



2019 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:



Logan Zenner Is An Authorized Dealer For Solex, Inc. Agricultural Equipment
See Page 63 For More Information or Contact Your Salesman

PLEASE READ CAREFULLY BEFORE ORDERING

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We do our best to secure non-treated seeds and in some cases organically grown seed for the needs of organic growers. However, prices and minimum quantities available may vary from those listed in our price list and not all varieties listed may be available non-treated. It is very important to place your order before January 1st to help secure availability of the varieties you need.

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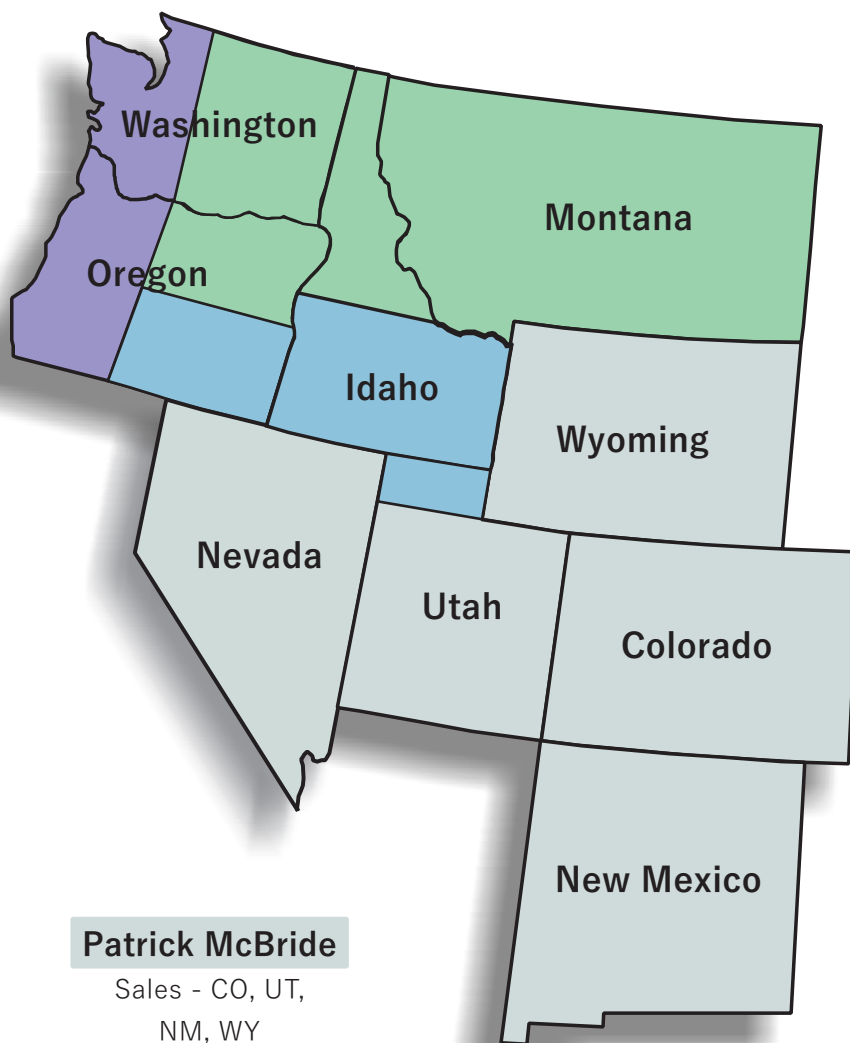
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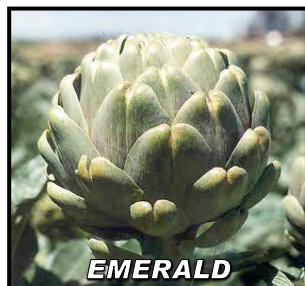
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VARIETAL INFORMATION

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.

Artichokes

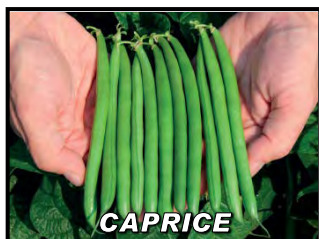
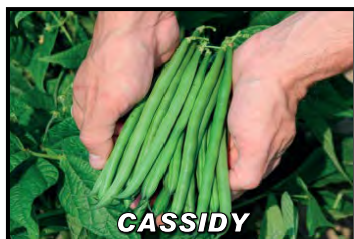
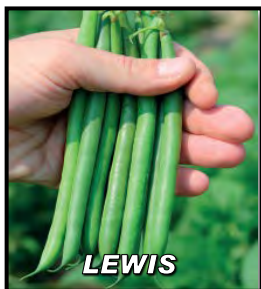
Artichoke		
Variety	Features	
Green Globe	L	Perennial plant valued for its tender, edible flowers. Globe shaped fruit is 2-5" in diameter with thick flavorful hearts. Medium deep-green with light purple tinge.
Emerald	M	Plant is open and erect; buds are on long stems for easy harvest. Fruits are oval 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.



Beans

Beans - Bush Round Pod									
Variety		Relative Days	Pod Size	Pod Color	Seed Color	Sieve Size	Disease	U/ M	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		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"	Med 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		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.
Royal Burgundy		55	6"	Purple	Bluff	4		L	Eye catching color and great flavor. Purple pods turn green when cooked.
Cassidy		56	5.25"	Med 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		56	5.5"	Med 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"	Med 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.
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.
Fandrango (Paulista)		62	5.5-6"	Dark Green	White	3	A(r), BCVM	M	Erect plant allows for easy harvest of straight, slender beans. Excellent yield potential.

Beans (cont.)



Beans - Bush Yellow Wax								
Variety	Relative Days	Pod Size	Pod Color	Seed Color	Sieve Size	Disease	U/M	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.
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.
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.

Beans - Garbanzo					
Variety	Relative Days	Pod Length	Color	Seed Color	U/M
Sierra	Mid-Late	.75"	Tan	Tan	L

Beans - Bush Lima					
Variety	Relative Days	Pod Length	Color	Seed Color	U/M
Fordhook 242	70	4-5x1"	Med Green	White	L

Beans (cont.)

Beans - Bush Fava/Broad

Variety	Relative Days	Pod Length	Color	Seed Color	U/M	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.

Beans - Bush Flat Pod

Variety	Relative Days	Pod Size	Pod Color	Seed Color	Disease	U/M	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.



FURANO



ROMA II



TEGGIA



FRENCH HORT

Beans - Horticultural

Variety	Relative Days	Pod Length	Color	Seed Color	U/M	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 Streaked	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	U/M	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".



BEER FREIND



BESWEET 292



BLUE LAKE FM1K



KENTUCKY WONDER 65

Beans - Pole

Variety	Relative Days	Pod Length	Color	Seed Color	U/M	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	65	7-9"	Green	Brown	L	Hardy plant the is very prolific and widely adapted. One of the most widely used varieties.

Beets

Beets - Hybrid Beets								
Variety	Relative Days	Root Shape	Root Color	Top Height	Top Color	Disease	U/M	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	53-55	Round Globe	Dark Red	Upright	Glossy Green		M	Zeppo is a fast growing hybrid perfect for bunching. A grower favorite due to its 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.
Carillon RZ	60	Long Cigar	Deep Red	Short 12-14"	Bright Green		M	Long rooted cylindrical red beet with good internal color which is ideal for slicing and pickling. Strong upright foliage with high yield.
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 russetting.

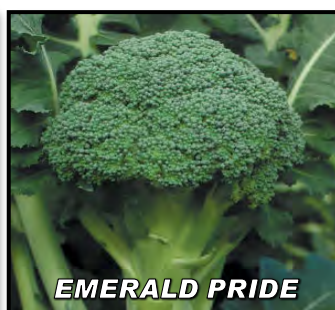
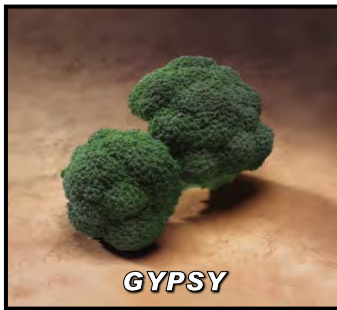
Beets - Open Pollinated								
Variety	Relative Days	Root Shape	Root Color	Top Height	Top Color	Disease	U/M	Features
Chioggia Guardsmark	52	Globe	Bi-Color	Med.	Green		M	A beautiful bi-colored, scarlet red, garden beet with interior rings of reddish-pink and white.
Detroit Supreme	59	Smooth Globe	Dark 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.



Broccoli

Broccoli - Hybrid Broccoli

Variety	Relative Days	Plant Height	Head Type	Bead Size	Color	Disease	U/M	Features
Green Magic	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	Small-Med	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	Dom	Small	Blue-Green		M	Highly adaptable with high dome, small bead and heavy head. Sizes well in cold.



Broccoli - Purple Sprouting



Variety	Relative Days	Head Size	Color	Plant Height	U/M	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	190	Broccolini Spears	Purple	Upright	M	Overwinter type. Good Cold tolerance with high yields. Upright plant with an abundance of beautiful purple spears.

Broccoli - Raab (Rapini)

Variety	Relative Days	Color	U/M	Features
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	U/M	Features
Confidant	 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	 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.



CONFIDANT




FRANKLIN



CAPITOLA

Cabbage

Cabbage - Hybrid Fresh Market Cabbage - Green

Variety	Relative Days	Color Size	Head Type	U/M	Disease	Features
Fast Vantage	60	Medium Green 2.75 lbs	Round	M		Uniform variety that performs well in early, cool season slot.
Farao	 62	Medium Green 3-3.5 lbs	Round	M	TB(t), T(t)	Sweet, dense head; short core. Good field holding. Reliable variety for early fresh market.
Crystal Vantage	65	Green 3-4 lbs	Round	M	Foc(hr)1	Crystal Vantage is easy to grow, early to mature with good head size and disease resistance.
Artost	67	Blue-Green 3-.5 lbs	Round	M	FY(r), TB(t)	Attractive, uniform heads with good field holding ability.
Charmant	72	Blue-Green 2.5 lbs	Round	M	TB(r), FY(r), BR(t)	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	M	CR	Early to main season cabbage with high yield and good size. Kilagreg offers peace of mind for growers with club root issues.
Expat	88	Blue-Green 3-6 lbs	Round	M	Foc(hr), TB(hr)	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	M	TB(t), FY(r)1, BS(t) BR(t)	Mid-late season maturity. Large dense heads and a well filled interior makes this variety suited for long distance shipping.
Tekila	95	Blue-Green 5-6 lbs	Round	M	CR , Foc(hr)1	High resistance to Club Root and Fusarium. Good field storage with good quality dense heads. Medium core and good wrapper leaves.



**CRYSTAL
VANTAGE**



CHARMANT



EXPAT



VANTAGE POINT


Cabbage (Cont.)

Cabbage - Hybrid Fresh Market Cabbage - Red

Variety	Relative Days	Color Size	Head Type	U/M	Disease	Features
Red Dynasty	70	Deep Red 3-4 lbs	Round To Oval	M	TB(t), BR(t)	Good uniformity of size and shape. Intermediate black rot resistance. Holds well. Good internal color.
Primero	72	Deep Red 2-3 lbs	Round	M	BL(t), TB(t)	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.



Cabbage - Hybrid Processing Cabbage

Variety	Relative Days	Color Size	Head Type	U/M	Disease	Features
Krautman	78	Green Very Large	Round	M	TB(t)	Medium to large frame produces round, well wrapped, high density head. Suitable for Mechanical harvest. Medium dry matter.
Kaitlin	 94	Green Very Large	Round	M	FY(r), TB(t)	Vigorous, dense heads with short cores. Excellent field holding for kraut/slaw. Cuts well mechanically.

Cabbage - Hybrid Storage Cabbage

Variety	Relative Days	Color Size	Head Type	U/M	Disease	Features
Bartolo	115	Dark Green 4-8 lbs	Round	M	BS(t), TB(t)	A proven high yielder developed for long term storage and processing. Dense structure with short core. Very good holding ability.



Cabbage - Savoy Cabbage

Variety	Relative Days	Color Size	Head Type	U/M	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	M	TB(t)	Frost tolerant solid heads ideal for late fresh market. Stores up to six months.

Cabbage (Cont.)



Cabbage - Hybrid Chinese Cabbage

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



Pak Choi

Pak Choi

Variety	Relative Days	Plant Habit	U/M	Head Characteristics	Features
Mei Qing Choi	35-40	Erect, Compact	M	Green petiole, Tight vase-like shape	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	50-55	Semi-Erect	M	Bright green leaves	Slow bolting, with excellent uniformity. Widely adaptable. White petioles can get large.

Carrots

Carrots - Hybrid Fresh Market Nantes Types

Variety	Relative Days	Root Size	Shape	Tops	U/M	Use	Features
Mokum	56	6x.75"	Cylindrical Slight Taper	9"	M	Bunching, Finger Carrot	Very high colored. Almost coreless. A sweet, early bunching carrot with early color development. Excellent local market.
Goldfinger	Early	5-6x1"	Cylindrical Blunt	12"	M	Bunching	Very uniform root with sweet flavor. Attractive deep orange color. Strong upright top and bolt tolerant. High yield recovery.



Carrots (Cont.)

Carrots - Hybrid Cut-n-Peel Types

Variety	Relative Days	Root Size	Shape	Tops	U/M	Use	Features
Baltimore	Early	10x2"	Cylindrical	14"	M	Cut-n-Peel	The vitamin A rich, deep orange roots stay mild and sweet with a juicy crunch. Ideal for soups, stews, roasting and juicing.

Carrots - Hybrid Cello/Jumbo Types

Variety	Relative Days	Root Size	Shape	Tops	U/M	Use	Features
Envy	Early Season	8-10"	Cylindrical Tapered	Strong	M	Cello Jumbo	This hybrid is a true Jumbo type with uniform, smooth roots. Performs best at a plant population of approximately 475M / acre.
Enterprise	Main Season	10-12"	Cylindrical Blunt	Very Strong	M	Cello Slicer	Widely adaptable. Very smooth with deep orange color and great taste. Tolerance to Alternaria Leaf Blight.
Olympus	120	7-8"	Tapered	15-17"	M	Cello, Jumbo & Bunching	Uniform shape, great color and a smooth finish. Taste is outstanding with a crisp texture. Yield potential is high with this classy carrot.



Carrots - Hybrid Colored

Variety	Relative Days	Root Size	Shape	Tops	U/M	Use	Features
White Satin	65	8"	Cylindrical Blunt Tip	14"	M	Specialty	Great quality of shape, yield and flavor in one package! Very crisp, very sweet carrot for early harvest.
Yellowstone	70	9-10"	Cylindrical	14-16"	M	Specialty	Vigorous, widely adaptable variety that can grow up to 9-10" in length.
Rainbow	70	7-8"	Cylindrical	14"	M	Specialty	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	7-8"	Cylindrical Taper	14"	M	Specialty, Juice or Dye	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	12-14" x 1-1 3/4"	Tapered	17-20"	M	Specialty, Juice or Dye	Attractive purpling at top attachments. Vigorous tops with uniform roots and a dark purple exterior.



Cauliflower

Cauliflower - Hybrid

Variety	Relative Days	Head shape	Plant Type	Self Wrapping	U/M	Features
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.
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.
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.



CHEDDAR



CASPER



ARTICA



GRAFFITI



BISHOP



VERDI



ABSOLUTE



CHESTER

Cauliflower - Hybrid Romanesco

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

Cauliflower - Hybrid Fall/Overwinter Types

Variety	Relative Days	Options	Head Shape	Plant Type	U/M	Self Wrapping	Features
Belot	135-140	Organic	Dome	Large	M	Good	Mid-July planting for late December / early January harvest.
Pisasso	245	Non-Treated	Dome	Large	M	Good	Mid-July planting for an early April harvest.



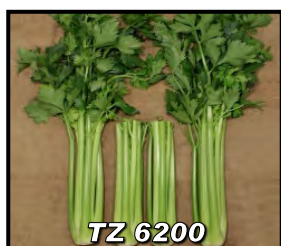
VERONICA



PICASSO

Celery

Celery						
Variety	Relative Days	Color	Plant Height	Stock Length	U/M	Features
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.
Balada	100	Green	Tall to very tall	Long	M	Tall processing and fresh market celery, with intermediate tolerance to Fusarium. Tall and heavy compact plants. Good field holding ability.




Collards

Collards						
Variety	Relative Days	Plant Type	Leaf Color	Leaf Type	U/M	Features
Vates	78	Upright	Green	Large Smooth	L	Upright, productive and long standing. Cold hardy and slow to bolt.






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	U/M Features
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 Triple Sweet™ 	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.

Sweet Corn (Cont.)

Bi-Color Super Enhanced Hybrids

Variety	Relative Days	Plant Height	Ear Height	Ear Size	Row Count	Disease	U/M	Features
Sweetness Synergistic 	68	6 ft	18"	8"	16		M	The excellent emergence and vigor that produces a sturdy plant. Good tender and flavor with excellent protection.
Profit Synergistic	70	7 ft	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.
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 Herterozygous	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.
Providence Triple Sweet™ 	82	6.5 ft	26"	8.5x1.85"	14-18	R(Rp 1-d)	M	Large, slightly tapered ears with superb eating quality. Suited for roadside stands and local markets.
BC 0805 Triple Sweet™ (Attribute)	82	6.5 ft	26"	8.5x1.95"	14-16	R(Rp 1-d)	M	Insect - Protected Variety! The first Attribute insect protected TripleSweet™ variety. Outstanding eating quality. Requires a signed stewardship agreement.



PROVIDENCE



SWEETNESS



PROFIT




ESPRESSO



LATTE

White Sugar Enhanced Hybrids

Variety	Relative Days	Plant Height	Ear Height	Ear Size	Row Count	Disease	U/M	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.
WH 0809 Triple Sweet™ (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.



WHITEOUT





WH 0809



SUGAR PEARL

Sweet Corn (Cont.)

Yellow Super Sweet Hybrids							
Variety	Relative Days	Plant Height	Ear Height	Ear Size	Row Count	Disease	U/M Features
Takeoff	69	6 ft	28"	7.5-8.5"	16-18	NCLB	M Excellent seedling vigor, superior eating quality for first early. Excellent ear size and high row count. Great husk protection and attractive husk package.
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.
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							
	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.



TAKEOFF



7300R



VISION MXR



GSS 0966



ACCESSION



ACX MS 4001



SWEET SURPRISE



CABO



KICKOFF



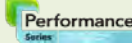



AP 358




HONEY N PEARL

Sweet Corn (Cont.)

Bi-Color Super Sweet Hybrids							
Variety	Relative Days	Plant Height	Ear Height	Ear Size	Row Count	Disease	U/M Features
Kickoff	69	6 ft	28"	7.75-8"	16-18	PS/RpG, NCLB	M Excellent seedling vigor, superior eating quality for first early. Excellent ear size and high row count. Greast husk protection and attractive husk package.
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.
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 Peral	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. Requires signed stewardship agreement.
Cabo	77	6 ft	24"	8"	16-18	IR: NCLB	M Attractive ears with exceptional eating quality. This variety has performed well in the Northwest. Hand pick.
American Dream	77	6 ft	26"	7-7.5x1.9"	16-18		M Excellent eating quality, including very tender pericarp and outstanding flavor for fuller season variety.
AP 358 	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 	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 	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.

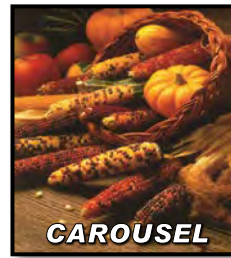


Sweet Corn (Cont.)

White Super Sweet Hybrids								
Variety	Relative Days	Plant Height	Ear Height	Ear Size	Row Count	Disease	U/M	Features
Snowbank	74	Medium	8"		16-18	MDMV(HR)	M	Vibrant white kernels and excellent germ and vigor. Dense with great seed quality
XTH 364 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.
Multiglowe 7401 	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.
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.

Popcorn

Hybrid Popcorn				
Variety	Relative Days	Color	U/M	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.



Ornamental

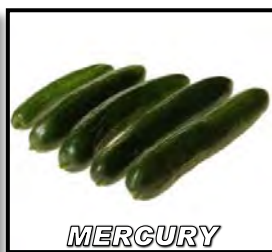
Ornamental Corn					
Variety	Days	Ear Size	U/M	Features	
Mini Blue	100	2-4"	L	Ears have medium dark blue kernels. The colonial blue color of the ears make this variety popular.	
Mini Colored	100	3-5"	L	Some of the ears have solid color, but most are multicolored and calicos.	
Mini Pink	100	3-5"	L	The 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.	
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.	



Cucumber - Slicing

Hybrid Cucumber - Slicing							
Variety	Relative Days	Flower Habit	Fruit Shape	Fruit Skin	Disease	U/M	Features
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	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, CM(r), VD(r), MPM(r)	M	Market leader for many years; extremely productive, excellent quality and consistency.
Talladega	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	60	GYN	9x2.25" Straight	Uniform Very Dk Green	Sc(t), ALS(t), PM(t), PRSV(t), WM(t), VZYM(t), VCMV(t)	M	Cobra has an excellent disease package. Attractive dark green color and excellent yield potential.
Cortez	60	GYN	9x2.25" Straight	Uniform Very Dk Green	Sc(r), AL(r), SP(r), MPRSV(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 Dk 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 - Slicing (Cont.)

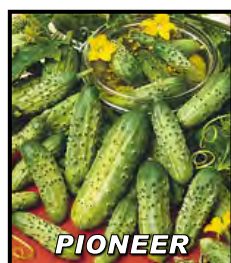


Hybrid Cucumber - Specialty

Variety	Relative Days	Flower Habit	Fruit Shape	Fruit Skin	Disease	U/ M	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 Burpleless	62	MON	9x1.5" Straight	Dark Green	PM(r) DM(t)	M	Monoecious burpleless cucumber with sweet taste and good productivity.

Hybrid Cucumber - Pickling

Variety	Relative Days	Flower Habit	Plant	L/D Ration	Color	Disease	U/ M	Features
Regal	 Very Early	GYN	Plant	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	40-45	MON	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.
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.
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.



Eggplant


Hybrid Eggplant

Variety	Relative Days	Fruit Shape	Fruit Size (LxW)	Fruit Color	Plant	Disease	U/ M	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.
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		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.



Flowers

Bachelor Button

Variety	Color	Flower Size	Plant Height	U/ M
Dwarf Blue Jubilee Gem		2-4"	1-2" 12-16 in	L
Polka Dot Mix	 Blue, Pink, Purple & White	1-2"	12-16 in	L



Zinnia

Variety	Color	Flower Size	Plant Height	U/ M
California Giants Mix	Red, Violet, Yellow, Orange & White	4-6"	2-3 ft	L
Pompn Mix	Pink, Yellow, White & Red	2"	2 ft	L
Thumbelina Mix	Pink, Violet, White & Yellow	1-1 1/4 "	2-3 ft	L



Flowers (Cont.)

Flowers - Other				
Variety	Color	Flower Size	Plant Height	U/ M
African Daisy Flake	Orange, Salmon & White	2"	8-16 in	L
Baby's Breath	White	Small	8-18 IN	L
Crackerjack Mix	Lemon Yellow, Deep Orange	2"	30-36 in	L
Fancy Mix	Yellow & Orange	2"	12-18 in	L
Four O'Clock	White, Yellow, Pink & Red	1-2"	12-36 in	L
Monstrosium Strawflower Mix	Hot Pink, Light Pink, White, Gold & Rose	2-2 1/2"	30-40 in	L
Scarlet Sage	Red	Small	2-4 ft	L



Flowers (Cont.)

Sunflowers

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



AUTUMN WINGS



CARLE'S KLEIDOSCOPE



CROWN OF THORNS



GALAXY OF STARS



KOSHARE YELLOW



LUNCH LADY



MIXED SMALL



SPECKLED SWAN



SPOON PLATOON



TURK'S TURBAN



ARUGULA - ROQUETTE



BASIL - CINNAMON



BASIL - ITALIAN LARGE LEAF



CHIVES - GARLIC



CORIANDER - SANTO



DILL - BOUQUET



FENNEL - ORION



LAVENDER

Gourds

Ornamental Gourds			
Variety	Relative Days	U/M	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 - Blend 	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.
Galaxy of Stars (Pepo) 	90-100	L	A five point star shaped gourd in many colors that can be mechanically washed.
Carle's Kleidoscope	90-100	M	Unique mixture of small warted and non-warted gourds, with various shapes, sizes and colors.
Koshare Yello (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.
Crown of Thorns (Pepo)	120	L	This white gourd is approximately 3" by 4" with approximately 10 points.
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.

Herbs

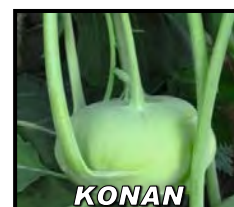
Herbs			
Variety	Appearance	U/M	Features
Arugula - Rouquette	Bright Green With Lobed Leave	L	Tangy salad green with a sharp, nutty flavor. This annual is fast growing and hearty
Basil - Italian Large Leaf	Broad Oval Leaves Medium Dark Green	L	Annual plant 3-4" in length with spicy flavor and aroma.
Basil - Cinnamon	Violet Stems Long Leaves	L	Annual, 18-24 inches in height, fragrant purple flowers, cinnamon taste, excellent for tea, fruit or fish.
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 - 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.

Herbs (Cont.)

Herbs				
Variety	Appearance	U/M	Features	
Dill - Bouquet	Dark Green Foliage	L	A 68 day vigorous plant.	
Dill - Long Standing Mammoth	Very Fine Leaves	L	A 70 day variety that grows 24-30" tall.	
Fennel - Orion F1 (Florence type)	Large Round Bulb	M	Very uniform 80-82 day plant that is bolt and tip burn tolerant	
Lavender	Lilac-Pruple 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.	

Kale

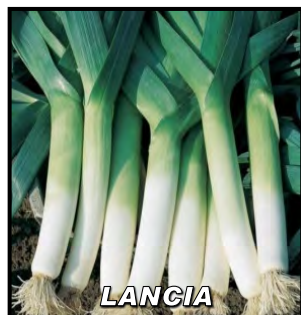
Hybrid Kale					
Variety	Relative Days	Leaf Appearance	Plant Size	U/M	Features
Winterbor	55	Blue-Green	18-24"	M	A vigorous, winter hearty variety with finely curled leaves. Tall stems allow for easier stripping.
Black Magic	65	Dark Green/Black	36"	M	Improved plant structure with a dark green to black 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.



Open Pollinated Kale					
Variety	Relative Days	Leaf Appearance	Plant Size	U/M	Features
Vates Blue Curled	55	Dark Green Finely Curled	14-15"	L	This upright, hearty plant resists yellowing and is slow to bolt

KOHLRABI

Hybrid Kohlrabi					
Variety	Relative Days	Shape	Color	U/M	Features
Konan	50	Round	Green	M	Very clean, excellent interior, erect foliage. All America's Selections 2016 National Award Winner!
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.



Leek

Leek						
Variety	Relative Days	Size	Color/Shape	U/M	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	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	M	YSV(t)	A highly productive variety for Fall and early Winter harvest. Tolerant to cold temperatures. Organically produced.

Lettuce

Iceberg Lettuce						
Variety	Relative Days	Head Size	Head Color	U/M	Disease	Features
Stage Coach	Very Early	Medium	Medium Green	M	HR: TBSV	Excellent head quality and tip burn tolerance. Dual purpose variety with high yields.



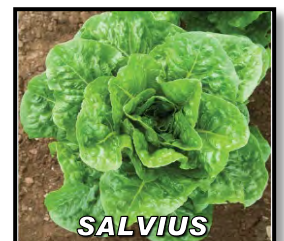
STAGE COACH



HOJA VERDE




NEW RED FIRE



SALVIUS

Lettuce (Cont.)


Green Leaf Lettuce						
Variety	Relative Days	Head Size	Head Color	U/M	Disease	Features
Hoja Verde	55	Large	Light - Medium Green	M	HR: TBSV	Widely adapted green leaf Batavia type with a strong tolerance to bolting and a consistent performance under different weather conditions. An excellent source of high quality medium dark green leaf lettuce for Spring or Fall cutting.

Red Leaf Lettuce						
Variety	Relative Days	Head Size	Head Color	U/M	Disease	Features
New Red Fire MI	 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	U/M	Disease	Features
Salvius	58	Large	Dark Green	M	DM, N(r), R(s)	Open habit makes it more suitable for heads. Good flavor with a crisp texture.

Melons

Hybrid Eastern Types

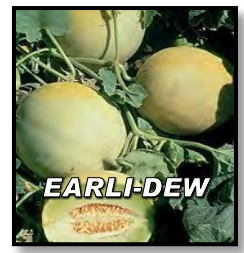
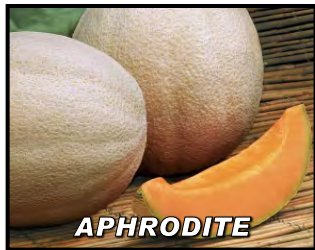
Variety	Relative Days	Weight Size	Net Sutures	Rind Color	Flesh Color	Disease	U/M	Features
Aphrodite	72	6-7 lbs Oval	Coarse Net Light Sutures	Tan	Orange	F01,2 PM1,2,3	M	Early maturing with size. Fruits have firm flesh with good flavor. Good shipper.
Home Run	74	6-8 lbs Oval	Coarse Net No Sutures	Tan	Orange	PMR FWR:0, 1&2	M	Comparable to Athena. Good yield potential and performs well in cool & rainy conditions.
Athena	 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.
Minerva	78	7-8 lbs Oval	Coarse Net Med. Sututres	Tan	Orange	F01.2 PM2	M	Slightly larger than Athena with a strong, vigorous vine & excellent disease tolerance.

Hybrid Western Shippers

Variety	Relative Days	Weight Size	Net Sutures	Rind Color	Flesh Color	Disease	U/M	Features
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.

Hybrid LSL/Harper

Variety	Relative Days	Weight Size	Net Sutures	Rind Color	Flesh Color	Disease	U/M	Features
Timeless Gold	Mid-Season	9 & 12	Full Net	Tan	Orange	HR: Fom: 0,2/ Sf: 2	M	High yielding variety with uniform shapes and sizes. Excellent flavor.



Melons (Cont.)

Hybrid Honeydew - Green Flesh

Variety	Relative Days	Weight Size	Net Sutures	Rind Color	Flesh Color	Disease	U/ M	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.

Please see table on following page for pricing and additional varieties which may available

Hybrid Honeydew - Orange Flesh

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



Melons (Cont.)

Hybrid Melons - Mixed Specialty

Variety	Relative Days	Weight Size	Net Sutures	Rind Color	Flesh Color	Disease	U/M	Features
Dione	Main	3-4 lbs 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.
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	Corrugated Skin	Green to Yellow	Salmon Pink		L	Vigorous productive plant, corrugated green to yellow skin, pear shaped with salmon pink flesh.
Fonzy	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.
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.
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.					
Sensation (Premium)	85	5.5-6 lbs Round	Sparse Netting	Green Yellow & Orange	White	PM, F(r)0-2	M	Unique melon with amazing taste, texture, sweetness and aroma. High yield potential.

Mustard

Mustard

Variety	Relative Days	Size	Leaf	U/M	Features
Florida Broadleaf	45	Large	Round Medium Green	L	Awidely 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.

Okra

Hybrid Okra

Variety	Relative Days	Plant	Pod	U/M	Features
Jambalaya	50-55	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.
Clemson Spineless	50-64	3.5-5 ft	Deep Green	L	Most popular okra, med-foliage, straight deep green spineless ribbed pods 6.5-9 x 1.5 inch, prolific, fine quality, for the Cotton Belt



Onions

Hybrid Intermediate Types

Variety	Relative Days	Shape	Size	Color	Storage	Disease	U/ M	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.
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.
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.
Scout	118	Globe	Colossal	Yellow	Mid 3-4	PR(Ht), B(t), B(Ht)	M	Scout is a great transition variety as you go from intermediate to long days. It has a nice copper brown scale and holds up well to mechanical harvest.



Onions (Cont.)

Hybrid Full Spanish Types

Variety	Relative Days	Shape	Size	Color	Storage	Disease	U/ M	Features
Minister	105	Globe	Jumbo Colossal	Golden Brown	Long	FBR(r), PRR(r)	M	Adaptable, for main to late planting window. Strong tops, excellent for mechanical harvest.
Milestone T-441	110	Globe	Jumbo Bronze	Dark Bronze	Long		M	Tamara type with earlier maturity and single centers. Excellent bolting tolerance.
Tucannon	114-116	Deep Globe	Jumbo Colossal	Dark Brown	Long	HR: Pt; IR: Foc;	M	Strong semi-glossy top boasting good bolt tolerance and a refined neck structure.
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.
Chancellor	150	Globe	Jumbo Colossal	Golden Brown	Long	FBR(r), PRR(r)	M	Adaptable, for main to late planting window. Strong tops, excellent for mechanical harvest.

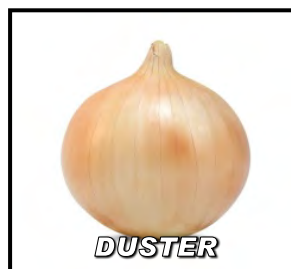
Hybrid Reds

Variety	Relative Days	Shape	Size	Color	Storage	Disease	U/ M	Features
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	Shape	Size	Color	Storage	Disease	U/ M	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 Colossal	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	Mid	PRR(t), FBR(t)	M	Bello Blanco has good firmness and skin retention. This variety is competitive, grower friendly with single centers.
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.

Onions (Cont.)



Onions (Cont.)

Hybrid Short Day

Variety	Relative Days	Shape	Size	Color	Storage	Disease	U/ M	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.
Merlin	155	Globe	Jumbo	Straw	Short Mid	PRR(t), FBR(t)	M	Great early to main season short day yellow variety the produces a firm uniform bulb.
Somerset	160	Globe	Colossal	Straw Golden	Short Mid	PRR(t), FBR(t)	M	Main to late season variety that has a nice deep copper skin and a globe shaped bulb.
Nomad	Mid	Globe	Jumbo	Straw	Short Mid	PRR(t), FBR(t)	M	Excellent foliar blight resistance and waxy blue foliage. Low pungency and high % of single centers.
Hornet	Early	Globe Grano	Large	Light Yellow	Short Mid	PRR(t), FBR(t)	M	Vigorous tops with medium green foliage. Crown jewel on low pungency with a great sweet flavor.
SV4043NM	Early	Globe	Jumbo	White	Short Mid	PRR(t), FBR(t)	M	Vigor and produces high yields. Central Mexico, performs in transplant, set systems and direct seeding.
SV7030NS	Early	Flat Globe	Jumbo Colossal	Red	Short Mid	PRR(t), FBR(t)	M	Attractive red hybrid with excellent red color when cured. It has a late short day maturity with good vigor.
Dsuter	Early	Globe	Jumbo	Light Golden	Short Mid	PRR(t), FBR(t)	M	Early with excellent foliar blight resistance and erect dark green foliage. Low pungency, high % of single centers.

Onions (Cont.)

Overwinter Types

Variety	Relative Days	Shape	Size	Color	Storage	Disease	U/M	Features
Walla Walla Sweet	July August	Globe	Jumbo	Medium Dark	Short	Botrytis(t)	M	This juicy sweet onion is a favorite choice. Widely adapted and grown throughout the Northwest.

Onions - Bunching

Variety	Relative Days	Flag Color	Shank Size	U/M	Features
Performer	58	Dark Green	Long	M	A vigorous compact plant with erect tops. Very tolerant to bolting.
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.



Parsley

Parsley

Variety	Relative Days	Flag Color	Shank Size	U/M	Features
Dark Green Italian	65-70	Plain, Flat Moderate 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.

Peas

Peas - Garden (Shelling)

Variety	Relative Days	Vine (Approx)	Peas Per Pod	Pod Size Color	Disease	U/M	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.
Sabre	62	24"	10-12	3.5" Green	F(t), PM(r)	L	Scrumptious, sweet and nutty-tasting garden peas. Expect big yields that shell out easily.
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 (Cont.)

Peas - Snap (Edible Pod)

Variety	Relative Days	Vine (Approx)	Peas Per Pod	Pod Size Color	Disease	U/M	Features
Sugar Sprint	61	26"	7-8	NA	PM(t)	L	Sugar Sprint is a stringless variety and averages two pods per node. Pods are medium green, about 3" long.
Super Sugar Snap	66	60"	10-12	NA	PLRV, PM	L	Earlier than Sugar Snap with added disease tolerance and larger pod size. Vines average 60".
Sugar Daddy	72	28"	9-10	NA	PLRV(t), PM(r)	L	Bears one to two stringless pods per node and offers resistance to Powdery Mildew.



Peas - Snap (Edible Pod)



Variety	Relative Days	Vine (Approx)	Peas Per Pod	Pod Size Color	Disease	U/M	Features
Sweet Horizon	62	36"	NA	3-4" Light Green	F1, PM	L	High yielding indeterminate plant that produces two edible flat pods per node. Pods are stringless.
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	U/M	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.

Peppers - Sweet

Peas - Snap (Edible Pod)

Variety	Relative Days	Fruit LxW	Plant Habit	Fruit Conformation	Disease	U/ M	Features
Huntington	 60-65 Early	4.5x3"	Vigorous 20-24"	Blocky Lt Green to Red	Tm Po(HR)	M	A blocky sweet pepper hybrid that has smooth, medium-large fruit.
Gridiron	Early	Large	Upright Good Cover	Large Blocky Green to Red	R:Tmv:0, Xcv:0-5,7-9 IR:TEV	M	Early maturity w/ high yield potential. High quality fruit with thick walls.
Baron	70-72 Mid	4x3.5"	Height 2-22"	Deep Blocky Green to Red	Tobamo Po(r)	M	Dual use -excellent green and red for fresh market and processing.
Trifecta	Mid	Extra Large	Strong	Large Blocky Green to Red	HR:TMV, TSWV:0	M	Thick walls and good yield potential. fresh market or processing.
Colossal	 72-74 Mid	5x5"	Strong Vigorous	Large Blocky Green to Red		M	Mostly blocky, extra large fruit all season. A good NW performer.
Encore	72-74 Mid	4.5x4.5"	Medium Good Cover	Blocky Green to Red	PVY(r), ReMV(r), Stip(t)	M	A top performer, Encore's fruit is smooth, with thick walls.
Double Up	Mid Early	Large to XL	Medium Good Cover	Blocky Green to Red	HR:TMV:0 Xcv: 0-3,5,7,8	M	Known for dependable performance. Offers high yields of quality fruit.
Majestic Red	75	X-Large	Strong Vining	Large Blocky Green to Red		M	High quality sweet bell pepper with Thick wall and cruchy texture.
Red Bull	76-78	Large	Excellect Cover	Large Blocky Green to Red	BLS(r)1-3	M	Excellent cover. Strong heavy 4 lobed sets. Smooth & very thick walled.
Revolution	72-74 Mid	5x5"	Good Canopy	Blocky Green to Red	SLS(r)1,2,3,5, PHY(r), TMV	M	High concentrated early set for good yield potential. Firm fruit. Strong plant.



HUNTINGTON



GRIDIRON



BARON



COLOSSAL



DOUBLE UP



ENCORE



RED BULL



CHOCOLATE BEAUTY



REVOLUTION



EARLY SUNSATATION



TABBY




PAGEANT



CUBANELLE

Bell Peppers - Mixed Colors

Variety	Relative Days	Fruit LxW	Plant Habit	Fruit Conformation	Disease	U/ M	Features
Chocolate Beauty	68-72 Mid-Early	4x3.5"	20-24"	Deep Blocky Green to Chocolate	Tobamo Po(r)	M	Mature fruits turn an attractive chocolate color. Very sweet.
Early Sunsatation F1	68-72 Mid-Early	4x4"	18-22"	Blocky Dk Green to Yello	BLS(r) 1,2,3	M	Produces large, attractive fruit that turns from dark green to yellow.
Sandpiper F1	 Mid	Blocky	Medium Good Cover	Blocky Bond to Red	R: BBS 1-3	M	Creamy blond to red. Smooth thick walled mainly 4-lobed. Vigorous plant.
#8620	73 Mid	Blocky	Medium Large	Blocky Green to Yellow	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	4.5x3.75"	Compact 16-17"	Blocky Green to Yellow	BLS(t)1,2,3, PVY(t), TMV(t)	M	Good skin attachment, thick walls, 4 lobes. Flesh is moist and sweet.

Peppers - Sweet (Cont.)


Sweet Banana Peppers

Variety	Relative Days	Fruit LxW	Fruit Color	Fruit Conformation	Disease	U/ M	Features
Sweet Banana	65-70	6x1.5"	Yellow to Orange Red	Tapering to A Point		M	Productive. Mainly used for fresh market and roadside stands.
Pageant F1	68-72	8x1.75"	Yellow to Red	Long, Tapering to A Point	BLS(r)1,2,3	M	Attractive, smooth, yellow fruit with thick walls. Fresh market or processing.

Sweet Cubanelle Peppers

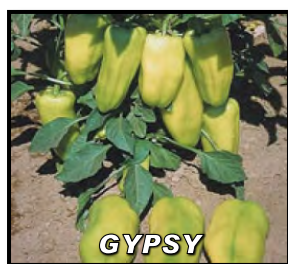
Variety	Relative Days	Fruit LxW	Fruit Color	Fruit Conformation	Disease	U/ M	Features
Cubanelle	64-66	5.5x2.5"	Yellow-Green to Red	Slight Taper, Rounded End		M	Attractive, frying type. Fresh market and home garden.

Sweet Specialty Peppers

Variety	Relative Days	Fruit LxW	Fruit Color	Fruit Conformation	Disease	U/ M	Features
Yum Yum Mix F1 	55	3-4x1"	Light Yellow to Red	Tapered		M	A beautiful combination of sweet baby red & yellow peppers. Gorgeous & great flavor.
Gypsy F1	60-65	4x2.4"	Light Yellow to Red	Mostly 3 Lobe, Slight Taper to Blunt End	TMV(r)	M	AAS Winner! Early, tasty and very productive. Widely adapted.
Cherry Pick F1 (Cherry)	65-70	1.25x1.25"	Green to Red	Globe	Tobamo Po	M	Cherry Pick boasts an outstanding yield of highly uniform fruit. Tall, strong plant.
Sweet Delilah	Mid-Early	9x2.5"	Green To Deep Red	Shaped Cylindrical	TSWV	M	Marconi type with vigorous plant and high yield. Fruit are three lobed and uniform.
Red Tom Tom	Mid		Red	Round Flattened Shape		M	Toe Pepper shape with excellent fruit color and very productive.
Yellow Tom Tom	Mid		Yellow	Round Flattened Shape		M	Yellow toe pepper with excellent production and fruit color.
Fushimi Long Green	70-75	5-6" Long	Green	Long Slender		M	A long sweet Japanese variety. Fruit is slender, bright green and very sweet.
Primento	75-80	4.5x3"	Dark Green to Red	Large Heart Shaped		M	Used for home garden, popular stuffing pepper. Also for processing.



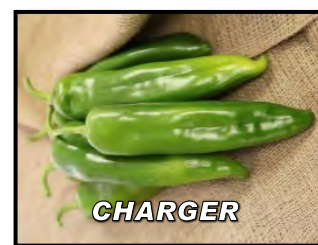
YUM YUM MIX



GYPSY



SWEET DELILAH



CHARGER



ANAHEIM 118



CHILE G76



MASIVO



SEQUOIA

Peppers - Hot

Hot Peppers - Anaheim Types

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

Hot Peppers - Hybrid Ancho Types

Variety	Relative Days	Fruit LxW	Fruit Color	Fruit Conformation	Disease	Scoville Rating	U/M	Features
Sequoia	Early	Large	Green to Red	2-3 Lobed	TMV(r)	Mild to Hot	M	Ancho w/ large uniform shape. Medium tall plant habit. Wide adaptability to elevation.
Masivo	70-75	7-7.5" x3.5"	Dark Green	Flattened, Elongated, 2-Lobed	TMV(r)	1,5000 to 4,000	M	High percentage dark green peppers with two smooth veins and a uniform shape.
Tiburón	73-83	5x2.5"	Dark Green to Red	Tapering To A Blunt End	BLS1,2,3	1,000 to 3,000	M	Produces high yield of attractive, large fruit. Mildly pungent.

Hot Peppers - Banana Types

Variety	Relative Days	Fruit LxW	Fruit Color	Fruit Conformation	Disease	Scoville Rating	U/M	Features
Inferno F1	60-65	8x1.5"	Yellow to Red	Smooth Taperd		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"	Yellow to Red	Smooth, Conical, Tapers To A Point		2,000 to 4,000	M	Productive, fresh market and processing. Widely adapted.



Peppers - Hot (Cont.)

Hot Peppers - Caribe Types

Variety	Relative Days	Fruit LxW	Fruit Color	Fruit Conformation	Disease	Scoville Rating	U/M	Features
Rio de Oro F1	70-75	3.5x2"	Yellow to Orange Red	Large, Conical, Tapered	TMV, Tobamo Po	3,000 to 5,000	M	A Santa Fe Grande type with thick walls, strong plant and heavy fruit set. Quality!
Santa Fe Grande	75-80	3.5x1.5"	Yellow to Orange Red	Large, Conical, Tapered	Tobamo Po	5,000 to 8,000	M	Very prolific. Continuous setting for extended harvest. Widely adapted.

Hot Peppers - Cayene Types

Variety	Relative Days	Fruit LxW	Fruit Color	Fruit Conformation	Disease	Scoville Rating	U/M	Features
Cayenne Large Thick	70-75	7x.75"	Green to Red	Two Celled, Wrinkled, Long		30,000 to 40,000	M	Very productive plant with pungent fruit. Works well for drying.
Cayenne Long Slim	70-75	5x.5"	Green to Red	Two Celled, Wrinkled, Long		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	Fruit LxW	Fruit Color	Fruit Conformation	Disease	Scoville Rating	U/M	Features
Cherry Bomb	65-70	2.5x1.5	Green to Red	Oblate or globular	Tobamo Po(r)	2,500 to 5,000	M	A high yielding hybrid cherry pepper.

Hot Peppers - Habanero Types

Variety	Relative Days	Fruit LxW	Fruit Color	Fruit Conformation	Disease	Scoville Rating	U/M	Features
Habanero Rojo	90-100	2x1"	Green to Orange	Wrinkled, Tapers To A Point		200,000 plus	M	Extremely hot pepper for fresh market or processing.
Habanero Orange	90-100	1"	Orange	Lantern		200,000 - 300,000	M	One of the hottest habanero variety. If you want to spike up food this is the one.
Chitam	95	1.5x2"	Green to Chocolate	Large Typical	CMV	200,000	M	Continuous set throughout harvest. Very uniform with an eye catching color.
Scotch Bonnet Orange	100	2.5x 1.25"	Green to Orange	Typical		200,000	M	This OP matures green to orange. Similar to Jamaican Hot Red. Very HOT!!



CHITAM



MAMMOTH



TAJIN



TALON



SCOTCH BONNET ORANGE

Peppers - Hot (Cont.)

Hot Peppers - Hybrid Jalapeno

Variety	Relative Days	Fruit LxW	Fruit Color	Fruit Conformation	Disease	Scoville Rating	U/M	Features
PS11435810	62-66	4x2"	Dark Green	Smooth Bullet	(Hr): Mi/Ma/Mj, PVY0, Tev(IR) Pc	2,000 to 2,500	M	Size, quality, yield & early. Concentrated set with smooth exterior and good color.
Mammoth	65-70	5x2"	Dark Green	Cylindrical	TMV(r), PVY(r)	2,500 to 5,000	M	Huge Jalapeno! Uniform & dark green. High yielder & good disease package.
Tajin	70-75	3.8x1.6"	Green to Red	Bullet Shaped		6,000 to 8,000	M	Concentrated set with large, uniform fruit that have thick walls.
Talon	75-80	4x1.5"	Green to Red	Tapers	BLS(t)1-3, PeMV, PVY,Po(r), TEV	3,500 to 6,000	M	Great disease package with no purpling or checking. Dk green, excellent quality.
Chichimeca	75-80	4x1.6"	Green to Red	Tapers	Tobamo Po(r)	5,000 to 6,000	M	Large, uniform fruit with thick walls. Strong plant, excellent yield potential.
USAP0843 (No Heat)	75-80	3.5x1.3"	Green to Red	Bullet Shaped	PVY, Tobamo Po(r)	No Heat	M	A no heat Jalapeno. Ideal for fresh or processing. Flavor without the heat.



Hot Peppers - Pasilla (Chilaca) Types

Variety	Relative Days	Fruit LxW	Fruit Color	Fruit Conformation	Disease	Scoville Rating	U/M	Features
Pasilla Bajio	75-80	8x1"	Dark Green To Brown Red	Two Celled Long Wrinkled	Tobamo Po	500 to 1,500	M	Grown in Mexico for fresh market and dehydration. Used in mole sauces.

Hot Peppers - Hybrid Serrano

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

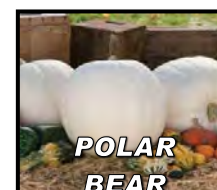
Peppers - Hot (Cont.)

Hot Peppers - Specialty								
Variety	Relative Days	Fruit LxW	Fruit Color	Fruit Conformation	Disease	Scoville Rating	U/M	Features
Hot Portugal	60-65	7x1"	Green to Scarlet	Tapers To A Point		30,000 to 50,000	M	Sturdy, upright plant. Large, smooth, glossy bright scarlet fruit. Prolific yielder.
Fresno Chili	75-80	3x1.25"	Green to Red	Tapering	TMV	10,000 to 15,000	M	Vigorous 24" to 36" plant with dark green foliage. Market at green stage.
Super Chili F1	75-80	2.4x.4"	Light Green to Red	Tapering		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	Green to Red	Tapers, Upright		40,000 Plus	M	Upright clusters 2-3" hot peppers. Beautiful foliage, bears abundantly.



Pumpkins

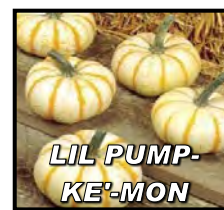
Pumpkins - White								
Variety	Relative Days	Fruit Size WxH	Fruit Weight	Skin Color Texture	Plant Type	U/M	Features	
Casperita	77	6x2.5"	.5-1 lb	White, Ribbed	Semi Vine	M	Great personal sized, hybrid pumpkin that is a very good producer. Bright white color is maintained longer.	
Baby Boo	90	3x2"	.25 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	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)	
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 Boar 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 (Cont.)

Pumpkins - Specialty							
Variety	Relative Days	Fruit Size WxH	Fruit Weight	Skin Color Texture	Plant Type	U/M	Features
Blaze	95	7x3.5"	3 lbs	Deep Orange, Yellow Stripes	Reduced Vine	M	Fleshy yellow, orange-striped fruits are flattened-round with shallow ribs. Sturdy, short vine plants have excellent powdery mildew resistance.
Specter F1	95	9-12" x 9-12"	20 lbs	White Lightly Warted	Vine	M	Early maturing with semi-hard, lightly warted shell that holds its color well. Uniform, medium round fruit with large, firmly attached handles.
Warty Gnome F1	95	4x7"	4-6 lbs	Orange, Yellow Stripes	Vine	M	This warted novelty pumpkin with orange and yellow tripe and long, dark green handle is sure to stand out in fall displays.
Galeux d'Eysines	95-100	13x6"	9-12 lbs	Pink With Beige Bumps	Vine	L	Raised bumps over skin surface resemble peanuts. French heirloom shaped like a wheel of cheese.
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	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	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	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.
Winter Luxury NT	105	10"	8 lbs	Golden Russet	Vine	L	This marvelous, small pumpkin has a unique, netted skin. Gorgeous ornamental and superb for eating.
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.
Rouge Vif D'Etampes	105	12x11"	25-30 lbs	Multi Color	Vine	M	A unique pumpkin from France. A flattened, deeply ridged fruit. Surprising beauty, great yield and flavor. Cinderella type used for stacking displays.
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 decor. Over 100 seeds requires sign off.
Small World of Color F1	110	Medium Large	25-30 lbs	Multi Color	Vine	M	Blend of decorative pumpkins that are sure to catch your eye. Blend includes white, pink and a pink-blue pumpkin.
Mini Warts	110	Small	3 1/2 lbs	Orange w/ Green Warts	Vine	M	Smaller version of Warty Goblin with the same orange shell and striking green warts. The strong handle and small fruits make Miniwarts a perfect choice for pumpkin patches and roadside stands.
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.



Pumpkins (Cont.)



Pumpkins -Miniature

Variety	Relative Days	Fruit Size WxH	Fruit Weight	Skin Color Texture	Plant Type	U/ M	Features
Lil' Orange Mon F1 	Early	4x12"	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 lb	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.
WeweeOne F1	95	3x3"	.5 lb	Orange, Unique Ribbing	Semi-Bush	M	Can be used as a carving pumpkin or decorating. Ribbing is unique. Excellent PMR and high yield.

Pumpkins (Cont.)

Pumpkins -Small/Pie							
Variety	Relative Days	Fruit Size WxH	Fruit Weight	Skin Color Texture	Plant Type	U/M	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.
Canon Ball F1	 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	Deep Orange, Vine	Compact	M	Slightly flattened shape. Very high brix, excellent eating pumpkin. Powdery Mildew tolerant pie pumpkin.
Field Trip F1	 95	5x7"	5-7 lbs 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).

Pumpkins -Mid Size							
Variety	Relative Days	Fruit Size WxH	Fruit Weight	Skin Color Texture	Plant Type	U/M	Features
Orange Surprise	Early	10x12"	12-18 lbs	Deep Orange, Med Ribbing		M	Early Maturing, Precocious variety. Has round shape and deep orange color. PM(IR).
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 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.



Pumpkins (Cont.)




Pumpkins - Large

Variety		Relative Days	Fruit Size WxH	Fruit Weight	Skin Color Texture	Plant Type	U/ M	Features
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).
Tallon	NEW	95	11x13"	25-35 lbs	Deep Orange	Vine	M	A tall, strong pumpkin with a gorgeous handle.
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		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.
Hulk F1		100	15x13"	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	13x13"	15-25 lbs	Deep Orange, Hvy Ribbed	Vine	M	Slightly flattened round pumpkin with large well attached handle. Uniform shape and size. PM(r)
Gold Medal F1		105	13"12"	22 lbs	Dark Orange, Med Ribbed	Large Vine	L	Large pumpkin with dark color and great, long handle. Good yield potential.
Rhea		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)
Secretariat	NEW	105	Silightly Flat	15-17 lbs	Dark Orange, Ribs	Medium Vine	M	Secretariat is very productive producing multiple fruit per plant. Works well for both the binned market as well as farm stand.
Zeus F1		110	12x11"	16-20 lbs	Medium Dark Orange	Vine	M	Greetat shipper!! Strong vine produces attractive fruit w/ large firmly attached handle. PM(IR) ZYMV(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)
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.
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.

Pumpkins (Cont.)



Pumpkins - Extra Large

Variety		Relative Days	Fruit Size WxH	Fruit Weight	Skin Color Texture	Plant Type	U/M	Features
Large Marge	NEW	105	13x13"	30-40 lbs	Dark Orange, Ribbed & Wrinkled	Full Vine	M	Extremely large pumpkin with a dark and large embedded handle to match the fruit size. Can set multiple fruits per plant and maintain size.
Captain Jack F1		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.
Conestoga Special		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.
Monster Smash		120	Extra Large	50-150 lbs	Bright Orange,m Medium Ribbing	Full Vine	M	Extra Large pumpkin with slightly flattened round fruit with moderately defined ribbing. Without question this invention is sure to be a "smashing" success.
Prize Winner F1		120	Extra Large	100+ lbs	Orange	Large Vine	M	Avery large pumpkin with excellent shape and color.

Radish

Radish - Hybrid

Variety	Relative Days	Root Shape	Root Color	Tops	Disease	U/M	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.

Radish (Cont.)

Radish - Open Pollinated

Variety	Relative Days	Root Shape	Root Color	Tops	U/M	Features
Cherry Belle	22	Round Very Smooth	Bright Red	Medium	L	Early variety for bunching and packing, tops remain short for bunching.
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.

Radish - Daikon

Variety	Relative Days	Root Shape	Root Color	Tops	U/M	Features
April Cross	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	U/M	Features
Amerian Purple Top	90	Glove 5-6"	L	A deep purple crown with a yellow base root for fresh market. Prolific greens



Spinach

Spinach Hybrid - Smooth Leaf

Variety	Relative Days	Leaf Type	Leaf Color	Plant Habit	Disease	U/ M	Features
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.
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.

Squash Summer

Squash - Hybrid Green Zucchini

Variety	Relative Days	Color	Fruit Size Shape	Plant Type	Disease	U/ M	Features
Noche	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	Med 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	U/ M	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	Lilght to Med Grey	5-7" Tapered	Vigourous	HR:PRSV, SLCV, WMV, ZYMV	M	Early with a vigorous plant. Speckled fruit are long and tapered with small blossom end scar.



Squash Summer (Cont.)

Squash - Hybrid Yellow Zucchini

Variety	Relative Days	Color	Fruit Size Shape	Plant Type	Disease	U/ M	Features
Golden Dawn III	46	Deep Golden Yellow	7-8" Cylindrical	Open, Vigourous Upright		M	This variety offers smooth and straight golden fruit. Open plant habit.
Golden Delight	47	Deep Golden Yellow	7-8" Cylindrical	Open, Vigourous 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	Apereocious yellow, uniform & straight fruit, golden at maturity; no fruit greening with extended harvest.
Gold Rush	49	Gold Green Stem	7-8" Cylindrical	Upright Open		M	AAS winner! Gold Rush produces straight, uniform fruit with very smooth, waxy skin.

Squash - Specialty Zucchini

Variety	Relative Days	Color	Fruit Size Shape	Plant Type	Disease	U/ M	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.
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	U/ M	Features
Gold Star	42	Med Yellow	6-6.5" Semi	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 Shape	Plant Type	Disease	U/ M	Features
Grandprize	42	Deep Yellow	6-7"	Erect, Semi-Open	IR: ZYMV, WMV, Px	M	Producing high quality fruit with a glossy, deep yellow appearance and green peduncle.
Cougar	45	Yellow	5-6"	Urpight	WMV(t)1,2, ZYMV(t), CMV(t)	M	Excellent disease package with quality fruit over an extended harvest period.



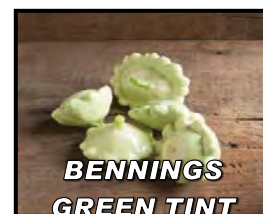
GOLDPRIZE



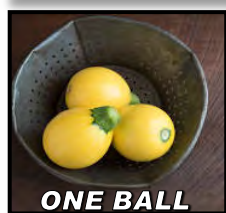
COUGAR



SUNBURST



**BENNINGS
GREEN TINT**



ONE BALL



CUE BALL



EIGHT BALL



**AUTUMN
DELIGHT**



TABLE ACE

Squash Summer (Cont.)

Squash - Summer Specialty

Variety	Relative Days	Color	Fruit Size Shape	Plant Type	Disease	U/M	Features
Sunburst	50	Bright 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.
Cue Ball F1	40	Light Green	Round	Bush		M	Cue Ball is another unique round zucchini from Hollar, with excellent yield.
One Ball F1	4042	Golden Yellow	Round	Upright Open	ZYMV(t), WMV(t)	M	Unique round zucchini with a golden color. Excellent companion to Eight Ball.
Eight Ball F1 (Premium)	49	Dark Green	Round	Vigorous Bush		M	AAS Winner! A unique round zucchini with great taste. Prolific yielder.

Squash Winter

Squash - Hybrid Acorn Types

Variety	Relative Days	Fruit Color	Fruit Size Shape	Plant Type	U/M	Features
Autumn Delight	70	Drk Grn 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	70	Drk Grn Black	5x6" Full Acorn	Semi-Bush	M	A standard when it comes to acorn varieties. Very flavorful, with good yields and storage.

Squash - Specialty Acorn Types

Variety	Relative Days	Fruit Color	Fruit Size Shape	Plant Type	U/M	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	White w/ 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	Yellow Orange Sulures	4x5" Acorn	Compact Bush	M	A Powdery Mildew(t) hybrid acorn with gold striping and exceptional eating quality. Excellent for mixed bin displays.



Squash Winter (Cont.)

Squash - Butternut Types

Variety	Relative Days	Fruit Color	Fruit Size Shape	Plant Type	U/M	Features
Butternut 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	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	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.

Squash - Spaghetti Types

Variety	Relative Days	Fruit Color	Fruit Size Shape	Plant Type	U/M	Features
Pinnacle F1	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.
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	Fruit Color	Fruit Size Shape	Plant Type	U/M	Features
Bush Delicata	100	White w/ Green Stripes	6-7" Elongated	Bush	L	AAS Winner! Fine textured flesh with sweet flavor. Good storage and high yield potential.

Squash - Buttercup Types

Variety	Relative Days	Fruit Color	Fruit Size Shape	Plant Type	U/M	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	Fruit Color	Fruit Size Shape	Plant Type	U/M	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.
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 Winter (Cont.)

Squash - Hubbard Types

Variety	Relative Days	Fruit Color	Fruit Size Shape	Plant Type	U/M	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 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.

Squash - Specialty Types


Variety	Relative Days	Fruit Color	Fruit Size Shape	Plant Type	U/M	Features
Galeux d'Eysines	95-100	Pink w/ 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 Grn 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 w/ Grn 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" Tuban	Vine	L	An ornamental and edible squash. Attractive for displays. Keeps well.
Pink Banana Jumbo	105	Pinkish Orange	8" 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	Cream w/ Grn Stripes	8-12 lbs Long	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	Cream w/ Orange Stripes	8-12 lbs Long	Large Vine	L	Attractive creamy white with orange stripes. Use for pies and canning. Also good for ornamental use.
La Estrella	130	Tan w/ Grn Stripes	10-12 lbs Round	Vine	M	Compact vines with very good production. Fruit are uniform in size with attractive flesh colors. Delicious!

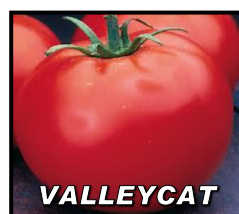


Swiss Chard

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



Tomatoes

Hybrid Tomato - Fresh Market								
Variety	Relative Days	Fruit Weight	Fruit Shape	Shoulder	Plant Habit	Disease	U/M	Features
HM 1823	Early	Large to X-Large	Round	Uniform Grn Shoulder	Determinate	V(HR), F(Hr), SI(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	 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),St3(r)	M	Widely adapted. Productive plants yield high quality, large smooth fruit.
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	Vr)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), F(r)1,2 TMV(r), St(t)	M	Excellent quality with uniform fruit size and shape. Excellent firmness.




Tomatoes (Cont.)

Hybrid Tomato - Cherry

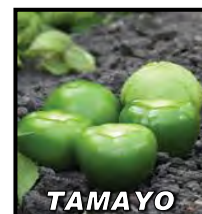
Variety	Relative Days	Fruit Weight	Fruit Shape	Fruit Color	Plant Habit	Disease	U/ M	Features
Tumbler	50	1 oz	Cherry	Red	Determinate		M	Early & productive. Fruit is large and very sweet. Hanging basket.
Sun Gold	 57	8-10 gr	Globe	Tangerine Orange	Indeterminate	F(t) TMV(t)	M	Vigorous plant yields all season. 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	 Early	20-30 gr	Large Round	Deep Rich Pink	Indeterminate		M	Fruit has a beautiful deep pink tone. Rich flavor and great texture.
Sunorange	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	Fruit Weight	Fruit Shape	Fruit Color	Plant Habit	Disease	U/ M	Features
Sweet Hearts	 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.

Hybrid Tomato - Saladette (Roma)

Variety	Relative Days	Fruit Weight	Fruit Shape	Plant Habit	Disease	U/ M	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.
Sheena	75	150-170 gr	Oval	Determinate	HR:Vd, Fol:1-3, ToMV, PST;IR:Mj, TSWV, SI	M	Excellent quality and great yields, tends to be vigorous with good foliage covering. Good firmness and long shelf life.
Meteoro	70-75	120-130 gr	Square Blocky	Determinate	R(r)1-3, V(r), N(r)	M	Consistent bright red color and very firm. High yield with good cover.



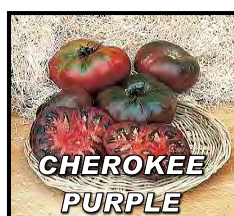
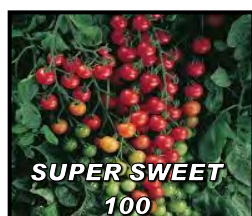
Tomatoes (Cont.)

Tomatillo (Husk Tomato)

Variety	Relative Days	Fruit Weight	Fruit Shape	Plant Habit	Disease	U/ M	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	Fruit Weight	Fruit Shape	Plant Habit	Disease	U/ M	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)1, N, St	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.



Tomatoes (Cont.)

Tomato - Heirloom						
Variety	Relative Days	Fruit Weight	Fruit Shape	Plant Habit	U/M	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.
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.
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.
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.
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.

Turnip

Turnip						
Variety	Relative Days	Leaf	Root	Skin Color	U/M	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.

Watermelon

Hybrid Triploid Watermelon

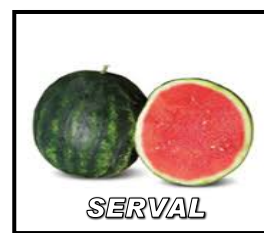
Variety	Relative Days	Fruit Size	Fruit Shape	Disease	Flesh Color	Rind Pattern	U/ M	Features
Bottle Rocket		18-21 lbs	Oblong	IR Fon:1	Deep Red	Dark Mottle Stipe	M	Combines the sweet taste of yesteryear, high performance and dependability you need to help you build your business.
Sweet Gem	 79	13-16 lbs	Globe		Dark Red	Glossy Dark Green	M	Good fruit set with excellent yield potential. Nice firm flesh, small pits and excellent flavor.
Fascination	83	16-20 lbs	Blocky		Dark Red	Rich Green with Med Crimson Stripes	M	Large seedless hybrid with a classy rind appearance. Firm flesh and very small pips.
Ruby	85	14-17 lbs	Round Oval	F(t) A(t)	Bright Red	Med Green with Dk Green Stripes	M	Very distinctive dark green stripe pattern. Flesh is very crisp. Brix were 12.2 on trials
Bridbane	90	15-17 lbs	Round		Bright Red	Dark on Dark	M	Uniquely crisp and sweet flesh with high yield and early maturity make this variety great.
Yellow Buttercup	 90	14-16 lbs	Round Oval		Bright Yellow	Med Green with Dk Green Stripes	M	Crisp texture with great eating quality makes this a must for your growing schedule.
Exclamation	90	17-21 lbs	Blocky	R: Co: 1 Fon:1	Bright Red	Deep Green with Crimson Stripes	M	Exclamation produces blocky, firm-fleshed fruit of uniform size with an attractive rind.

Hybrid Triploid Watermelon - Mini Fruited

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

Watermelon Hybrid - Pollenizer

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



Watermelon (Cont.)

Hybrid Diploid Watermelon - Large Fruited

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

Hybrid Diploid Watermelon - Ice Box Types

Variety	Relative Days	Fruit Size	Fruit Shape	Disease	Flesh Color	Rind Pattern	U/ M	Features
Baby Doll	70	8-10 lbs	Round Oval		Yellow	Med Green with Dk Green Stripes	M	Yellow flesh ice box type with yellow, crisp flesh. Uniform size with good yield potential.
Pata Negra aka Jade Star	75	12-15 lbs	Round		Bright Red	Uniform Dark Green	M	Widely adaptable, good quality, large Sugar Baby type.

Watermelon - Open Pollinated

Variety	Relative Days	Fruit Size	Fruit Shape	Disease	Flesh Color	Rind Pattern	U/ M	Features
Crimson Sweet	85	25	Round		Medim Red	Medium Green Thin Stripes	L	Standard shipping melon. Widely adapted. Hollar's selection of Crimson Sweet.





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.TM seeders so you can be sure parts and accessories provide exact replacements for your older Planet Jr.TM.

For all equipment inquiries:
Contact Your Salesman

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

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

Vegetable Seed Planting Chart

	avg. seed count/pkt.	avg. seed count/oz.	avg. seed count/lb.	required per acre		post thinning distance		soil temp.	appr. days to germ.
				direct seeded	# transplants	in row	between rows		
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 pld	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
Squash, 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	Anthrachnose	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
CaIMV	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 Yellowing	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 Nematodes	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.

UNITS OF AREA

ACRES	METRIC
1 square mile/640 acres	259 hectares / 2.58 sq kilometers (km)
.3861 square miles/247 acres	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.


LOGAN ZENNER

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