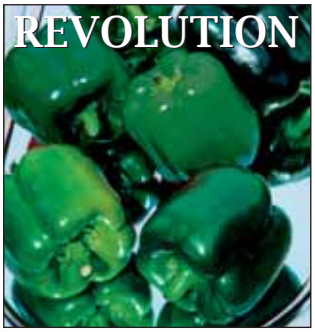


PEPPERS - SWEET (Cont.)

Hybrid Bell Peppers - Green to Red

Variety	Relative Days (TP)	Fruit LxW	Fruit Conformation	Plant Habit	Disease	Features
Red Bull	76-78	Large	Large Blocky Green to Red	Strong Excellent Cover	BLS(r)1-3	M Excellent cover. Strong heavy 4 lobed sets. Smooth & very thick walled.
Revolution	72-74 Mid-Season	5x5"	Blocky Green to Red	Vigorous Good Canopy	BLS(r)1,2,3,5, PHY(r), TMV	M High concentrated early set for good yield potential. Firm fruit. Strong plant.





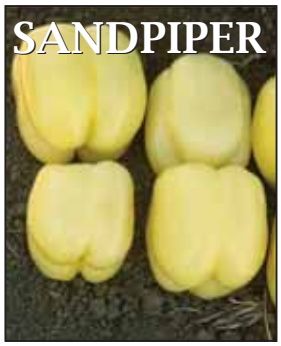




Bell Peppers - Mixed Colors

Variety	Relative Days (TP)	Fruit LxW	Fruit Conformation	Plant Habit	Disease	Features
Chocolate Beauty	68-72 Mid-Early	4x3.5"	Deep Blocky Green to Chocolate	20-24"	Tobamo Po(r)	M Mature fruits turn an attractive chocolate color. Very sweet.
Early Sunsation F1	68-72 Mid-Early	4x4"	Blocky Dk Green to Yellow	18-22"	BLS(r) 1,2,3	M Produces large, attractive fruit that turns from dark green to yellow.
Sandpiper F1 LZ	Mid-Season	Blocky	Blocky Blond to Red	Medium Tall Good Cover	R: BBS 1-3	M Creamy blond to red. Smooth thick walled mainly 4-lobed. Vigorous plant.
Lafayette	72-74 Mid-Season	4.25x4.25"	Blocky Green to Yellow	Compact Good Cover	BLS(r)1,2,3, PVY(r), PeMV(r)	M Provides mostly extra large fruit size when harvested green or yellow.
#8620	73 Mid-Season	Blocky	Blocky Green to Yellow	Medium-Large	Xcv(hr)1-3, PVY(hr), TMV(hr)	M A high quality green to yellow blocky bell. Very smooth & attractive fruit.
Tabby	72-76 Mid-Season	4.5x3.75"	Blocky Green to Yellow	Compact 16-17"	BLS(t)1,2,3, PVY(t), TMV(t)	M Good skin attachment, thick walls, 4 lobes. Flesh is moist and sweet.

Please See Price List For Additional Varieties Which May Be Available









Hybrid Lamuyo Peppers

Variety	Relative Days (TP)	Fruit LxW	Fruit Color	Plant Habit	Disease	Features
Maccabi	70-74 Mid-Season	Elongated	Green to Red	Vigorous Continuous Set	TEV(r)	M Excellent production of quality, large peppers. Widely adaptable.

Please See Price List For Additional Varieties Which May Be Available

L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

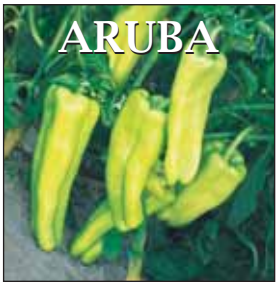
PEPPERS - SWEET (Cont.)

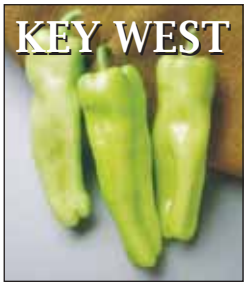
Sweet Banana Peppers

Variety	Relative Days (TP)	Fruit LxW	Fruit Conformation	Fruit Color	Disease		Features
Sweet Banana	65-70	6x1.5"	Tapering To A Point	Light Yellow to Orange-Red		M	Productive. Mainly used for fresh market and roadside stands.
Pageant F1	68-72	8x1.75"	Long, Tapering To A Point	Yellow to Red	BLS(r) 1,2,3	M	Attractive, smooth, yellow fruit with thick walls. Fresh market or processing.
Ethem F1	75-80	9x2"	Long Cylindrical	Light Yellow to Orange-Red		M	Hybrid Banana with large fruit size and incredible yields. Excellent quality.





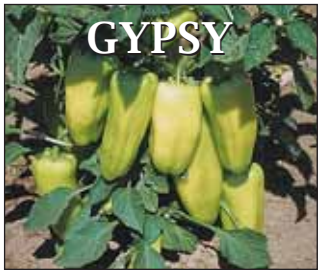




Sweet Cubanelle Peppers

Variety	Relative Days (TP)	Fruit LxW	Fruit Conformation	Fruit Color	Disease		Features
Aruba F1	60-65	7.5x2.5"	Slight Taper, Rounded End	Pale Lime Green to Bright-Red		M	Large smooth fruit with thick walls. Excellent yield potential.
Cubanelle	64-66	5.5x2.5"	Slight Taper, Rounded End	Yellow- Green to Red		M	Attractive, frying type. Fresh market and home garden.
Key West F1	68-70	7.5x2.5"	Three Lobed Rounded End	Light Green to Red	BLS(r) 1,2,3	M	The fruit are long, lime green turning red at full maturity. Widely adapted.









Sweet Specialty Peppers

Variety	Relative Days (TP)	Fruit LxW	Fruit Conformation	Fruit Color	Disease		Features
Yum Yum Mix F1 LZ	55	3-4x1"	Tapered	Light Yellow to Red		M	A beautiful combination of sweet baby red & yellow peppers. Gorgeous & great flavor.
Gypsy F1	60-65	4x2.4"	Mostly 3 Lobe, Slight Taper to Blunt End	Light Yellow to Red	TMV(r)	M	AAS Winner! Early, tasty and very productive. Widely adapted.
Cherry Pick F1 (Cherry)	65-70	1.25x1.25"	Globe Shaped	Green to Red	Tobamo Po	M	Cherry Pick boasts an outstanding yield of highly uniform fruit. Tall, strong plant.
Sweet Delilah	Med-Early	9x2.5"	Cylindrical	Green to Deep Red	TSWV	M	Marconi type with vigorous plant and high yield. Fruit are three lobed and uniform.
Kapello F1 LZ	Mid-Season	2x6"	Conical	Green to Red		M	Extremely sweet with outstanding red color. Traditional ancho size. Excellent roaster.
Fushimi Long Green	70-75	5-6" Long	Long Slender	Bright Green		M	A long sweet Japanese variety. Fruit is slender, bright green and very sweet.
Pimento	75-80	4.5x3"	Large Heart Shaped	Dark Green to Red		M	Used for home garden, popular stuffing pepper. Also for processing.
Corono Di Toro	70-80	8-10" Long	Curved Horn Shaped	Green to Red		M	"Horn of the Bull". Very attractive heirloom can be harvested at green or red stage.

Please See Price List For Additional Varieties Which May Be Available

PEPPERS - SWEET (Cont.)







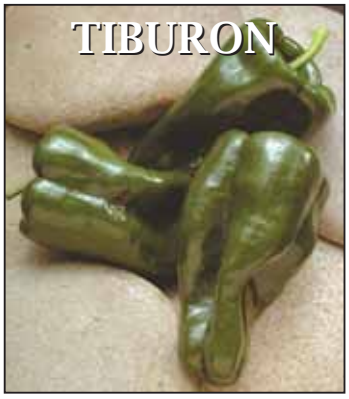


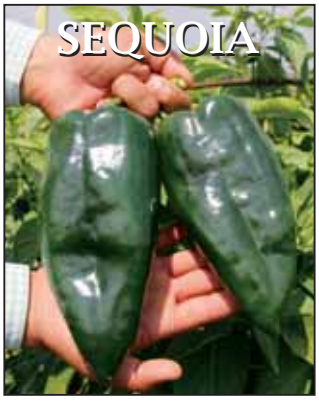
Hot Peppers - Anaheim Types

Variety	Relative Days (TP)	Fruit LxW	Fruit Conformation	Fruit Color	Scoville Rating	Disease		Features
Anaheim 118 F1 LZ	72-74	8x2"	Primarily Two Lobed Tapered	Green to Red	1,000 to 1,500		M	Nice long dk green, mostly 2 lobed fruit. Plant is sturdy with good yield potential.
Cardon F1	74-76	7.5x1.75"	Flat, Tapered, Long, Smooth	Lt Green to Red	350	Tobamo Po(r)	M	Vigorous plant produces uniform and concentrated sets of large, flat fruit.
Chile G76 F1	Mid Season	Large to X-Large	Tapered, Long, Smooth	Lt Green to Red		TMV(r)	M	Large fruit that starts light green and turns red at maturity.
Charger F1	Main Season	7.5x1.5"	Cylindrical	Green to Deep Red	Mild	TSWV	M	Flavorful pepper providing mild heat. Vigorous plant with excellent cover.

Please See Price List For Additional Varieties Which May Be Available







Hot Peppers - Hybrid Ancho Types

Variety	Relative Days (TP)	Fruit LxW	Fruit Conformation	Fruit Color	Scoville Rating	Disease		Features
Sequoia	Early	Large	2-3 Lobed	Green to Red	Mild to Hot	TMV(r)	M	Ancho w/ large uniform shape. Medium tall plant habit. Wide adaptability to elevation.
Masivo	70-75	7-7.5"x3.5"	Flattened, Elongated, 2-Lobed	Dark Green	1,500 to 4,000	TMV(r)	M	High percentage dark green peppers with two smooth veins and a uniform shape.
Tiburon	78-83	5x2.5"	Tapering To A Blunt End	Dark Green to Red	1,000 to 3,000	BLS 1,2,3	M	Produces high yield of attractive, large fruit. Mildly pungent.

Please See Price List For Additional Varieties Which May Be Available

L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

PEPPERS - HOT

Hot Peppers - Banana Types

Variety	Relative Days (TP)	Fruit LxW	Fruit Conformation	Fruit Color	Scoville Rating	Disease		Features
Inferno F1	60-65	8x1.5"	Smooth, Tapered	Yellow to Red	2,500 to 45,000		M	Hot banana type. Fresh market and pickling. Very productive and uniform.
Hungarian Yellow Wax Hot	65-73	5.5x1.5"	Smooth, Conical, Tapers To A Point	Yellow to Red	2,000 to 4,000		M	Productive, fresh market and processing. Widely adapted.







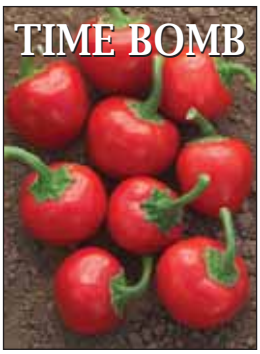
Hot Peppers - Caribe Types

Variety	Relative Days (TP)	Fruit LxW	Fruit Conformation	Fruit Color	Scoville Rating	Disease		Features
Rio de Oro F1	70-75	3.5x2"	Large, Conical, Tapered	Yellow to Orange Red	3,000 to 5,000	TMV, Tobamo Po	M	A Santa Fe Grande type with thick walls, strong plant and heavy fruit set. Quality!
Santa Fe Grande	75-80	3.5x1.5"	Large, Conical, Tapered	Yellow to Orange Red	5,000 to 8,000	Tobamo Po	M	Very prolific. Continuous setting for extended harvest. Widely adapted.
Cozumel	Main	4x1.5"	Conical Tapered	Yellow to Red	Mild		M	Semi-compact plant with concentrated set of mild fruit. For stuffing or slices.

Please See Price List For Additional Varieties Which May Be Available







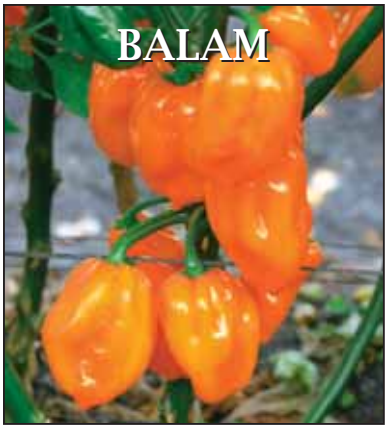
Hot Peppers - Cayenne Types

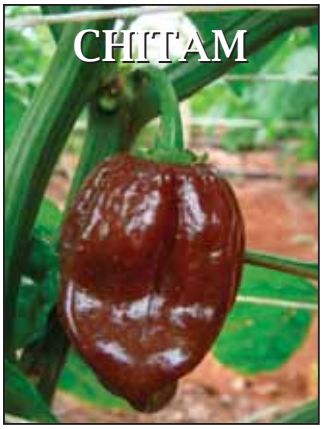
Variety	Relative Days (TP)	Fruit LxW	Fruit Conformation	Fruit Color	Scoville Rating	Disease		Features
Cayenne Large Thick	70-75	7x.75"	Two Celled, Wrinkled, Long	Green to Red	30,000 to 40,000		M	Very productive plant with pungent fruit. Works well for drying.
Cayenne Long Slim	70-75	5x.5"	Two Celled, Wrinkled, Long	Green to Red	30,000 to 40,000		M	A fresh market and home garden variety that produces a pungent fruit.

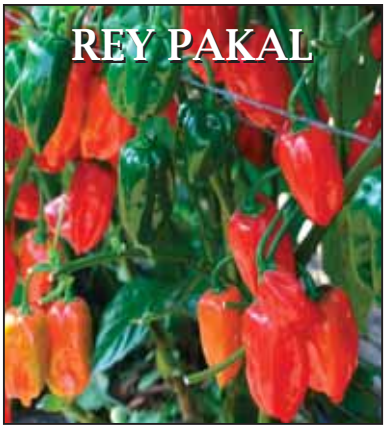
Hot Peppers - Cherry Types

Variety	Relative Days (TP)	Fruit LxW	Fruit Conformation	Fruit Color	Scoville Rating	Disease		Features
Time Bomb F1	65-70	1.6x1.6"	Globular	Green to Red	2,000 to 4,500	Tobamo Po(r)	M	A bright-red hot cherry for pickling. Less pungent than Cherry Bomb.

PEPPERS - HOT (Cont.)







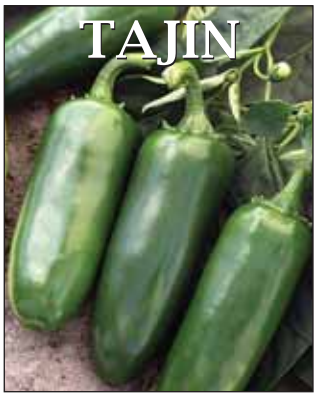


Hot Peppers - Habanero Types

Variety	Relative Days (TP)	Fruit LxW	Fruit Conformation	Fruit Color	Scoville Rating	Disease		Features
Habanero	90-100	2x1"	Wrinkled, Tapers To A Point	Green to Orange	200,000 plus		M	Extremely hot pepper for fresh market or processing.
Balam	95	1.5x2"	Large Typical	Green to Orange	200,000	CMV	M	Healthy plant for high productive harvest. Balam is very uniform and very hot.
Chitam	95	1.5x2"	Large Typical	Green to Chocolate	200,000	CMV	M	Continuous set throughout harvest. Very uniform with an eye catching color.
Rey Pakal	95	1.5x2"	Typical	Green to Red	200,000	CMV	M	Uniform fruit that turns red at maturity. Aromatic and extremely hot.
Scotch Bonnet Orange	100	2.5x 1.25"	Typical	Green to Orange	200,000		M	This OP matures green to orange. Similar to Jamaican Hot Red. Very HOT!!
Chichen Itza	115-120	6x3cm	Wrinkled, Tapers To A Point	Green to Orange	15,000 18,000	Tobamo Po(r)	M	Early hybrid that matures green to orange. Strong plant and excellent fruit set.

Please See Price List For Additional Varieties Which May Be Available





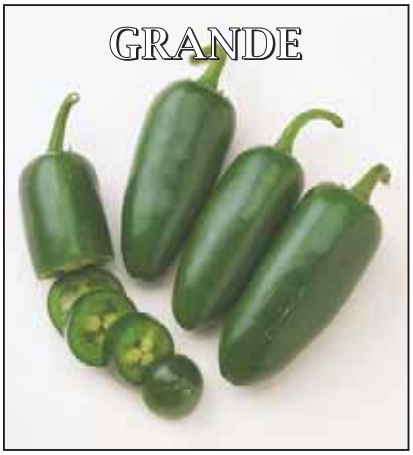


Hot Peppers - Hybrid Jalapeno

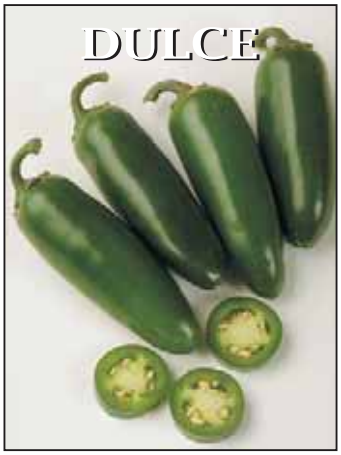
Variety	Relative Days (TP)	Fruit LxW	Fruit Conformation	Fruit Color	Scoville Rating	Disease		Features
PS11435810	62-66	4"x2"	Smooth Bullet	Dark Green	2,000 to 2,500	(Hr): Mi/Ma/Mj, PVY0, Tev (IR) Pc	M	Size, quality, yield & early. Concentrated set with smooth exterior and good color.
Mammoth	65-70	5"x2"	Cylindrical	Dark Green	2,500 to 5,000	TMV(r), PVY(r)	M	Huge Jalapeno! Uniform & dark green. High yielder & good disease package.
Tajin	70-75	3.8x1.6"	Bullet Shaped	Green to Red	6,000 to 8,000		M	Concentrated set with large, uniform fruit that have thick walls.
Talon	75-80	4x1.5"	Tapers	Green to Red	3,500 to 6,000	BLS(t)1-3, PeMV, PVY, Po(r), TEV	M	Great disease package with no purpling or checking. Dk green, excellent quality.

L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

PEPPERS - HOT (Cont.)







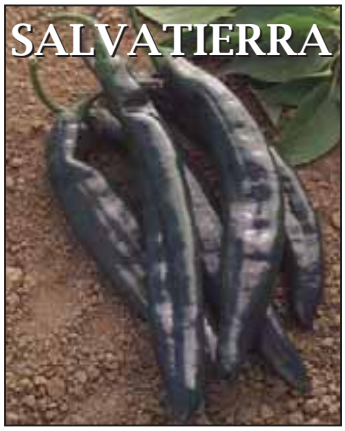


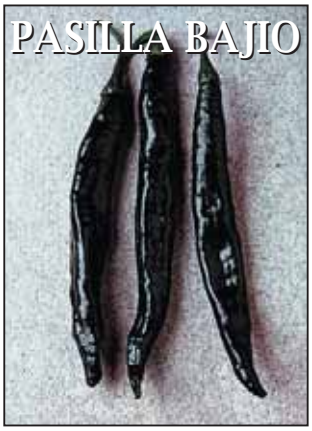
El Jefe	Mid-Season	4x1.5"	Tapers	Green to Red	4,000 to 6,000	BLS(t) 1-3, PVY0,1,2, PeMV	M	Yields large, dark green and glossy fruit on large plants. Widely adapted.
Grande	75-80	4x1.5"	Tapers	Green to Red	4,000 to 6,000	PVY, P (r), TEV(r)	M	Large, thick walled fruit. Very productive, large, vigorous plants.
Chichimeca LZ	75-80	4x1.6"	Tapers	Green to Red	5,000 to 6,000	Tobamo Po(r)	M	Large, uniform fruit with thick walls. Strong plant, excellent yield potential.
Dulce (No Heat)	75-80	3.5x1.3"	Bullet Shaped	Green to Red	No Heat	PVY, Tobamo Po(r)	M	A no heat Jalapeno. Ideal for fresh or processing. Flavor without the heat.
Ciclón	80-85	4-4.5" Long	Cylindrical	Dark Green	3,000 to 3,500	BST(t) 1-3	M	Accommodates cooler growing regions. Large, thick walled fruit. Late maturing.

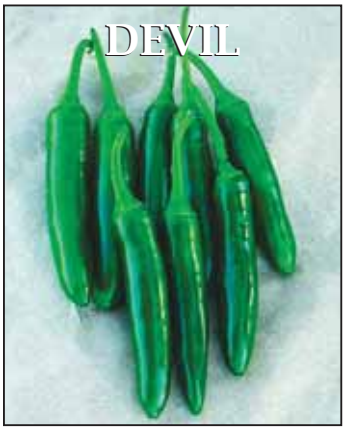
Please See Price List For Additional Varieties Which May Be Available

Hot Pepper - Pasilla (Chilaca) Types

Variety	Relative Days (TP)	Fruit LxW	Fruit Conformation	Fruit Color	Scoville Rating	Disease		Features
Salvatierra F1	70-75	7.25x1.2"	Elongated Tapering	Dark Green to Brown-Red	600 to 800	PYV, Tobamo Po(r)	M	Hybrid Pasilla with early maturity, excellent yield potential and quality.
Pasilla Bajio	75-80	8x1"	Two Celled Long Wrinkled	Dark Green to Brown-Red	500 to 1,500	Tobamo Po	M	Grown in Mexico for fresh market and dehydration. Used in mole sauces.









Hot Peppers - Hybrid Serrano

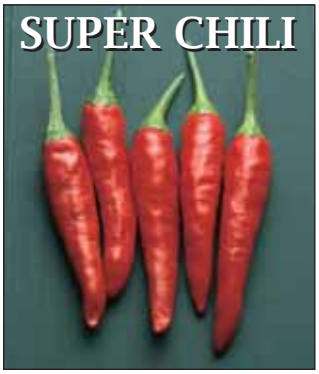
Variety	Relative Days (TP)	Fruit LxW	Fruit Conformation	Fruit Color	Scoville Rating	Disease		Features
Devil	72-75	3-4"	Typical Cylindrical	Very Dark Green	3,500 to 6,000	TEV(t), PeMV(t), PVY(t)	M	Leader in a new range of Serranos with high pungency and good color.
Altiplano	Main	5x.5"	Cylindrical	Glossy Green	6,000 to 10,000		M	Large sized fruit. Heavy yielding variety with high quality fruit.

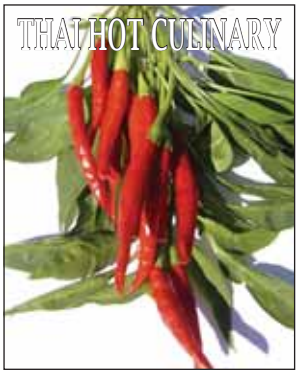
Please See Price List For Additional Varieties Which May Be Available

PEPPERS - HOT (Cont.)









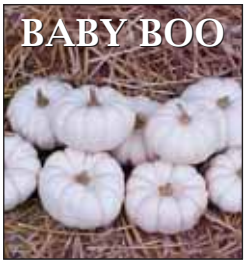
Hot Peppers - Specialty

Variety	Relative Days (TP)	Fruit LxW	Fruit Conformation	Fruit Color	Scoville Rating	Disease	Features
Hot Portugal	60-65	7x1”	Tapers To A Point	Green to Scarlet	30,000 to 50,000		M Sturdy, upright plant. Large, smooth, glossy bright scarlet fruit. Prolific yielder.
SV5232HY NEW (Flaming Flare)	Early	4x1.5”	Tapers To A Point	Green to Red	500 to 1,000	HR:TR	M AAS Winner. Attractive bright red fruit are very mild with sweet flavor. Many uses.
Fresno Chili	75-80	3x1.25”	Tapering	Green to Red	10,000 to 15,000	TMV	M Vigorous 24” to 36” plant with dark green foliage. Market at green stage.
Super Chili F1 LZ	75-80	2.4x.4”	Tapering	Light Green to Red	30,000 to 40,000		M Early, productive, used fresh or dried. Great for bedding plant item.
Thai Hot Culinary	75-80	2-3” Long	Tapers, Upright	Green to Red	40,000 plus		M Upright clusters 2-3” hot peppers. Beautiful foliage, bears abundantly.
Chiltepin	90	3/4”	Oval	Green to Red	100,000 to 250,000		M Very hot miniature pepper usually harvested in the wild of Southwest US.
Pequin	100	less than 3”	Cylindrical	Green to Orange to Red	50,000+		M Fruit grows erect from the top of the stems, very hot and prolific.

Please See Price List For Additional Varieties Which May Be Available

PUMPKINS











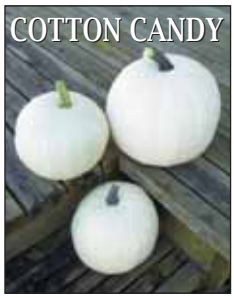
Pumpkins - White

Variety	Relative Days	Fruit Size WxH	Fruit Weight	Skin Color Texture	Plant Type	Features
Casperita LZ	77	6x2.5”	.5-1lb	White, Ribbed	Semi Vine	M Great personal sized, hybrid pumpkin that is a very good producer. Bright white color is maintained longer.
Baby Boo	90	3x2”	.25 lb	White, Ribbed	Vine	L Pure white Jack Be Little type. Adds color to the mini pumpkin display. Stores well.
Lumina PVP (Premium)	90	8x10”	10 lbs	White, Slightly Ribbed	Vine	M White exterior with orange flesh. Excellent for carving or painting.
Crystal Star LZ	100	12x11”	25-30 lbs	White	Vine	M A white variety will not turn blue or yellow at maturity. Full vine and large fruit with true pumpkin shape
Polar Bear	100	12-18”	30-40 lbs	White	Vine	M Large, bright white pumpkin that retains white color after maturity. Great for decorative display.
Blanco	105	12-18”	4-6 lbs	White	Semi Vine	M Blanco has bright white fruit that has shown moderate resistance to color change. PM(t)

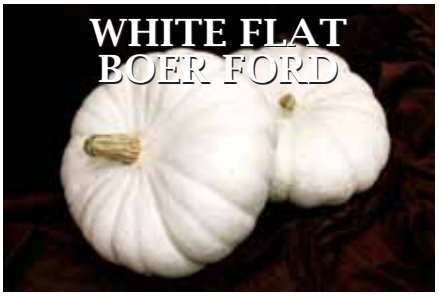
Please See Price List For Additional Varieties Which May Be Available

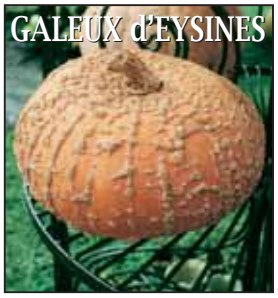
L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

PUMPKINS (Cont.)





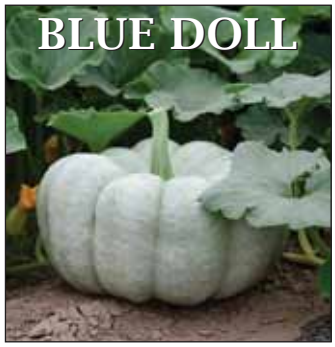




Pumpkins - White

Variety	Relative Days	Fruit Size WxH	Fruit Weight	Skin Color Texture	Plant Type		Features
Cotton Candy	110	7x8"	5-12 lbs	Snow White, Slightly Ribbed	Vine	L	Nice white exterior with sizes ranging from 5-12 lbs. Excellent for painting. Add it to your program.
New Moon F1 (Premium)	115-120	Extra Large	35-45 lbs	White, Slightly Ribbed	Full Vine	M	Uniform pumpkin with white rind and flesh. Fruit remains firm weeks after harvest.
White Flat Boer Ford	115-120	8-14" x3-5"	14-17 lbs	White-Creamy Ribbed	Full Vine	M	Attractive stacking pumpkin perfect for decorations. Ribbed flat fruit range from white to cream.









Pumpkins - Specialty

Variety	Relative Days	Fruit Size WxH	Fruit Weight	Skin Color Texture	Plant Type		Features
Galeux d'Eysines	95-100	13x6"	9-12lbs	Pink With Beige Bumps	Vine	L	Raised bumps over skin surface resemble peanuts. French heirloom shaped like a wheel of cheese.
Toad	Early	5x4"	1.5-2.5 lbs	Orange w/ Warts	Semi-Bush	M	Semi hard shell. High yield. Bright orange color with multiple warts gives Toad a truly unique character.
Kakai (Non-hulled)	100	Medium Small	5-8 lbs	Orange w/ Black Stripes	Semi-Bush	L	Large, dark green completely hull-less seeds, which are absolutely delicious roasted.
Blue Doll F1	100	Medium Large	20-24 lbs	Exotic Blue Deep Ribbed	Vine	M	An exotic blue color and almost square appearance with deep ribbing. Orange flesh has a very sweet flavor.
Mr. Wrinkles F1	100	10x13"	20-30 lbs	Dark Orange, Hvy Ribbed	Vine	M	The deeply wrinkled skin makes it a unique pumpkin! This barrel shaped pumpkin is a must for your pumpkin patch.
Warty Goblin F1	100	Medium Large	15-22 lbs	Orange w/ Green Warts	Vine	M	This pumpkin is a must have for any market. Hard shell type that warts consistently and has a great handle.
Knuckle Head F1	105	12x10"	16 lbs	Orange, Warted	Large Vine	M	Newest in the "Super Freak" collection. Great warts sure to scare anyone on Halloween.
Cinderella	105	15x6"	12-18 lbs	Red/Orange, Deep Ribbed	Full Vine	L	Attractive decorative pumpkin with deep reddish orange color. Also known as Rouge Vif D' Etampes.
Porcelain Doll F1	110	Medium Large	20-24 lbs	Pink, Deep Ribbed	Vine	M	Unique pink color perfect for October fund raising. Eye catching holiday decore. **Over 100 seeds requires sign off.**
Small World of Color F1	110	Medium Large	25-30 lbs	Multi Colored	Vine	M	A blend of decorative pumpkins th at are sure to catch your eye. Blend includes white, pink and a pink-blue pumpkin.

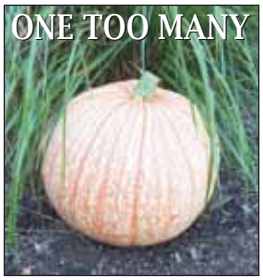
Please See Price List For Additional Varieties Which May Be Available

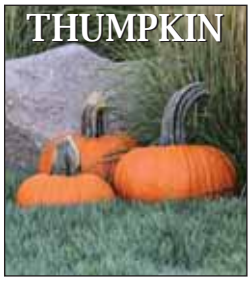
PUMPKINS (Cont.)











Pumpkins - Specialty

Variety	Relative Days	Fruit Size WxH	Fruit Weight	Skin Color Texture	Plant Type		Features
One Too Many	110	12x12”	20 lbs	White w/ Red Veins	Large Vine	M	Outstanding potential for decorative use. Fruit are 75% round with 25% oblong. Good mildew tolerance.
Red Warty Thing	110		20 lbs Round	Red w/ Warts	Large Vine	L	A variety from the U.S. seed bank that makes an unusual addition to the decorative market. Good eating flesh.
Thumpkin	120	12X6"	15-20 lbs	Dark Orange	Vine	L	Hard stemmed pumpkin with unique flattened fruit and a gigantic handle. Needs space.
Fairytale	125	13x8”	25-30 lbs	Buckskin, Deep Ribbed	Vine	M	Not recommended for short season areas. Deeply scalloped. Fruit is buckskinned color at maturity.

Please See Price List For Additional Varieties Which May Be Available











Pumpkins - Miniature

Variety	Relative Days	Fruit Size WxH	Fruit Weight	Skin Color Texture	Plant Type		Features
Lil’ Orange Mon F1 LZ	Early	4x2”	1.5 lbs	Dark Orange w/ Light Flecking	Semi-Bush	M	Dark orange skin with light orange flecking. Long handles. A great new addition to your pumpkin mix.
Crunchkin	Early	3-4" x1-2"	.5-1 lbs	Speckled Orange	Bush	M	Hard shell type. High yield with an attractive speckled exterior that darkens as it matures.
Lil’ Pump-Ke-Mon F1	90	4x2”	1.5-2 lbs	Orange & White Stripped	Bush	M	Very unique. Distinctly flattened shape with slight to medium ribbing emphasized by orange stripes.
Kandy Korn Plus	90	3.5 x4.25”	1.0 lb	Deep Orange, Shallow Ribs	Bush	M	Dark green handles set on deep orange fruit gives this pumpkin eye appeal. High yield makes this a favorite.
Jack Be Little (Premium)	95	3x2”	.25 lb	Dark Orange, Deep Ribbed	Vine	M	Miniature, attractive, decorative pumpkin. Flattened shape with a strong handle. Stores well.
Munchkin	95	3x2”	.25 lb	Medium Orange, Deep Ribbed	Vine	M	Prolific yielder of decorative fruit. Flattened shape with deep ribs. Miniature decorative pumpkin.
Wee-Be-Little	95	3x3”	.5 lb	Deep Orange, Smooth	Bush	L	AAS Winner! Excellent mini pumpkin for carving or painting. Smooth fruit with nice pumpkin shape.
WeeeeeOne F1	95	3x3”	1/2 lb	Orange, Unique Ribbing	Semi Bush	M	Can be used as a carving pumpkin or decorating. Ribbing is unique. Excellent PMR and high yield.

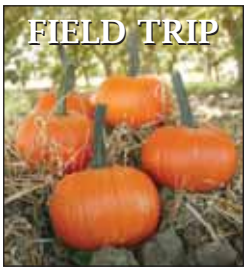


L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

PUMPKINS (Cont.)











Pumpkins - Small / Pie

Variety	Relative Days	Fruit Size WxH	Fruit Weight	Skin Color Texture	Plant Type		Features
Mischief F1	Mid-Early	5-6 x6-7"	2-4 lbs	Dark Orange, Slightly Ribbed	Semi-Vine	M	High yield of uniform fruit. A dark, strong attached handle on a taller round shaped with well-defined ribs.
Cannon Ball F1 LZ	Main	5x5"	5 lbs	Dark Orange	Vigorous	M	Uniform fruit with large, firmly rooted handle. Attractive dark orange color. Good yield and a vigorous plant.
Early Abundance F1	90	Small	4-6 lbs	Dark Orange, Slightly Ribbed	Vine	M	Early 4-6 pound pumpkin with dark orange color. Uniform size with good resistance to Powdery Mildew.
Hybrid Pam F1	90	7x7"	5-7 lbs	Deep Orange, Slightly Ribbed	Restricted Vine	M	Good yield potential. Long, deep green handles. Nice shape.
Mystic Plus F1	95	8x6"	5-7 lbs Smooth Skin	Deep Orange, Vine	Compact	M	Slightly flattened shape. Very high brix, excellent eating pumpkin. Powdery Mildew tolerant pie pumpkin.
Field Trip F1 LZ	95	5x7"	5-7 lbs Slightly Ribbed	Dark Orange,	Vine	M	A perfect school age pumpkin that is flat & ribbed with a long handle, uniform shape & size. Intermediate PM(r).
Baby Wrinkles F1	100	7x8"	5-8 lbs	Burnt Orange, Rough Skinned	Semi Vine	M	Baby Wrinkles has a unique skin texture with a distinct appearance. Dark handles that are well embedded.
Jack Sprat F1	100	6x5"	2-3 lbs	Dark Orange, Slightly Ribbed	Semi Bush	M	Very uniform in size and shape. High number of fruit per plant. Good Powdery Mildew tolerance.
Small Sugar/Pie	100	6x7"	5-7 lbs	Dark Orange, Slightly Ribbed	Medium Vine	L	This OP is a dual purpose pie pumpkin for displays and baking with traditional shape.
Fall Splendor Plus	105	7x8"	4-6 lbs	Dark Orange	Restricted Vine	M	Excellent yields with a strong vine that produces uniform fruit. Dark well attached handles. PM(Hr)

Please See Price List For Additional Varieties Which May Be Available











Pumpkins - Mid Size

Variety	Relative Days	Fruit Size WxH	Fruit Weight	Skin Color Texture	Plant Type		Features
Cougar PMR F1 (Premium)	85	Large Round	10-12 lbs	Orange, Med Ribbed	Vine	M	Early with great color and a sturdy, dark green handle. Precocious variety. Part of the PMR series.
Gold Fever	90	12x14"	12-15 lbs	Dark Orange, Med Ribbed	Restricted Vine	L	High yield potential with good uniformity as well as outstanding handles. Good size for shipping.
Gold Standard F1	90	13x13"	16 lbs	Deep Orange, Med Ribbed	Restricted Vine	L	High yield potential with good handles and deep orange color.
Cracker Jack F1	105	9x9"	10-14 lbs	Dark Orange	Restricted Vine	M	Cracker Jack has blocky fruit with a strong dark handle that grows on a vigorous plant. PM(IR)
Magician F1	110	10x12"	8-16 lbs	Orange, Med Ribbed	Vigorous Semi-Bush	M	A very attractive round pumpkin with ZYMV and Powdery Mildew tolerance. High yield potential.
Zeus F1	110	12x11"	16-20 lbs	Medium Dark Orange	Vine	M	Great shipper!! Strong vine produces attractive fruit w/ large firmly attached handle. PM(IR) ZYMV(IR)

Please See Price List For Additional Varieties Which May Be Available

PUMPKINS (Cont.)













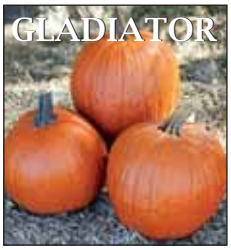
Pumpkins - Large

Variety	Relative Days	Fruit Size WxH	Fruit Weight	Skin Color Texture	Plant Type		Features
Aspen F1 (Premium)	90	14x12”	16-22 lbs	Rich Orange, Slightly Ribbed	Semi-Bush	M	Uniform, medium to large fruit. Very good yield potential. Nice exterior color with strong handles. Good shipper.
Early King F1	90	Tall	22-32 lbs	Dark Orange, Hvy Ribbed	Full Vine	M	Early King is a very large pumpkin with a dark orange color and full vine. Good PM(r).
Early Giant F1	95	Tall	25-35 lbs	Burnt Orange, Hvy Ribbed	Full Vine	M	Very early for its size, ideal for shorter growing areas. Very productive and has good PM(r).
Apollo F1	Early	14x12”	18-32 lbs	Dark Orange, Med Ribbed	Semi-Vine	M	Large Aladdin-type with medium ribbing. An improved handle size and attachment. Good PM(r).
Kratos F1 LZ	100	13x14”	20-30 lbs	Medium Dark Orange	Full Vine	M	Kratos has a strong vine with dark orange fruit and a strong, well attached handle. PM(IR)
Honky Tonk F1	100	13x10”	20-25 lbs	Burnt Orange, Deep Wrinkle	Full Vine	M	Deeply ribbed, wrinkled appearance with a burnt orange color. Honky Tonk has a dark green embedded handle.
Diablo F1	100	9”x11”	18-22 lbs	Deep Orange, Med Deep Ribs	Vine	M	Diablo has a beautiful dark orange color with strong dark green embedded handle.
Hulk F1 NEW	100	15”x13”	27-32 lbs	Dark Orange, Ribs	Vine	M	Large barrel shaped pumpkin with very dark orange color and a large dark embedded handle.
Magic Wand F1 LZ	105	13”x13”	15-25 lbs	Deep Orange, Heavily Ribbed	Vine	M	Slightly flattened round pumpkin with large well attached handle. Uniform shape and size. PM(r)
Gold Medal F1	105	13x12”	22 lbs	Dark Orange, Med Ribbed	Large Vine	L	Large pumpkin with dark color and great, long handle. Good yield potential.
Rhea F1	Main	Flat-Round	20-30 lbs	Dark Orange	Vine	M	Dark orange color with well defined ribs. Long, well attached handles and good color. PM(IR)











Cronus F1	Main	Round to Blocky	25-60 lbs	Dark Orange	Vine	M	Exceptionally vigorous vine. Dark orange with a large dark green, firmly attached stem.
Ares F1	115	16x12”	22-28 lbs	Medium Dark Orange	Full Vine	M	Large pumpkin with a unique upright shape. Has a large, firmly attached handle. PM(IR)
Gladiator F1 LZ	115	13x12”	15-25 lbs	Deep Orange, Deep Ribbed	Vigorous Semi-Bush	M	This round fruit has deep orange color and large, well attached handles. Good uniformity for size and shape.
Howden	115	16x13”	20-30 lbs	Deep Orange, Deep Ribbed	Full Vine	L	This classic pumpkin is an industry standard. On virgin ground Howden cannot be beat.
Magic Lantern F1	115	12x16”	16-24 lbs	Dark Orange, Med Ribbed	Compact Vine	M	Slightly upright shape, very dark orange. Heavy crown set and top yield potential. Powdery Mildew tolerant.
Aladdin F1	115	12x15”	25-45 lbs	Dark Orange, Med Ribbed	Vine	M	Beautiful large-size pumpkin with Powdery Mildew tolerance. Striking dark orange color.
Gold Rush PVP	120	16x12”	20-35 lbs	Deep Orange, Med Ribbed	Vine	L	Large, thick, dark green handles. Vigorous with good yield potential.

Please See Price List For Additional Varieties Which May Be Available

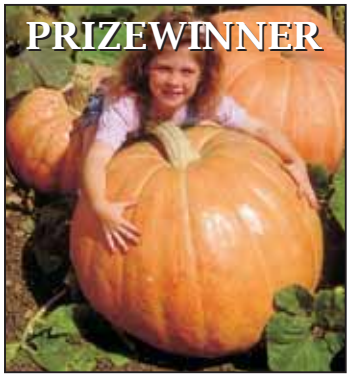
L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

PUMPKINS (Cont.)









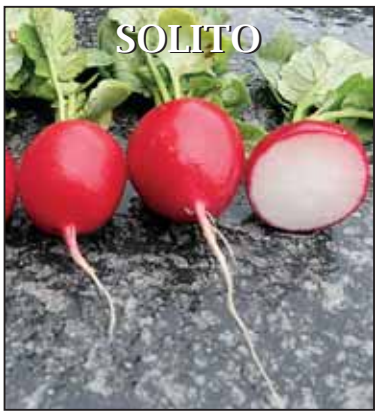
Pumpkins - Extra Large

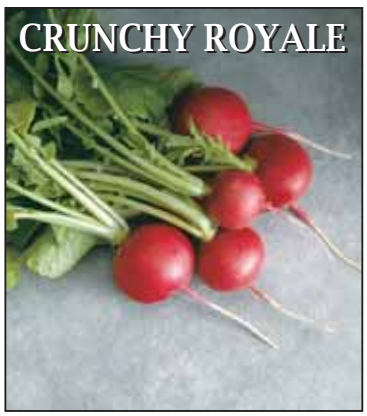
Variety	Relative Days	Fruit Size WxH	Fruit Weight	Skin Color Texture	Plant Type		Features
Captain Jack F1 LZ	110	13x15"	30+ lbs	Med Orange, Med Deep Ribs	Large Vine	M	Extra large pumpkin with thick flesh and flat bottom. Has an extremely large, thick, embedded handle.
Super Herc F1	115	14x15"	30-40 lbs	Dark Orange, Med Ribbed	Large Vine	M	Strong, full-size vines produce attractive dark orange, uniform fruit. Handles are firmly rooted. PM tolerant.
Conestoga Special NEW	120	Extra Large	40+ lbs	Dark Orange, Medium Ribs	Large Vine	M	An X-Large OP pumpkin that has excellent color and a true pumpkin handle. Best in trial for a few years running.
Big Max	120	Extra Large	30-50 lbs	Orange	Large Vine	L	Large carving pumpkin.
Dill's Atlantic Giant	120	Variable	100+ lbs	Orange	Large Vine	L	This is the big one! Potential to be a giant. This one wins the prizes.
Howden Biggie LZ	120	Extra Large	30-50 lbs	Dark Orange	Large Vine	M	Large size, true, attractive pumpkin shape and dark orange color. Vigorous vine. Ideal for Halloween carving.
Prizewinner F1	120	Extra Large	100+ lbs	Orange	Large	M	A very large pumpkin with excellent shape and color.

Please See Price List For Additional Varieties Which May Be Available

RADISH







Hybrid Radish

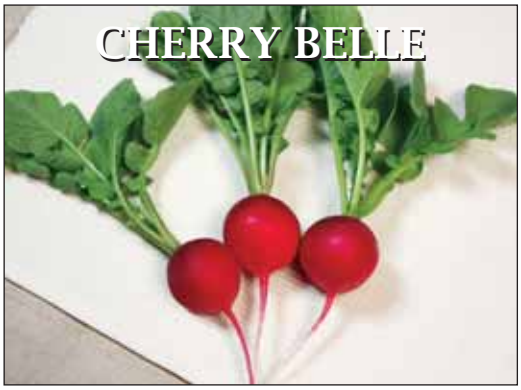
Variety	Relative Days	Root Shape	Root Color	Tops	Disease		Features
Crunchy Red	23	Round Globe	Dark Red	Medium	RZ(t), P	M	Produces medium large tops and very uniform, dark red, round roots. Makes size in cool weather.
Solito	25	Round Globe	Bright Red	Short	F(HR), DM(IR)	M	A bright red, round hybrid variety with short tops. Great internal quality and good resistance to cracking.
Crunchy Royale	25	Round	Bright Red	Medium		M	Excellent uniformity with medium top, very high pack out. Excellent internal and external color.

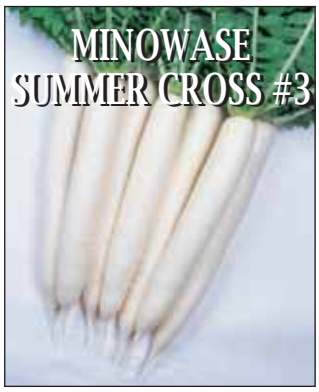
Please See Price List For Additional Varieties Which May Be Available

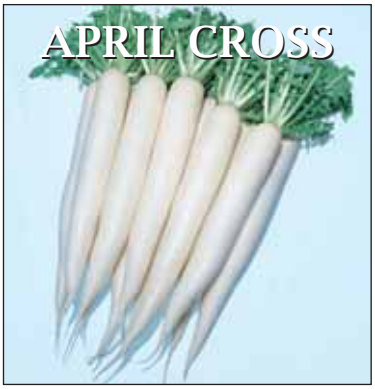
RADISH (Cont.)

Open Pollinated Radish

Variety	Relative Days	Root Shape	Root Color	Tops		Features
Cherry Belle	22	Round Very Smooth	Bright Red	Medium	L	Early variety for bunching and packing, tops remain short for bunching.
Rudi	26	Round Smooth	Dark Red	Medium	L	Rudi is an excellent OP variety with good bulb quality. Excellent for spring planting.
Easter Egg	27	Round/ Oval	Multi-Colors	Medium	L	Multi-colored blend of red, pink and white. Will add eye catching color to any farm stand. Great for bulk bin market.
Icicle Short Top	27	Icicle	White	Medium	L	This white radish grows in the shape of any icicle. Has a mild flavor and a tender texture.







Oriental Radish

Variety	Relative Days	Root Shape	Root Color	Tops		Features
Minowase Summer Cross #3 F1	50	Slightly Tapered	White	Tall	L	Daikon type. A dependable Summer variety for early Fall harvest. Roots are 15.5x2.75". Takii variety.
April Cross F1	60	Slightly Tapered	White	Tall	M	Daikon type. Market leader in extra slow bolting habits. For Spring and Fall harvest. Very late to get pithy. Roots are 12"-18".

RUTABAGA

Rutabaga

Variety	Relative Days	Root Shape Size		Features
American Purple Top	90	Globe 5-6"	L	A deep purple crown with a yellow base root for fresh market. Prolific greens.
Laurentian	95	Globe 5-6"	L	Deep purple crown with creamy yellow base provides flesh that is refined in texture and flavor. Used for fresh market and processing.

COVER CROP

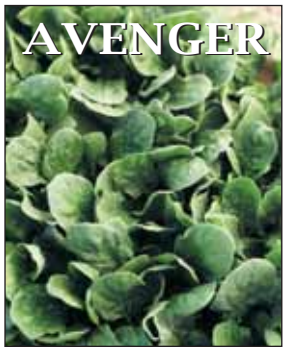
Cover Crop

Variety		Features
Austrian Winter Pea	L	Austrian Winter Peas are a Fall seeded cover crop that can be used for green manure plow down. Crops should be planted during the month of September for best stand establishment. Severe fluctuations between warm temperatures and cold will increase Winter kill. Planting rate is approximately 40-50 pounds per acre when using for green manure.
Buckwheat	L	Buckwheat is a fast growing Summer crop used primarily for green manure. It is frost sensitive. When used for green manure, buckwheat should be plowed down 7-10 days after flowering or 30 days after emergence. Buckwheat is hardy, requiring little moisture and will grow in many types of soils. Planting rate is approximately 50 pounds per acre.
Candan 99 Sorgham/Sudangrass	L	A fast establishing, high-yielding cover crop. Excellent if used for green manure. Will compete tonnage-wise with any sorgham/sudangrass on the market.

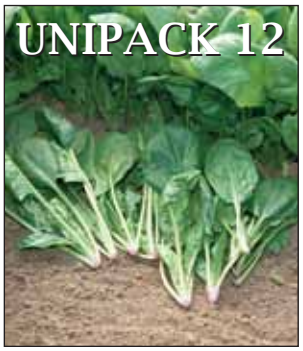
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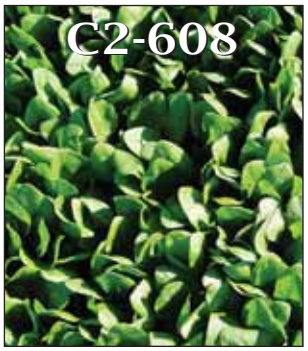
L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

SPINACH









Hybrid Spinach - Smooth Leaf

Variety	Relative Days	Leaf Type	Leaf Color	Plant Habit	Disease	Features
Avenger	45	Smooth	Deep Green	Erect	DM(r)1-7 M	Deep green color, suited for Summer planting. Smooth, round leaves with good yield potential.
Falcon	45	Smooth	Dark Green	Upright	DM(r)1-7 M	Dark green color with smooth leaf texture. Excellent vigor. Suited for Fall harvest. High yield potential.
Unipack 12	45	Smooth	Deep Green	Erect	DM(r)1-4 M	A slow bolting, Summer variety that provides uniform maturity and leaf size.
C2-608 LZ	48	Smooth	Dark Green	Upright	DM(r)1-7 M	A fast growing Spring/Fall only variety that produces strong, smooth, glossy leaves. Very erect plant habit.
Riverside	Main	Spade	Very Dark Green	Erect	DM(r)1-11, DM(ir)14 M	Very dark green, smooth, spade shaped leaf. Moderate growth with upright plant. Good disease package.
C2-606	Main	Spade	Dark Green	Upright	DM(r)1-9, 11-13,14,15 M	C2-606 has a uniform spade shaped leaf, upright plant habit and is very bolt tolerant.







Hybrid Spinach - Semi-Savoy

Variety	Relative Days	Leaf Type	Leaf Color	Plant Habit	Disease	Features
Unipack 151	Main Season	Savoy	Dark Green	Prostrate	DM(r)1-4 M	A main season Savoy with dark green color. Leaf shape is oval to round.

Please See Price List For Additional Varieties Which May Be Available



SQUASH - SUMMER









Squash - Hybrid Green Zucchini

Variety	Relative Days	Color	Fruit Size Shape	Plant Type	Disease		Features
Pascola	42	Dark Green	Cylindrical	Upright, Open	ZYMV, WMV, CMV, PM	M	High quality fruit are very uniform, medium to long with a large diameter. Excellent yield potential.
Noche LZ	43	Very Dark Green	7-8" Cylindrical	Open, Nearly Spineless	ZYMV(t), WMV(t)2	M	A Raven type with added disease tolerance. Excellent quality.
Liberty	Main	Dark Green	8" Cylindrical	Open, Spineless	ZYMV(r), WMV(ir), PRSV(ir)	M	Spineless plant with dark green fruit that twist off easily at maturity. Good disease package
Raven	43	Very Dark Green	7-8" Cylindrical	Open, Nearly Spineless		M	High yielding. The standard for very dark green color. Plant is open and nearly spineless.
Ambassador	51	Medium Dark Green	7-8" Cylindrical	Compact, Open Bush		M	High quality, waxy appearance, high yielding and easy picking. A standard for many years.

Squash - Hybrid Grey Zucchini

Variety	Relative Days	Color	Fruit Size Shape	Plant Type	Disease		Features
Hurakan	45	Grey Green	6-7" Tapered	Medium Indeterminate	PM, ZYMV	M	A hybrid variety with true characteristics of a grey zucchini. Exceptional yield and fruit quality.
Depredador	45	Light to Med Gray	5-7" Tapered	Vigorous	HR:PRSV, SLCV, WMV, ZYMV	M	Early with a vigorous plant. Speckled fruit are long and tapered with small blossom end scar.









Squash - Hybrid Yellow Zucchini

Variety	Relative Days	Color	Fruit Size Shape	Plant Type	Disease		Features
Golden Dawn III	46	Deep Golden Yellow	7-8" Cylindrical	Open, Vigorous Upright		M	This variety offers smooth and straight golden fruit. Open plant habit.
Golden Delight	47	Deep Golden Yellow	7-8" Cylindrical	Open, Vigorous Upright	ZYMV(t), WMV(t)2	M	This variety produces high quality, very uniform golden-yellow fruit. Semi-spineless.
Golden Arrow (HMX 1717)	48	Golden Yellow	8" Cylindrical	Open	PRSV(r), WMV(r), ZYMV(r)	M	A precocious yellow, uniform & straight fruit, golden at maturity; no fruit greening with extended harvest.
Gold Rush	49	Deep Gold Green Stem	7-8" Cylindrical	Upright Open		M	**AAS winner!** Gold Rush produces straight, uniform fruit with very smooth, waxy skin.

Please See Price List For Additional Varieties Which May Be Available

L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

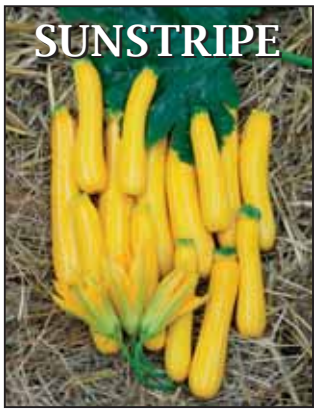
SQUASH - SUMMER (Cont.)

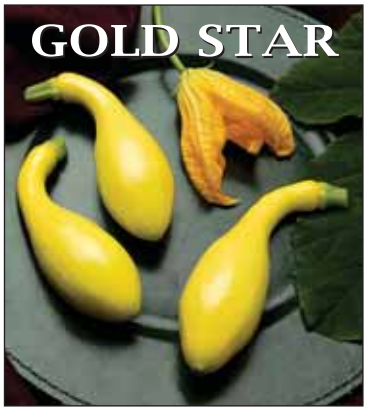
Squash - Specialty Zucchini

Variety	Relative Days	Color	Fruit Size Shape	Plant Type	Disease		Features
Safari	Mid	Dk Grn w/ Lt Grn Stripes	Cylindrical	Upright Open		M	A totally unique and eye catching green striped fruit. Fruit are produced on spineless bush.
Piccolo	Mid	Dk Grn w/ Lt Grn Stripes	Barrel Shaped	Upright Open		M	Produces an abundance of round, green striped fruit. Great for container sales. Spineless plant.
Sunstripe	Mid	Yellow w/ White Stripes	Cylindrical	Upright Open		M	Golden yellow striped fruit on a spineless bush. Great uniformity with great flavor and texture.







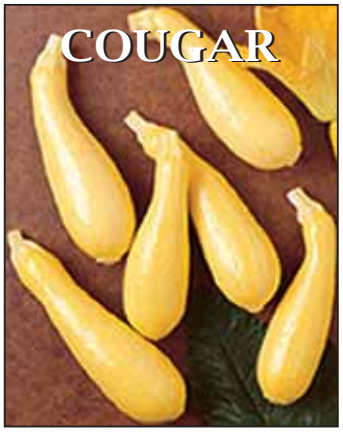


Squash - Hybrid Crookneck

Variety	Relative Days	Color	Fruit Size Shape	Plant Type	Disease		Features
Gold Star	42	Med Yellow	6-6.5" Semi-Crookneck	Vigorous	CMV, PM(ir)	M	An improved disease package. Neck is strong with outstanding fruit smoothness and quality.







Squash - Hybrid Straightneck

Variety	Relative Days	Color	Fruit Size	Plant Type	Disease		Features
Superpik	Early	Glossy Yellow	7"	Vigorous		M	A precocious yellow straightneck with good vigor. Prolific early yield of elongated fruit.
Solstice	Early	Bright Yellow	6-7"	Strong Open Bush	WMV(ir), ZYMV(ir)	M	Solstice's fruit are smooth & straight with a medium bulb. Strong, vigorous open bush.
Cougar LZ	45	Precocious Yellow	5-6"	Upright	WMV(t)1,2, ZYMV(t), CMV(t)	M	Excellent disease package with quality fruit over an extended harvest period.

Please See Price List For Additional Varieties Which May Be Available

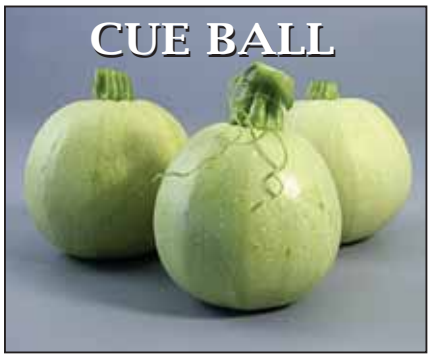
SQUASH - SUMMER (Cont.)





Squash - Specialty

Variety	Relative Days	Color	Fruit Size Shape	Plant Type	Disease		Features
Sunburst F1	50	Bright Deep Yellow	3" Diameter	Open Compact		M	AAS Winner! Deep yellow color. Excellent for full size and baby vegetable markets.
Bennings Green Tint	52	Light Green	2.5-3" Diameter	Medium Bush Open Habit		L	Light green color, deep scallop shape. Excellent yielder. Similar to Peter Pan.







Variety	Relative Days	Color	Fruit Shape	Plant Type	Disease		Features
Cue Ball F1	40	Light Green	Round	Bush		M	Cue Ball is another unique round zucchini from Hollar. Light green in color with excellent yield.
One Ball F1	40	Golden Yellow	Round	Upright Open	ZYMV(t), WMV(t)	M	One Ball is a unique round zucchini with a golden color. Excellent companion to Eight Ball.
Eight Ball F1 (Premium)	42	Dark Green	Round	Vigorous Bush		M	AAS Winner! A unique round zucchini with dark green color and great taste. Prolific yielder.

Please See Price List For Additional Varieties Which May Be Available



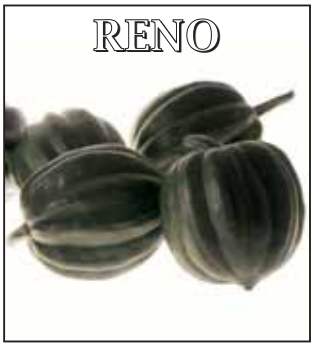
L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

SQUASH - WINTER



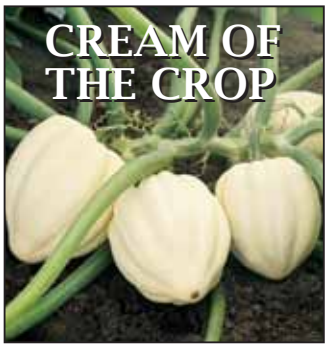






Squash - Hybrid Acorn Types

Variety	Relative Days	Fruit Color	Fruit Size Shape	Plant Type		Features
Autumn Delight	70	Dark Green Black	6x6" Acorn	Semi-Bush Compact	M	A new high quality acorn squash with large, deep ribs, a dark exterior and a rich, butter-colored interior. PM(r).
Table Ace LZ	70	Dark Green Black	5x6" Full Acorn	Semi-Bush	M	A standard when it comes to acorn varieties. Very flavorful, with good yields and storage.
Taybelle PM	70	Dark Green	6x5" Acorn	Vine	M	Early with high market appeal. Fruits are typically larger than Table Ace. Intermediate resistance to Powdery Mildew.
Reno (Premium)	70-75	Dark Green	5x4" Acorn	Semi-Bush	M	A classically shaped acorn with moderate furrows and a dark green color. Flesh has a fine texture & a sweet nutty flavor.
Royal Ace PM	85	Dark Green	Acorn	Semi-Bush	M	Big yields of very high quality acorn squash. The fruit are very uniform for size and shape. Has an attractive dark green flesh.







Squash - Specialty Acorn Types

Variety	Relative Days	Fruit Color	Fruit Size Shape	Plant Type		Features
Cream of The Crop	75	Creamy White	6" Acorn	Bush	M	AAS Winner! Has a creamy white flesh color with a deliciously mild flavor. A favorite.
Heart of Gold	90	Cream White Dk Green Stripes	5.5x4.5" Acorn	Vigorous Semi-Bush	M	Fruits are cream white with dark green mottled stripes. Attractive colors and great flavor.
Celebration	90	Light Yellow Orange Sutures	4x5" Acorn	Compact Bush	M	A Powdery Mildew(t) hybrid acorn with gold striping and exceptional eating quality. Excellent for mixed bin displays.

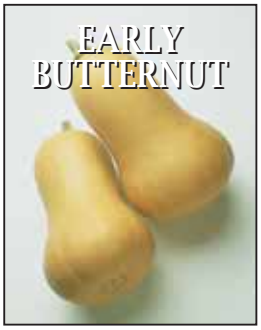
Please See Price List For Additional Varieties Which May Be Available



SQUASH - WINTER (Cont.)





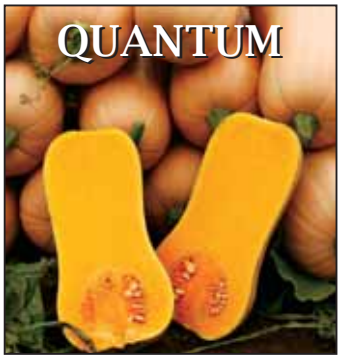


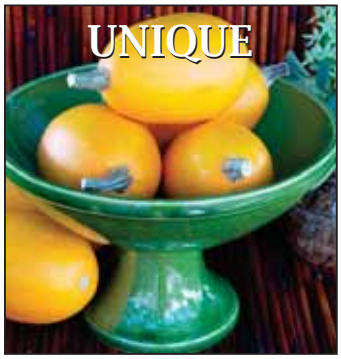


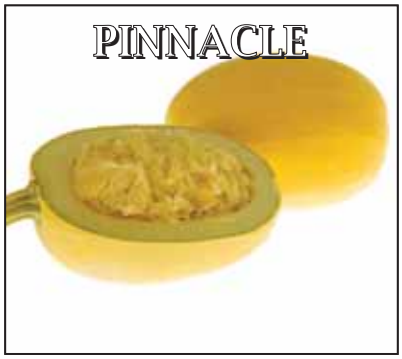
Squash - Butternut Types

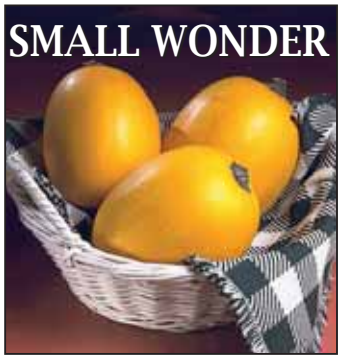
Variety	Relative Days	Fruit Color	Fruit Size Shape	Plant Type		Features
Butterboy F1	80	Buff	10"	Semi-Bush	M	Very nice interior color. Orange flesh with sweet flavor. Stores well.
Betternut 900	80	Light Tan	8-9"	Semi-Bush	M	Winter butternut squash that is 3 pounds, semi-bush. Excellent for boxing. PM tolerant
Early Butternut F1	82	Tan	10-12" Midsize	Semi-Bush	M	AAS winner! Sweet, nutty flavor & firm texture that doesn't become watery when baking. Flesh is dark orange when cooked.
Butterfly	90	Tan	3.5lbs Uniform	Semi-Bush	M	Gets high marks for uniform size and shape. Traditional shape with above average neck size. Fine grained orange flesh. PM(ir).
Waltham Butternut	96	Light Tan	10-12" Blocky	Vine	L	A standard open pollinated butternut. Stores well with a hard tough rind.
Quantum NEW	100-110	Buff Tan	2.5-4.5lbs Blocky	Vine	M	Exceptional uniformity of size and shape. Strong vigorous plant produces high quality fruit with thick neck and small cavity.

Please See Price List For Additional Varieties Which May Be Available









Squash - Spaghetti Types

Variety	Relative Days	Color	Fruit Size Shape	Plant Type		Features
Unique	85	Deep Yellow Orange	1.3 lbs Oval	Semi Bush	M	Mini sized for gourmet specialty market. A fresh nutty flavor with good sweetness. Flesh is deep orange with an angel hair texture.
Pinnacle F1 NEW	85	Bright Yellow	3# Oval	Semi-Bush	M	Fruit has an appealing bright yellow color with excellent internal quality. Flesh has fine strands and a nutty flavor. High quality.
Small Wonder F1	90	Light Orange	6" Oval	Vine	M	Small Wonder is a single serving vegetable spaghetti. Exceptional productivity and very good shelf life.
Vegetable Spaghetti	115	Pale Yellow	8-10" Cylindrical	Vine	L	Standard vegetable spaghetti. Flesh resembles spaghetti when cooked. Good keeper.

Squash - Delicata Types

Variety	Relative Days	Color	Fruit Size Shape	Plant Type		Features
Bush Delicata	100	White With Green Stripes	6-7" Elongated	Bush	L	**AAS Winner!** Fine textured flesh with sweet flavor. Good storage and high yield potential.

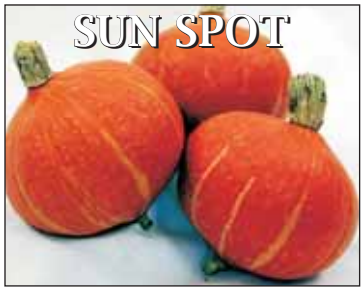
Please See Price List For Additional Varieties Which May Be Available

L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

SQUASH - WINTER (Cont.)

Squash - Buttercup Types

Variety	Relative Days	Color	Fruit Size Shape	Plant Type		Features
Buttercup Burgess	110	Dark Green	8-9x5"	Vine	L	Flesh is dry and sweet. Good storage ability.









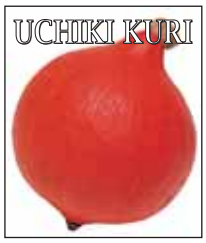
Squash - Hybrid Kabocha Types

Variety	Relative Days	Color	Fruit Size Shape	Plant Type		Features
Sun Spot	75	Dark Red Orange	6x4" Globe	Vine	L	A perfect size fruit for today's small household. Flesh is dry and dark orange; an excellent replacement for Gold Nugget.
Speckled Pup	85	Deep Green Red/Or Speckle	1.5 lbs Dp Oblate	Semi Bush	M	A very prolific squash for commercial, fresh market and export. Has shown some tolerance to ZYMV and PM2.
Sweet Mama	85	Deep Green	7x4" Flat Round	Compact Vine	L	AAS Winner! Deep yellow flesh. Sweet, nutty flavor. Excellent in Winter squash displays.
Delica	90	Deep Green	8x6" Flat Globe	Vine	L	The standard when it comes to kabochas. Early with high yields and good storage. Flesh is deep yellow.
Super Delite	100	Dark Green	4.5 lbs Oblate	Vigorous Vine	L	Very starchy texture with extremely sweet flavor. Dark green skin with a bright, deep yellow interior.

Squash - Hubbard Types

Variety	Relative Days	Color	Fruit Size Shape	Plant Type		Features
Uchiki Kuri F1	90	Orange Red	7x7" Globular	Vine	L	Almost smooth, orange-red rind. Creamy yellow, thick flesh, very sweet, nutty flavor. Very good quality. Takii strain.
Blue Kuri	90	Blue-Green	7x7"	Vine	L	Blue Kuri has a blue-green rind. Very sweet flavor. Blue Kuri is a counter part to Uchiki Kuri.
Blue Magic	90	Blue-Gray	5x7"	Semi-Bush	L	Miniature hybrid Blue Hubbard. Has true hubbard shape and traditional flavor. Great addition to Winter display.
Blue Hubbard	110	Blue-Gray	7x12"	Vine	L	A popular hubbard type with thick, fine textured, orange colored flesh. Very sweet flavor.
Golden Hubbard	110	Orange	11x9.5"	Vine	L	Slightly smaller than most hubbards. Flesh color is deep orange and very tasty. Stores well.
Marblehead	110	Cream w/ Blue Tint	12x15"	Vine	L	HARD TO FIND! A favorite in the NW for many years. Very good eating squash that averages 25-40 pounds.

Please See Price List For Additional Varieties Which May Be Available







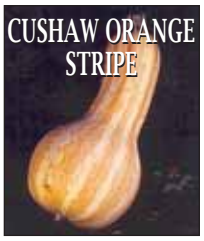


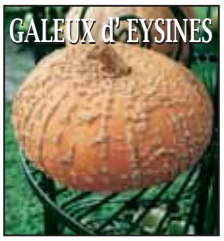


SQUASH - WINTER (Cont.)







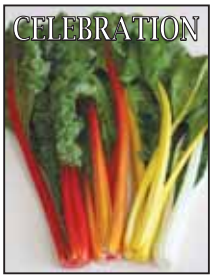




Squash - Specialty Types

Variety	Relative Days	Color	Fruit Size Shape	Plant Type		Features
Galeux d'Eysines	95-100	Pink With Beige Bumps	9-12 lbs	Vine	L	Raised bumps over skin surface resemble peanuts. French heirloom shaped like a wheel of cheese.
Speckled Hound	95-100	Lt Orange Green Splotches	3-6 lbs Oblate	Open Vine	M	Winter storage type with yellow-orange, thick, dense flesh with high dry matter. Remarkable flavor squash lovers look for. ZYMV(ir)
Sweet Dumpling	100	Cream With Green Stripes	4" Flat Round	Vine	L	**AAS Winner!** Colorful acorn shaped fruits. Flesh is bright yellow. Stores well. Excellent eating quality.
Sweet Meat	100	Blue-Green	9x5" Flat Globe	Vine	L	Great tasting flesh. Good for pies.
Turk's Turban	100	Variegated Red-White Turban	7x8" Turban	Vine	L	An ornamental and edible squash. Attractive for displays. Keeps well.
Pink Banana Jumbo	105	Pinkish Orange	20" Banana	Vine	L	Flesh is light orange with distinct sweet flavor.
Red Warty Thing	110	Red	20 lbs Round	Large Vine	L	A variety from the U.S. seed bank that makes an unusual addition to the decorative market. Good eating hubbard type flesh.
Cushaw Green Stripe	110	Creamy White w/ Green Stripes	8-12 lbs Long, Bulbous	Large Vine	L	Occasionally referred to as a pumpkin, this fruit has a long neck with a bulbous end. Use for pies and canning.
Cushaw Orange Stripe	110	Creamy White w/ Orange Stripes	8-12 lbs Long, Bulbous	Large Vine	L	Attractive creamy white with orange stripes. Use for pies and canning. Also good for ornamental use.
La Estrella	130	Tan w/ Green Stripes	10-12 lbs Round	Vine	M	Compact vines with very good production. Fruit are uniform in size with attractive flesh colors. Delicious!

SWISS CHARD







Swiss Chard

Variety	Relative Days	Plant Height	Leaf Type	Stem Type		Features
Bright Lights	56	20-25"	Slight Savoy	Stems of Many Colors	M	Milder taste than ordinary chard, with each color a bit different. Colorful bedding and other possibilities.
Celebration	55-60		Semi Savoy	Multi: Red, Yellow Pink, Orange, White	M	Uniform plant, dark green leaves on attractive multi-colored petioles, few whites.
Large White Ribbed	60	20-26"	Dark Green, With White Veins	Broad, Smooth White Petioles	L	A very uniform variety ideal for fresh market. White petioles. Uniform strain.
Rhubarb	60	20-24"	Dark Green, With Red Veins	Crimson, Slightly Flattened	L	Crimson stalks that resemble rhubarb. Leaves are heavily crumpled, broad and thick.
Peppermint	60-65		Savoy	Striped Pink to White	M	Savoy, uniform, dark green leaves. Bottom petioles are an attractive pink. Unique, in a class of its own.

L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

TOMATOES





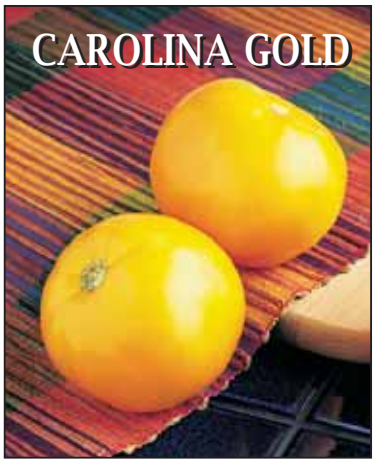




Hybrid Tomato - Fresh Market

Variety	Relative Days (TP)	Fruit Weight	Fruit Shape	Fruit Shoulder	Plant Habit	Disease	Features
HM 1823	Early	Large to X-Large	Round	Uniform Grn Shoulder	Determinate	V(Hr), F(Hr), For(Hr), Sl(IR), TYLCV(IR)	M Good color and firmness. Strong plant, high yield & disease package.
HM 8849 CR	Early	X-Large	Squatty Globe	Uniform Grn Shoulder	Determinate	For(r), F(r)1,2, St(r), V(r)	M Early maturing with a strong plant and good cover. XL fruit are smooth.
Valleycat	Mid Season	Large to Very Large	Round	Uniform Grn Shoulder	Determinate	N(r), F(r)0-1, LS(r), V(r)	M Good color and firmness for extended shelf life. Concentrated yield.
Mountain Spring	70	9 oz	Globe	Uniform Grn Shoulder	Determinate	V1, F1,2, St	M Excellent quality fruit tolerant to cracking. Outstanding yields.
Bobcat LZ	71	9 oz	Deep Oblate	Uniform Grn Shoulder	Determinate	V(r)1, F(r)1,2, St(r)	M A determinate beefsteak hybrid with good cover. Firm with good quality.
Celebrity	72	8 oz	Deep Oblate	Green Shoulder	Determinate	V(r)1, F(r)1,2, N(r), TMV(r), ASC(r), St(r)	M Widely adapted. Productive plants yield high quality, large smooth fruit.







Variety	Relative Days (TP)	Fruit Weight	Fruit Shape	Fruit Shoulder	Plant Habit	Disease	Features
QualiT 47	Main	Very Large	Deep Globe	Uniform Grn Shoulder	Determinate	V(hr), F(hr)0-1, TSWV(hr)	M Superior yield and quality compared to other commercial TSWV varieties.
Carolina Gold	75	9 oz	Deep Oblate	Uniform Grn Shoulder	Determinate	V(r)1, F(r)1,2	M Produces large, smooth fruit with yellow-gold color. Excellent yielder.
QualiT 23	75	8 oz	Deep Globe	Uniform Grn Shoulder	Determinate	V(r)1, F(r)1,2, TMV(r), St(t)	M Excellent quality with uniform fruit size and shape. Excellent firmness.

Please See Price List For Additional Varieties Which May Be Available

TOMATOES (Cont.)





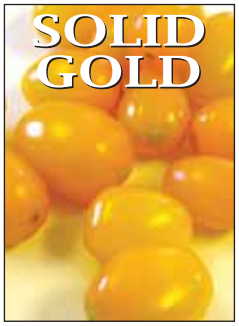


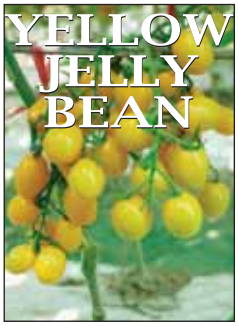
Hybrid Tomato - Cherry

Variety	Relative Days (TP)	Fruit Weight	Fruit Shape	Fruit Color	Plant Habit	Disease		Features
Tumbler	50	1 oz	Cherry	Red	Determinate		M	Early & productive. Fruit is large and very sweet. Hanging basket.
Sun Gold LZ	57	8-10 gr	Globe	Tangerine Orange	Indeterminate	F(t), TMV(t)	M	Vigorous plant yields all season. Best taste in our trials. Splitting tendency.
Sweet Millions	Early	10-15 gr	Small Globe	Red	Indeterminate	F(r)1, TMV(r)0-1	M	Very uniform & crack resistant. Good flavor with high yield and good vigor.
Sun Chocola	Early	25-30 gr	Large Round	Chocolate	Indeterminate		M	Chocolate colored tomato. Good for home gardeners. Easy to grow.
Sweet Treats LZ	Early	20-30 gr	Large Round	Deep Rich Pink	Indeterminate		M	Fruit has a beautiful deep pink tone. Rich flavor and great texture.
SunOrange NEW	65	14-16 gr	Round	Orange	Indeterminate	Fol:0, Tm-2A Cf9	M	Sun Gold improvement with better crack resistance with the same flavor.
Tomato Berry	Early	18-20 gr	Heart Shaped	Deep Red	Indeterminate		M	Special breed for home gardeners. Heart shaped fruit are very tasty.









Hybrid Tomato - Grape

Variety	Relative Days (TP)	Fruit Weight	Fruit Shape	Fruit Color	Plant Habit	Disease		Features
Sweet Hearts LZ	60-68	7-9 gr	Oval Grape	Red	Indeterminate	Cf(A-E)(t), F1(t) TMV(t)	M	Excellent flavor & shelf life, high brix, crack resistant, continuous set.
Solid Gold	Early-Mid	12-15 gr	Uniform Grape	Gold	Indeterminate	F(r)1	M	Uniquely colored grape with excellent flavor. Great crack resistance.
Yellow Jelly Bean	72	8-15 gr	Oblong Grape	Yellow	Indeterminate	V(t), F(t)1,2, ASC(t), St(t)	M	Very prolific with true yellow color and extended harvest. Great flavor.

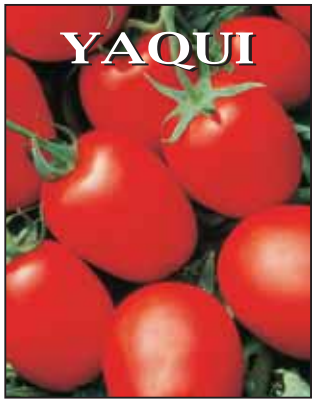
Please See Price List For Additional Varieties Which May Be Available

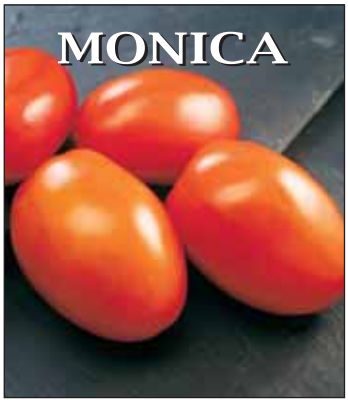
L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

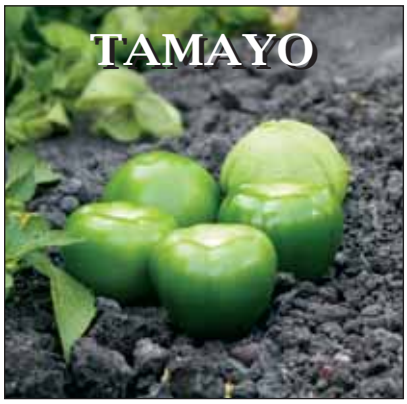
TOMATOES (Cont.)

Hybrid Tomato - Saladette (Roma)

Variety	Relative Days (TP)	Fruit Weight	Fruit Shape	Plant Habit	Disease		Features
Yaqui	75	3-3.7 oz	Blocky	Med-Large Determinate	ASC(r), F(r)1,2, N(r), St(r), V(r)1	M	Large sizes and very productive. A larger fruited variety.
Monica LZ	75	3-3.5 oz	Blocky	Medium Determinate	ASC(r), F(r)1,2, N(r), St(r), V(r)1	M	Widely adapted, has consistently produced yields of large fruit.
Meteoro	70-75	120-130 gr	Square Blocky	Determinate	F(r)1-3, V(r), N(r)	M	Consistent bright red color and very firm. High yield with good cover.



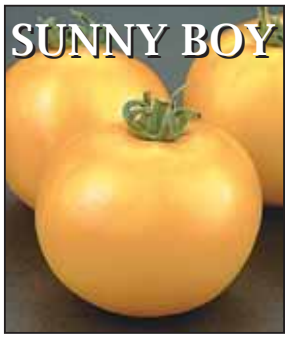




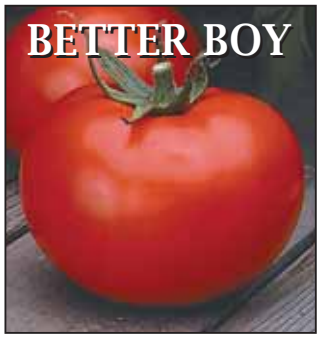
Tomatillo (Husk Tomato)

Variety	Relative Days (TP)	Fruit Weight	Fruit Shape	Plant Habit	Disease		Features
San Juanito	80	3 oz	Globe	Large Plant		M	High quality fruit with high yield of large three ounce fruit are perfect for salsa or chili verde.
Tamayo R	Main	Large	Globe	Semi Open		M	High fruit set with an intense green color, above average shelf life. Strong, Plant









Hybrid Tomato - Bedding Plant / Home Garden

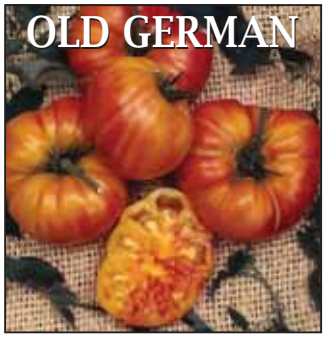
Variety	Relative Days (TP)	Fruit Weight	Fruit Shape	Plant Habit	Disease		Features
Early Girl	55	5 oz	Globe	Indeterminate	V(r)	M	Popular with home gardeners know for its fine flavor and good yields. Vigorous plant.
Super Sweet 100	70	1 oz	Cherry	Indeterminate	TMV(r), F(r), V(r)	M	Popular cherry variety with very sweet flavor. Yields over an extended period.
Sunny Boy	72	8 oz	Deep Globe	Indeterminate	ASC(r), F(r)1, V(r)1, N, St	M	Lemon colored flesh, sweet, juicy and unique. Excellent slicing tomato.
Big Beef	73	10 oz	Deep Globe	Indeterminate	ASC(r), F(r)1,2, V(r)1, N, St, TMV(r)	M	AAS Winner! Large sized fruit with excellent flavor. Great for bedding plants.
Better Boy	75	8 oz	Deep Globe	Indeterminate	ASC(r), F(r)1, V(r), St, N	M	Widely adapted. Very popular bedding plant and home garden variety.
Burpee's Big Boy	78	9 oz	Deep Globe	Indeterminate		M	Popular bedding plant/home garden variety. Large smooth. Good yields.

Please See Price List For Additional Varieties Which May Be Available

TOMATOES (Cont.)





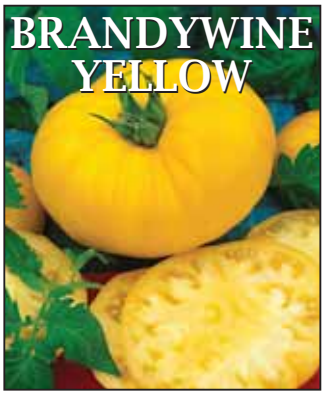


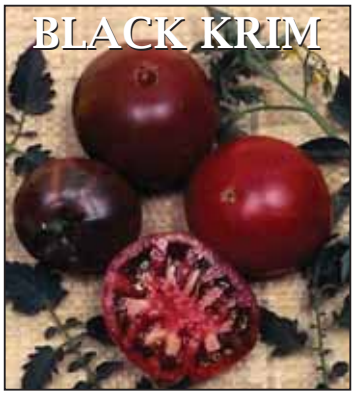


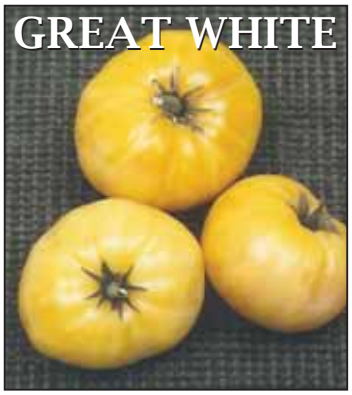
Tomato - Heirloom

Variety	Relative Days (TP)	Fruit Weight	Fruit Shape	Plant Habit		Features
Stupice	60	3-6 oz	Round	Indeterminate	M	Stupice is a two inch, slightly oval fruit that is a great early Summer tomato. Very tasty and cold tolerant.
Cherokee Purple	72	10-12 oz	Oblate	Compact Indeterminate	M	Relatively short, indeterminate vines with purple, black, red and brown flesh color. Very flavorful.
Old German	75	1lb +	Oblate	Indeterminate	M	Yellow fruit with a red center visible on the surface and throughout the core, often weighs over a pound.
Striped German	78	up to 2.5 lbs	Oblate	Indeterminate	M	Red and yellow in color. The fruit often weighing up to 2.5 pounds has a fruity flavor and is beautiful sliced.
Brandywine (Red)	78	16 oz	Oblate	Indeterminate	M	Considered to be the best tasting of the Brandywine series.
Oregon Spring	75-80	5 oz	Globe	Determinate	M	An early variety that produces many 3-5 ounce, meaty fruit. Almost seedless and great for sauces.
Brandywine (Pink)	80	8-16 oz	Oblate	Indeterminate	M	An old-timer prized for its incredible flavor. Medium to large sized fruit on an indeterminate vine.
Brandywine (Yellow)	80	Large	Oblate	Indeterminate	M	Indeterminate, fuzzy tomato leaf vine with large sized fruit that can weigh up to two pounds. Excellent flavor.





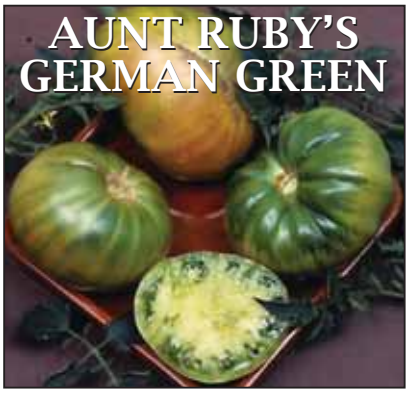


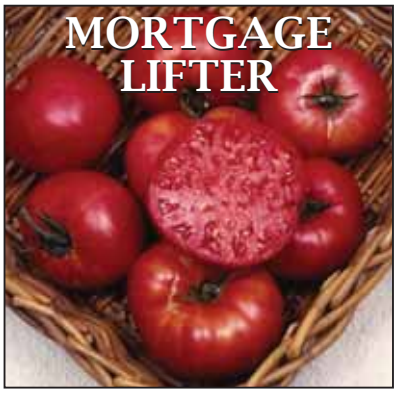


Variety	Relative Days (TP)	Fruit Weight	Fruit Shape	Plant Habit		Features
Black Krim	80	8-12 oz	Oblate	Indeterminate	M	Plants must be staked or caged. Dark red-purple fruit with delicate skin, full flavor and very juicy.
Great White	80-85	14-16 oz	Oblate	Indeterminate	M	The large, white fruit are mild with a low acid flavor. Vigorous, heavy indeterminate foliage.
Aunt Ruby's German Green	85	12-16 oz	Oblate	Indeterminate	M	Large green beefsteak with delicious, sweet and spicy flavor. Light green when ripe with a tint of yellow.
Dixie Gold Giant	85	2-2.5 lbs	Oblate	Indeterminate	M	Giant golden yellow tomato great for slicing. Sweet, mild taste. Some fruit weighs up to 2.5 pounds.

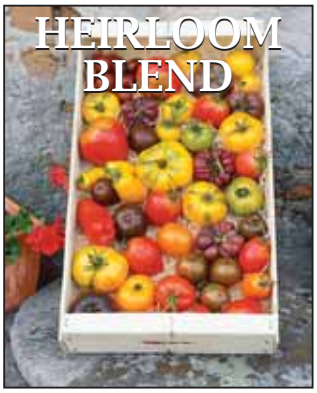
For a Large Selection of Open Pollinated Tomatoes Please See Price List

TOMATOES (Cont.)









Tomato - Heirloom						
Variety	Relative Days (TP)	Fruit Weight	Fruit Shape	Plant Habit		Features
Mortgage Lifter	85	1 lb	Oblate	Indeterminate	M	Large, well shaped fruit with dark pink skin. Fruit is very meaty with few seeds.
Mr. Stripey	85	9 oz	Oblate	Indeterminate	M	Fruit can be up to two pounds. The flesh is red and yellow with mottled, meaty flesh, mild flavor & low acid.
Pineapple	85	up to 2 lbs	Oblate	Indeterminate	M	Large fruit up to two pounds. Yellow streaked with red at blossom end. Flesh is yellow with pink streaks.
Abraham Lincoln	90	12 oz	Oblate	Indeterminate	M	Not as pure as the original Abe Lincoln, somewhat smaller fruit and earlier maturity. Distinctive flavor.
Heirloom Blend	80-100	Varies	Oblate	Indeterminate	M	A blend of our favorite heirlooms. Includes: Brandywine series, black, pink, red, yellow, purple, white and green.

For a Large Selection of Open Pollinated Tomatoes Please See Price List

TURNIP

Turnip						
Variety	Relative Days	Leaf	Root	Skin Color		Features
Tokyo Cross F1	35	Green	2-5" Globe	White	L	AAS Winner! Very early with perfectly smooth globe shape.
Purple Top White Globe	45	Green	Globe	White with Purplish Top	L	Root is fine grained, white globe and purple shoulders. Standard shipping variety.

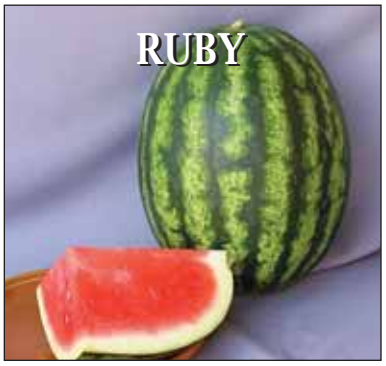
Please See Price List For Additional Varieties Which May Be Available



WATERMELON

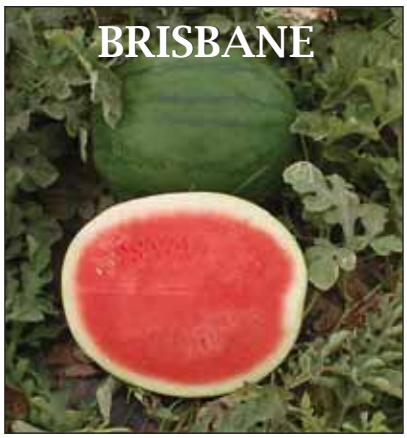


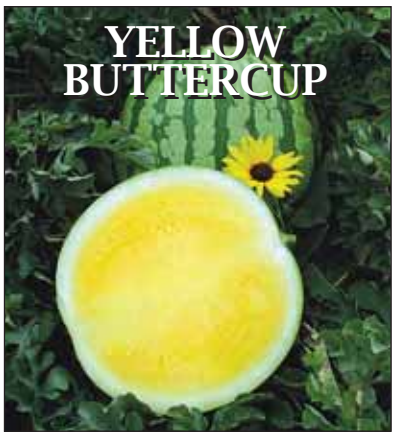


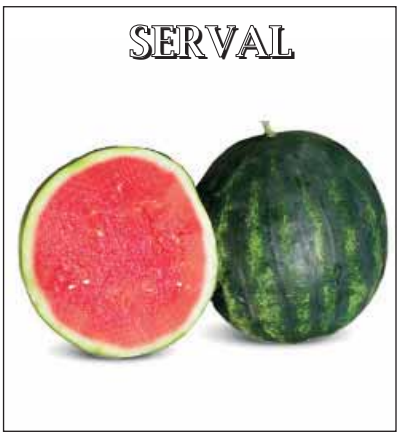


Hybrid Triploid Watermelon

Variety	Relative Days (TP)	Fruit Size	Fruit Shape	Rind Pattern	Flesh Color	Disease		Features
Sweet Gem	79	13-16 lbs	Globe	Glossy Dark Green	Dark Red		M	Good fruit set with excellent yield potential. Nice firm flesh, small pits and excellent flavor.
Butterball	82	12-15 lbs	Globe	Light Green with Dark Green Stripes	Bright Yellow	F(t)	M	Flesh is very sweet, crispy and firm. Good shipper. Sunburn tolerant. Excellent quality.
Fascination	83	16-20 lbs	Blocky	Rich Green with Med Crimson Stripes	Dark Red		M	Large seedless hybrid with a classy rind appearance. Firm flesh and very small pips.
Ruby	85	14-17 lbs	Round Oval	Med Green with Dk Green Stripes	Bright Red	F(t), A(t)	M	Very distinctive dark green stripe pattern. Flesh is very crisp. Brix were 12.2 in our trials.







Variety	Relative Days (TP)	Fruit Size	Fruit Shape	Rind Pattern	Flesh Color	Disease		Features
SV0258WA	Early-Mid	16-18 lbs	Round Oval	Dark Mottled Stripes	Dark Red	HR:A:1	M	Vigorous plant type and strong canopy protects from sunburn. Consistent fruit uniformity.
Brisbane	90	15-17 lbs	Round	Dark on Dark	Bright Red		M	Uniquely crisp and sweet flesh with high yield and early maturity make this variety great.
Yellow Buttercup LZ	90	14-16 lbs	Round Oval	Med Green With Dk Green Stripes	Bright Yellow		M	Crisp texture with great eating quality makes this a must for your growing schedule.
Exclamation	90	17-21 lbs	Blocky	Deep Green With Crimson Stripes	Bright Red	R: Co:1 Fon:1	M	Exclamation produces blocky, firm-fleshed fruit of uniform size with an attractive rind.

Please See Price List For Additional Varieties Which May Be Available

Hybrid Triploid Watermelon - Mini Fruited

Variety	Relative Days (TP)	Fruit Size	Fruit Shape	Rind Pattern	Flesh Color	Disease		Features
Serval LZ	Main	3.5-5.5 lbs	Round	Dark Crimson	Deep Red		M	Strong plant for excellent yield. Dark crimson rind with sweet, firm flesh.

Please See Price List For Additional Varieties Which May Be Available

L - sold per pound M - sold per thousand LZ - Logan-Zenner favorites

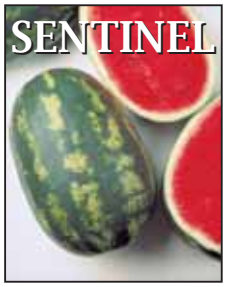
WATERMELON (Cont.)

Hybrid - Pollenizer

Variety	Relative Days (TP)	Fruit Size	Fruit Shape	Rind Pattern	Plant Habit	Features
Wild Card	Early	5-8 lbs	Round	Tiger Stripe	Spreading	M Non-harvested pollenizer with early and prolific male flowers to ensure maximum yield.
Minipool	85	5-8 lbs	Round	Light Green	Vigorous	M Excellent as pollenator for mini seedless. Crispy, sweet, dark red flesh. Uniform size and shape.





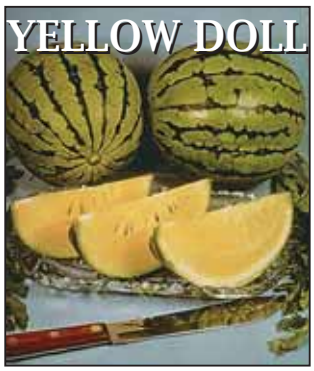


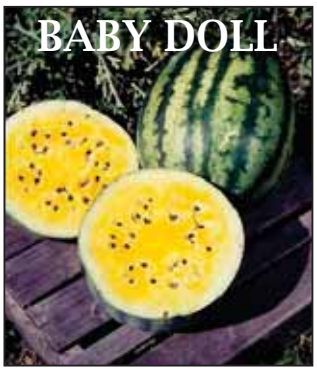


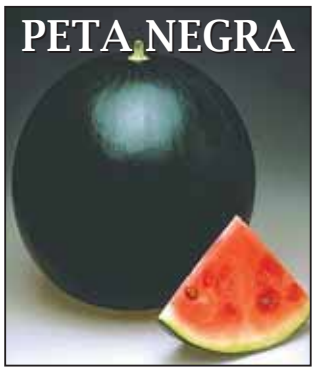
Hybrid Diploid Watermelon - Large Fruited

Variety	Relative Days (TP)	Fruit Size	Fruit Shape	Rind Pattern	Flesh Color	Disease	Features
Sentinel LZ	85	22-28 lbs	Blocky Oblong	Dk Green with Med Green Stripes	Deep Red		M A high yielding hybrid with thick rind. A good shipper. Excellent eating!
Sangria	87	20-23 lbs	Elongated	Dk Green with Lt Green Stripes	Deep Red	F(t), A(t)	M Allsweet type. Dark red flesh with high sugars. Very good eating quality.

Please See Price List For Additional Varieties Which May Be Available







Hybrid Diploid Watermelon - Ice Box Types

Variety	Relative Days (TP)	Fruit Size	Fruit Shape	Rind Pattern	Flesh Color	Disease	Features
Yellow Doll	68	5-7 lbs	Oval	Med Green with Dk Green Stripes	Yellow		M Quality interior and unusual appearance. Perfect for roadside stands & local markets.
Baby Doll	70	8-10 lbs	Round Oval	Med Green with Dk Green Stripes	Yellow		M Yellow flesh ice box type with yellow, crisp flesh. Uniform size with good yield potential.
Peta Negra aka Jade Star	75	12-15 lbs	Round	Uniform Dark Green	Bright Red		M Widely adaptable, good quality, large Sugar Baby type.

Watermelon - Open Pollinated

Variety	Relative Days (TP)	Fruit Size	Fruit Shape	Rind Pattern	Flesh Color	Disease	Features
Crimson Sweet	85	25 lbs	Round	Medium Green Thin Stripes	Medium Red		L Standard shipping melon. Widely adapted. Hollar's selection of Crimson Sweet.
Sunsugar PVP (Allsweet)	85	18-21 lbs	Blocky	Dk Green w/Broken Light Green Stripes	Bright Red		L Allsweet type that is very productive, delivering excellent fruit quality.

Please See Price List For Additional Varieties Which May Be Available

Logan-Zenner Seeds is a representative of Solex, Inc. agricultural equipment. Although parts and equipment are not inventoried we would be happy to discuss your equipment needs. However Solex Corporation, in Dixon, California has a vast inventory of parts ready for immediate shipment.

Checci & Magli

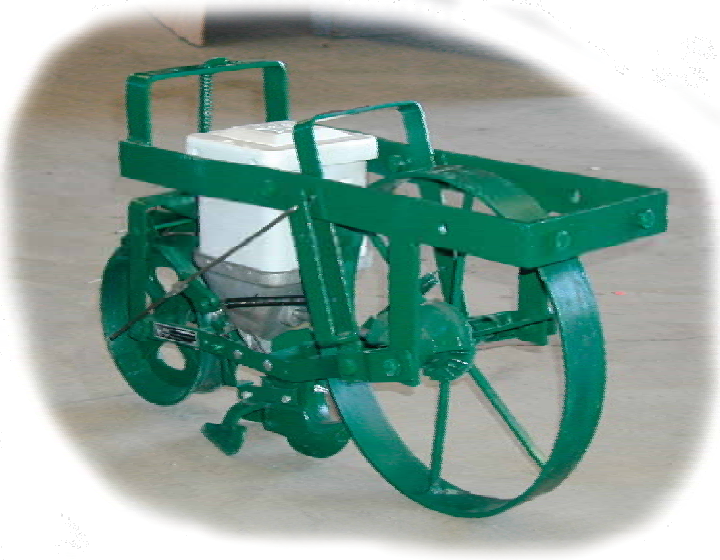
TRIUM

TRIUM is a total-control transplanter. Semi-automatic for tapered and pyramid-shaped clod plants up to 3cm in diameter. Driven by tire driving wheels. Suitable for plants with very developed leaves like tomatoes, cabbage, peppers, etc.

- Transplant units are independent and modular
- 10-cup rotating distributor ensures high output and standards of comfort for the operator



SOLEX SEEDER



The SOLEX SEEDER is built of cast iron and steel for quality you can count on for years. The dirt scraper is spring loaded to prevent build up on the press wheel. The press wheel is almost 3" wide with a concave design. An adjustable floating cover pulls dirt over the seed. Large capacity 5 quart hopper is standard. Four inches of float designed into the hitch permits each drill to follow the contours of the ground independently. Enclosed gear drive provides positive power. SOLEX SEEDER parts are tested 100% interchangeable with Planet Jr.™ seeders so you can be sure parts and accessories provide exact replacements for your older Planet Jr.™.

For all equipment inquiries:

Contact Your Salesman

Logan-Zenner Seeds, Inc. handles a complete product line of the following equipment:

- Solex
- Planet Junior
- Seed Spider
- Stanhay
- Checci & Magil
- Gaspardo

All pricing and availability on request.

Vegetable Seed Planting Chart

	avg. seed count/pkt.	avg. seed count/oz.	avg. seed count/lb.	required per acre direct seeded	required per acre # transplants	post thinning distance in row	post thinning distance between rows		soil temp.	appr. days to germ.
Beans, Bush & Pole	200	100	1600	50-90 lbs.		2-3”	18-36”	1-2”	70°F	6-10
Beans, baby lima	200	100	1600	40-70 lbs.		3-4”	18-24”	1-1.5”	70°F	6-10
Beans, large lima	40-50	25	400	75-100 lbs.	3-4”	24-36”	1-2”	70°F	6-10	
Beans, fava	40-50	20	300	70-120 lbs.		4-5”	18-24”	1-2”	50°F	6-10
Beet	450	1750	17M-44M	3-5 lbs.		1-4”	18-24”	.5-.75”	60°F	7-14
Broccoli	75	7500	80M-150M	.5 lbs.	11-15M	15-18”	24-40”	.25-.5”	70°F	6-10
Brussels Sprout	75	7500	65M-165M	.5 lbs.	11-15M	16-24”	18-36”	.25-.5”	70°F	6-10
Cabbage	100	7500	80M-120M	.5 lbs.	11-15M	10-24”	24-40”	.25-.5”	70°F	6-10
Carrot	1000 raw/350 pltd	19000	175M-390M	3 lbs.		2-3”	18-24”	.25-.5”	60°F	12-18
Cauliflower	75	7500	80M-150M	.5 lbs.	11-15M	15-18“	24-30”	.25-.5”	70°F	6-10
Celery	N/A	67000	1000M	-----	45M	6-8“	24-36”	.125”	75°F	14-21
Collards	300	6250	80M-120M	1-2 lbs	20M	10-14“	18-24”	.25-.5”	50°F	6-10
Corn (su & sb)	250	170	2500-3000	8-9 lbs.		8-10“	30-36”	1-2”	55-60°F	6-10
Corn (se & sy)	250	200	3000-3500	6-7 lbs.		8.10“	30-36”	1-2”	60-65°F	6-10
Corn (sh & sh2)	250	220	3000-4000	5-7 lbs.		8-10“	30-36”	.5-1.5”	65°F	7-12
Corn (pop & sm orn.)	100-300	375	6000	3-4 lbs.		8-10“	30-36”	.5-1”	65°F	7-12
Corn (ornamental)	100	100	1700	8-10 lbs		10-12“	30-36”	1-2”	65°F	6-10
Cucumber, slicers	50	1000	16M	1-1.5 lbs.	7.5-10M	12-18“	4.5-6’	.5-1”	70°F	6-10
Cucumber, pickles	50	1000	16M	1-1.5 lbs	7.5-10M	12-18“	4.5-6’	.5-1”	70°F	6-10
Eggplant	35	6250	100M	1 lbs.	10-11M	18-24“	24-30”	.25-.5”	80°F	7-14
Endive (pelleted)	225	750	12-13M	4 lbs.	30M	8-10“	18-24”	.25-.5”	60°F	5-10
Escarol (pelleted)	225	750	12-13M	4 lbs.	30M	8-10“	18-24”	.25-.5”	60°F	5-10
Gourd, sm fruited	50	600	7-11M	1 lbs.		16-20“	8-10”	1-1.5”	70°F	6-10
Gourd, lg fruited	50	200	3M	2 lbs.		18-24“	8-10”	1-1.5”	70°F	6-10
Kale	400	8500	115M-150M	.5 lbs.	15-20M	12-18“	24-36”	.5”	50°F	6-10
Kohlrabi	125	8500	115M-150M	.5 lbs.	20M	12-18“	18-24”	.5”	60°F	5-10
Leek	600	10600	170M	2 lbs.	90M	2-4“	12-30”	.5”	60-70°F	7-12
Lettuce (raw)	1500	26500	425M	.5 lbs.	70-80M	4-8“	12-18”	.25-.5”	60-80°F	6-10
Lettuce (pelleted)	225	1-2M	15M-30M	2.5-5 lbs.	70-80M	4-8“	12-18”	.25-.5”	60-80°F	6-10
Melon	30	1125	18M	.5 lbs.	4M	18-24“	6-8”	.75”	80°F	4-8
Mustard	N/A	17000	270M	2 lbs.		3-5“	12-24”	.25”	50°F	5-10
Okra	50	500	8M	4-5 lbs.	12M	12-24“	24-36”	.75-1”	75-80°F	7-14
Onion, bulb	450	7500	100M-130M	2 lbs.	100M	2-4“	18-24”	.5”	60°F	7-12
Onion, Jap bunching	700	12500	200M	7-8 lbs.		.5-1“	12-18”	.5”	60°F	7-12
Onion, US bunching	700	6900	110M	13-14 lbs.		.5-1“	12-18”	.5”	60°F	7-12
Parsley	300	18100	290M	0.5 lbs		3-5“	24-30”	.25”	60°F	14-28
Parsnip	450	6250	100M	3 lbs.		2“	18-24”	.25-.5”	60°F	14-28
Peas	250	125	2M	100-120 lbs.		1-3“	24-36”	1-2”	50°F	6-12
Pepper	45	4400	70M	1 lbs.	17M	15-18“	18-36”	.25-.5”	80°F	10-20
Pumpkin, vine	25	125-250	2M-4M	1-1.5 lbs.	2M	20-36“	3-12’	1-1.5”	70°F	6-10
Pumpkin, bush	25	250-375	4M-6M	1-2 lbs	3.5M	20-24“	3-8’	1-1.5”	70°F	6-10
Pumpkin, mini	25	450	7500	.5 lbs.	3.5M	16-20“	3-6’	1-1.5”	70°F	6-10
Radish	1000	3125	30M-75M	10 lbs.		1“12	12”	0.25-.5”	50°F	3-10
Rutabaga	800	9400	150M	1 lbs.		4-6“	12-24”	.5”	60°F	5-10
Spinach	350	2800	25M-70M	4-5 lbs.		3-6“	12-18”	.5”	50°F	6-16
Sqaush, summer	30	250	4M	4 lbs.	9M	12-18“	3-6”	1-1.5”	70°F	6-12
Squash, winter (sm)	30	280	4.5M	2-4 lbs.	3.5M	18-36“	6-9”	1-1.5”	70°F	6-12
Squash, winter (lrg)	30	125	2M	4-5 lbs.	3.5M	18-36“	6-9”	1-1.5”	70°F	6-12
Sunflower	N/A	220	3500	5-7 lbs.		9-12“	30-36”	1-1.5”	70-75°F	8-10
Swiss chard	125	1900	20M-30M	5-6 lbs.		2“	24”	.5-.75”	60°F	7-14
Tomato	40	10900	160M-190M	1 lbs.	7.5M	18-36“	3-6’	.25-.5”	75°F	7-14
Turnip	800	12000	192M	1.5-2 lbs.		3-4“	12-24”	.25-.5”	60°F	5-10
Watermelon (seeded)	30	475	5M-10M	1-2 lbs.	2.5M	24-36“	6-9”	.75”	80°F	5-12
Watermelon (seedless)	N/A	590	7M-12M		2.5M	24-36“	6-9”	.75”	90°F	5-12

Definitions

Abbreviation	Disease	Abbreviation	Disease
Alt	Alternaria	**NCLB**	Northern Corn Leaf Blight
A	Anthracnose	**NY 15**	New York 15
ALS	Angular Leaf Spot	**P**	Pith
ASC	Alternaria Stem Canker	**PeaMV**	Pea Enation Mosaic Virus
BBS	Bacterial Brown Spot	**PeMV**	Pepper Mottle Virus
BFB	Bacterial Fruit Blotch	**PHY**	Phytophthora
BCMV	Bean Common Mosaic Virus	**PLRV**	Pea Leaf Roll Virus
BH	Bolt Hardy	**PM**	Powdery Mildew
Botrytis	Botrytis	**PRR**	Pink Root Rot
BL	Black Leg	**PRSV**	Papaya Ring Spot
BLS	Bacteria Leaf Spot	**PVY**	Potato Virus Y
BR	Black Rot	**(r)**	Resistant
BS	Black Speck	**R**	Rust
CalMV	Calico Mosaic Virus	**RZ**	Rhizoctonia
Cf(A-E)	Leaf Mold Race A-E	**S**	Sulfur
CLS	Cerospora Leaf Spot	**Sc**	Scab
CMV	Cucumber Mosaic Virus	**SCLB**	Southern Corn leaf Blight
CR	Clubroot	**SR**	Soft Rot
CRR	Corky Root Rot	St	Stemphyllium/Gray leaf Spot
CS	Smut	**Stip**	Stip
CTV	Curly Top Virus	**SW**	Stewart's Wilt
CW	Common Wilt	**(t)**	Tolerant
DH	Drought Hardy	**Th**	Thrip
DM	Downy Mildew	**TB**	Tip Burn
F	Fusarium Wilt	**TEV**	Tobacco Etch Virus
FBR	Fusarium Basal Rot	**TMV**	Tobacco Mosaic Virus
FY	Fusarium Yellows	**Tobamo Po**	Tobamo Virus
GSB	Gummy Stem Blight	**ToMV**	Tomato Mosaic Virus Race 1
HB	Halo Blight	**TSWV**	Tomato Spotted Wilt Virus
(ir)	Intermediate Resistance	**V**	Verticillium
LMV	Lettuce Mosaic Virus	**WFB**	Watermelon Fruit Blotch
LS	Leaf Spot	**WMV**	Watermelon Mosaic Virus
MDMV	Maize Dwarf Mosaic Virus	**WPSV**	Western Pea Streak Virus
Mi	Root Knot	**YSV**	Yellow Strip Virus
N	Root-Knob Nemetodes	**ZYMV**	Zucchini Yellow Mosaic Virus

- (I) - The dominant (I) gene gives protection against seed transmission of all strains of Bean Common Mosaic Virus.
- GYNOECIOUS: A term used to refer to a plant producing only female flowers.
- MONOECIOUS: A plant that has separate male (staminate) and female (pistillate) flowers.
- Footnote To Sweet Corn: The Rp 1-d, Rp1-g and Rp1-i genes confer resistance to certain races of common rust, including all races typically found in North America through 1998. However, in 1999, common rust pustules were found on varieties containing the Rp 1-d gene. This is an indication that there is a new race of common rust, which is not controlled by the Rp 1-d gene. Researchers have found this new race in most corn growing areas of North America. In 2001, common rust pustules were also found on varieties that contain the Rp 1-g gene and varieties that contain the Rp 1-i gene. This is an indication that there is more than one new race of common rust in the environment. The common rust races identified in 2001 were not controlled by any of the single genes Rp 1-d, Rp 1-g or Rp 1.i. The effectiveness of rust genes in sweet corn will be determined by the variation of common rust in each growing area.
- DETERMINATE: Bush variety tomatoes that do not require pruning or support and have concentrated set habits.
- INDETERMINATE: Climbing tomatoes that should be staked and pruned for best results; extended ripening period.

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UNITS OF AREA

ACRES	METRIC
1 square mile/640 acres	259 hectares / 2.58 sq kilometers (km)
.3861 square miles/247acres	100 hectares / 1 square kilometer
24.71 acres	10 hectares
10 acres	4.047 hectares
2.471 acres	1 hectare
1 acre	.4047 hectare

ROW LENGTH PER ACRE/HECTARE

at Various Row Spacings

Distance Between Rows		Length of Row	
Inches	Metric	Feet/Acre	Metric/Hectare
12 inches	30/48 centimeters	43,560	5.373 kilometers
18 inches	45.72 centimeters	29,040	3.582 kilometers
20 inches	50.80 centimeters	26,136	3.224 kilometers
24 inches	61.96 centimeters	21,780	2.686 kilometers
30 inches	76.20 centimeters	17,424	2.149 kilometers
36 inches	91.44 centimeters	14,520	1.798 kilometers
40 inches	1.016 meters	13,068	1.612 kilometers
42 inches	1.067 meters	12,445	1.535 kilometers
48 inches	1.219 meters	10,890	1.343 kilometers
60 inches	1.524 meters	8,712	1.075 kilometers
72 inches	1.829 meters	7,260	895.49 meters
84 inches	2.134 meters	6,223	767.59 meters
96 inches	2.438 meters	5,445	671.62 meters

TEMPERATURE

°F	°C
230	110
212	100
194	90
176	80
158	70
140	60
122	50
104	40
86	30
68	20
50	10
32	0
14	-10
-4	-20

UNITS OF LENGTH

FEET - INCHES	METRIC
1 mile/5,280 feet	1.6093 kilometers
.6214 mile	1,000 meters/1 kilometer
328.1 feet	100 meters
3.281 feet	100 centimeters (cm) / 1 meter
1 yard/3 feet/36 inches	91.44 centimeters (cm)/ .9144 meter
1 foot/12 inches	30.48 centimeters (cm)/ .3048 meter
1 inch	2.54 centimeters
.3937 inch	1 centimeter

LIQUID MEASURE

GALLON - OUNCES	METRIC
2.642 gallons	10 liters
1 gallon	3.7852 liters
1.0567 quarts	1 liter
1 quart/32 fluid ounces	.9463 liter
1 pint/16 fluid ounces	.4732 liter
1 cup/8 fluid ounces	.2366 liter
1 fluid ounce	.0295 liter

UNITS OF WEIGHT

POUND - OUNCE	METRIC
220.46 pounds	100 kilograms (kg)
100 pounds	45.359 kilograms (kg)
2.204 pounds	1 kilogram (kg)
1.102 pounds	500 grams (g)
1 pound/16 ounces	453.59 grams (g)
8 ounces	226.78 grams (g)
4 ounces	113.39 grams (g)
3.527 ounces	110 grams (g)
2 ounces	56.70 grams (g)
3/4 ounce	21.25 grams (g)
1/2 ounce	14.17 grams (g)
1/4 ounce	7.08 grams (g)
1/8 ounce	3.54 grams (g)
1/16 ounce	1.77 grams (g)
1/32 ounce	885 milligrams (mg)
1/64 ounce	442 milligrams (mg)
1/128 ounce	221 milligrams (mg)

Percentage of Normal Vegetable Seedlings Produced at Different Soil Temperatures

Seeds will germinate at a wide range of temperatures. However, there is an optimal temperature that will maximize production time. This chart shows the percentage of seedlings produced at various temperatures and the number of days until seedling emergence at each temperature shown in ( ).

The **numbers in red** = the optimal daytime soil temperature for maximum production in the shortest time.

Crops	32°F	41°F	50°F	59°F	68°F	77°F	86°F	95°F	104°F
Asparagus	0	0	61% (53 d)	80% (24 d)	88% (15 d)	95% (10 d)	79% (12 d)	37% (19 d)	0
Beans, Lima	0	0	1	52% (31 d)	82% (18 d)	90% (7 d)	88% (7 d)	2%	0
Beans, Snap	0	0	1	97% (16 d)	90% (11 d)	97% (8 d)	47% (6 d)	39% (6 d)	0
Beets	0	53% (42 d)	72% (17 d)	88% (10 d)	90% (6 d)	97% (5 d)	89% (5 d)	35% (5 d)	0
Cabbage	0	27	78% (15 d)	93% (9 d)	97% (6 d)	99% (5 d)	70% (4 d)	0	0
Carrots	0	48% (51 d)	93% (17 d)	95% (10 d)	96% (7 d)	96% (6 d)	95% (6 d)	74% (9 d)	0
Cauliflower	0	0	58% (20 d)	60% (10 d)	62% (6 d)	63% (5 d)	45% (5 d)	0	0
Celery	0	72% (41 d)	70% (16 d)	40% (12 d)	97% (7 d)	65%	0	0	0
Cucumber	0	0	0	95% (13 d)	99% (6 d)	99% (4 d)	99% (3 d)	99% (3 d)	49
Eggplant	0	0	0	0	21% (13 d)	53% (8 d)	60% (5 d)	0	0
Lettuce	98% (49 d)	98% (15 d)	98% (7 d)	99% (4 d)	99% (3 d)	99% (2 d)	12% (3 d)	0	0
Muskmelon	0	0	0	0	38% (8 d)	94% (4 d)	90% (3 d)	0	0
Okra	0	0	0	74% (27 d)	89% (17 d)	92% (13 d)	88% (7 d)	85% (6 d)	35% (7 d)
Onions	90% (136 d)	98% (31 d)	98% (13 d)	98% (7 d)	99% (5 d)	97% (4 d)	91% (4 d)	73% (13 d)	2
Parsley	0	0	63% (29 d)	0% (17 d)	69% (14 d)	64% (13 d)	50% (12 d)	0	0
Parsnips	82% (172 d)	87% (57 d)	79% (27 d)	85% (19 d)	89% (14 d)	77% (15 d)	51% (32 d)	1	0
Peas	0	89% (36 d)	94% (14 d)	93% (9 d)	93% (8 d)	94% (6 d)	86% (6 d)	0	0
Peppers	0	0	1	70% (25 d)	96% (13 d)	98% (8 d)	95% (8 d)	70% (9 d)	0
Radish	0	42% (29 d)	76% (11 d)	97% (6 d)	95% (4 d)	97% (4 d)	95% (3 d)	0	0
Spinach	83% (63 d)	96% (23 d)	91% (12 d)	82% (7 d)	52% (6 d)	28% (5 d)	32% (6 d)	0	0
Sweet Corn	0	0	47% (22 d)	97% (12 d)	97% (7 d)	98% (4 d)	91% (4 d)	88% (3 d)	10
Tomatoes	0	0	82% (43 d)	98% (14 d)	98% (8 d)	97% (6 d)	83% (6 d)	46% (9 d)	0
Turnips	1	14	79% (5 d)	98% (3 d)	99% (2 d)	100% (1 d)	99% (1 d)	99% (1 d)	88% (3 d)
Watermelon	0	0	0	17%	94% (12 d)	90% (5 d)	92% (4 d)	96% (3 d)	0

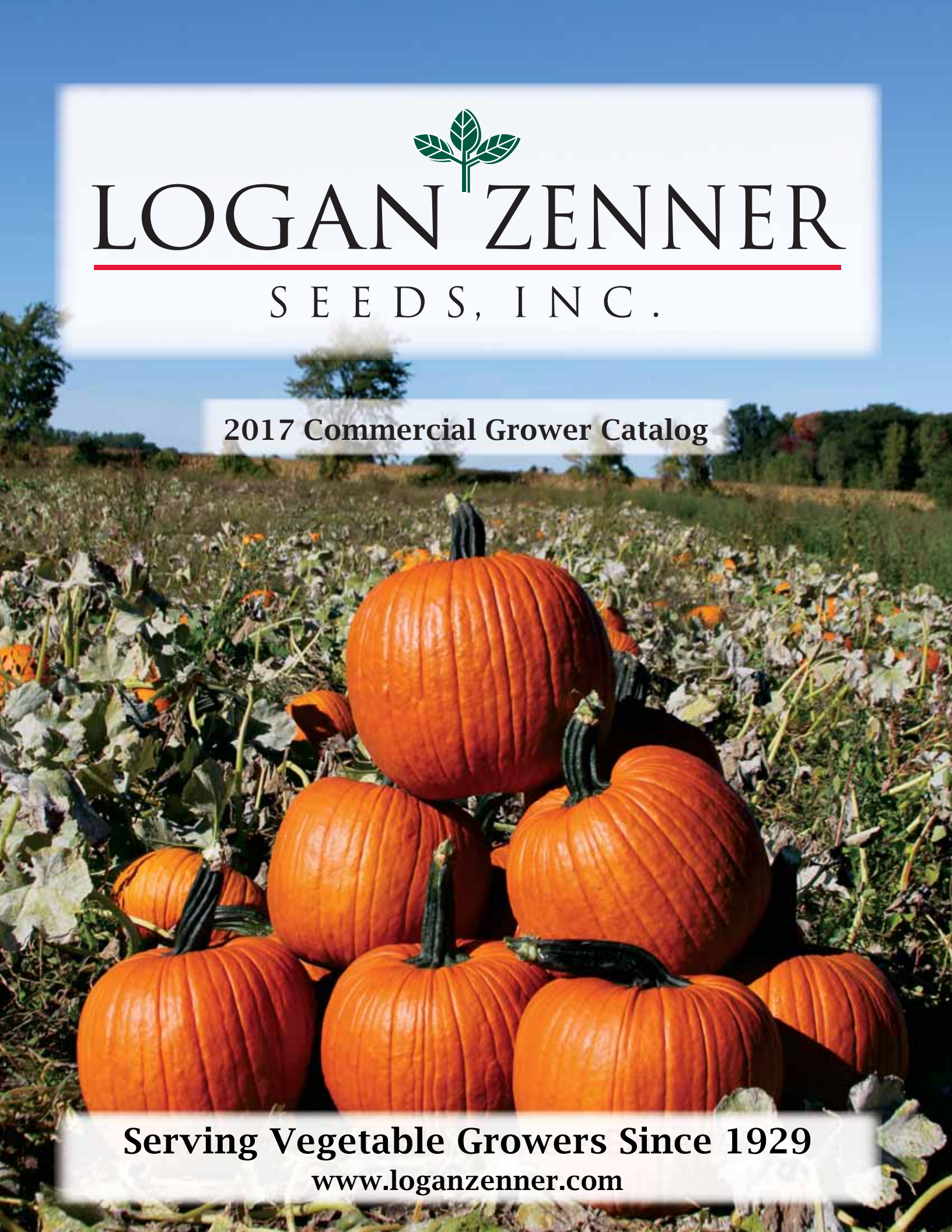
- The above table was derived from experimental data. Certain logical inconsistencies exist due to crop failure. This does not interfere with the overall interpretation.

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