

Fedco Seed Catalogs

2017

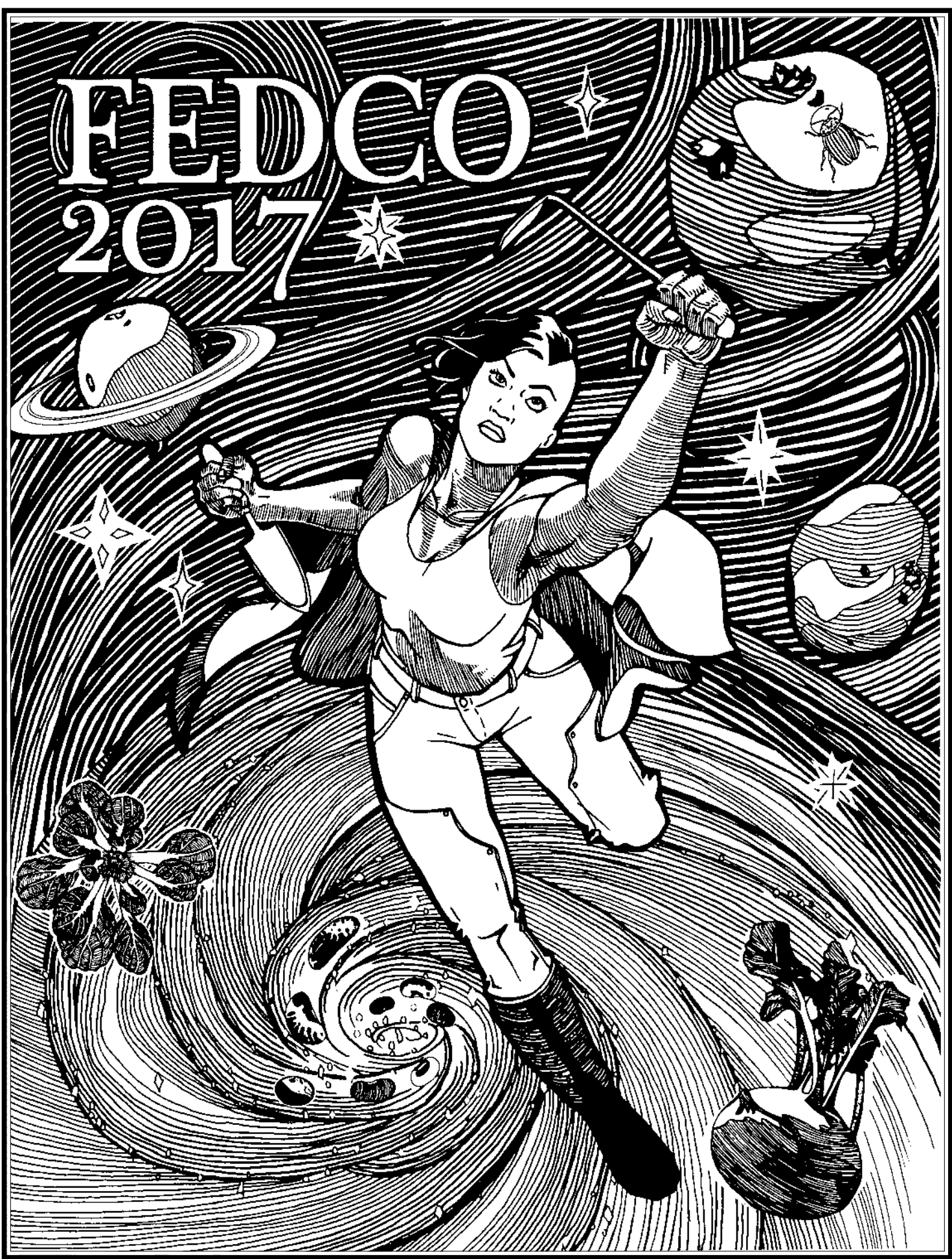
Fedco 2017

Fedco Seeds

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FEDCO 2017



Welcome to Fedco's 39th Year

This year growers in central Maine saw the driest season in memory. As many of our wells ran dry, we were swept up in the torrent of a relentless and ugly election season that exposed so much intolerance, shallowness, and fear in our nation. Where do we go from here?

The potatoes in the cellar may be small this year, but they are not blighted. As farmers and gardeners, we must practice the balance of patience and action that our work cultivates, learning from our failures, honoring diversity as requisite for health, and taking time to observe the intricate connections all around us. We'll dig our storage roots, clean up beds, get our garlic in the ground, and await winter's great gifts: time for reflection, conversations with neighbors, and planning for future gardens and better seasons.

Putting together a seed order in winter and pushing those small hard seeds into the ground in spring are the kinds of practical imaginative acts that will help us move forward in an uncertain time of climate change and through shifting social and political climates. This year at Fedco, in addition to offering new varieties for greater garden diversity, we're taking a few exciting steps forward, committing to even greater transparency to help protect everyone's right to save seed (see next page), and installing solar panels to run our three warehouses.



Fedco Goes Solar!

With the overwhelming support of our members, we have contracted with ReVision Energy of Portland, ME, to install a ground-based photovoltaic system that, using 176 solar panels, will generate an estimated 94% of our entire cooperative's electrical needs. Our decision to do our part to stop burning fossil fuels is in keeping with our belief that we all need a stable climate in which to grow our food and support our agriculture. Construction is scheduled to begin later in November. When you come to our Tree Sale next spring, you will be able to see our new installation in action! (See p. 89 for more about how Fedco's members helped us finance this project.)

Catalog Cover Coloring Contest!

"I want to know one thing. What is color?" –Pablo Picasso

Who needs glossy color photos when you have descriptive language and smart illustrations? Although we're committed to our black-and-white newsprint catalog we like colors just as much as anyone. You'll find this year's catalog full of color-filled quotes and facts. And to celebrate this theme, we're having a coloring contest!

Meet Magic Molly, our cover's superhero. Trowel and weeder in hand, Magic Molly roams the cosmos rooting out corporate tyranny and planting the seeds of freedom. Channel your inner Kahlo, O'Keefe, or Gentileschi and let your talents and fancies roam the cosmos with Molly.

Enter our contest by mailing your original colored cover to:
PO Box 520, Clinton ME 04927.

Submit your entries by February 28, 2017. Crayons, pencils, paints, your choice. We'll award winners prizes of \$200, \$100 and \$50 gift certificates.

Learn more about our contest at fedcoseeds.com/color_covers.htm where you can download a pdf of the cover image so you don't have to mangle your paper copies on our website and on Facebook, so you can share which colorful cover:

Void where prohibited. We cannot accept electronic submissions. Fedco employees and their immediate family are encouraged to participate. All entries become the property of Fedco Seeds. We will adorn our warehouse



All of our seed is untreated.

We ship seeds to Canada:
Visit our website for details.

Where is Everything?

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Ordering information

| Fedco Division | Goods offered | Order form | Discount deadline | Ordering deadline | Shipments |
|------------------------|---|------------|-------------------|-------------------|-----------------------|
| Seeds | vegetables, flowers, herbs | p. 79 | none | October 31 | begin January 4 |
| Moose Tubers | seed potatoes, onion sets, ginger, sweet potato | p. 81 | March 3 | April 14 | early April–early May |
| Organic Growers Supply | soil amendments, cover crops, tools, supplies & books | p. 83 | none | none | year-round |

Our **Fedco Trees** catalog, available in October, lists fruit trees, berry bushes, ornamentals, perennials and tender bulbs. Our **Fedco Bulbs** catalog, available in June, lists fall-planted flowerbulbs and garlic. Call or email us to request these.

Full Index on Back Cover

Fedco Facilitation

phone: (207) 426-9900

Request a catalog: (207) 426-0090

email: questions@fedcoseeds.com

Phone hours: January–mid-May: Mon–Fri, 9am–4pm.

Mid-May–December: Tues, Weds, Thurs, 9am–3pm.

Contact us to:

- Request more catalogs or order forms. Or download these from our website.
- Get answers to ordering questions.
- Receive freight quotes and prices for bulk quantities for Moose Tubers and Organic Growers Supply.
- Resolve problems.
- Report seed quality issues. Be prepared with your order number, variety name, packet size bought, lot number if available, what went wrong.

Visit our Website: fedcoseeds.com

- to order online.
- to download order forms and catalogs.
- for up-to-date information on backorders and out-of-stocks for all divisions.
- to access online specials that arrived too late to make the catalog.
- to see photos of many of our cultivars.
- to access additional info and articles from previous catalogs.
- for Canadian orders.

How to Order

Order online at fedcoseeds.com.

Or mail your order to Fedco Seeds, PO Box 520, Clinton, ME 04927. Note our new mailing address!

All orders must include check, money order, or Visa, MasterCard, Discover or American Express info. No cash or food stamps, please!

Each division has its own shopping cart/order form. Detailed ordering information and forms:

Seeds, see pages 78-80.

Moose Tubers, pages 81, 85.

Organic Growers Supply, pages 83, 85.

"It's up to us—up to all of us—to change the world so every time we look around, we recognize those basic principles of life...I want to talk about our shared responsibility to leave this place better than we found it. Not better from a corporate, make-more-money mode, but a place of beauty, a place that gives us great pleasure throughout our days and throughout our lives. Because that sense of beauty, of pleasure in what we are doing each day, is what is going to carry us forward through the difficult times that we live in now, and the more difficult times that lie ahead."

—Russell Libby

Transparency on The Four Seed Freedoms

Fedco is proud to be among the 38 seed company partners of the Open Source Seed Initiative (OSSI), an effort by a consortium of seedfolks, farmer-breeders, academics and others to keep as many seed varieties as possible in the public domain, unfettered by privatizing restrictions. (See my essay "In Defense of a Seed Commons" in our 2016 catalog at fedcoseeds.com/seeds/seed_ethics.htm)

The OSSI Pledge

OSSI is signing up as many breeders and seed companies as possible to pledge to keep as many varieties free as possible. Fedco currently carries 39 OSSI-pledged varieties designated by the OSSI logo in our catalog. We ask each buyer of these OSSI-pledged seeds to uphold this open source agreement:



You have the freedom to use these OSSI-pledged seeds in any way you choose. In return, you pledge not to restrict others' use of these seeds or their derivatives by patents or other means, and to include this Pledge with any transfer of these seeds or their derivatives.

The Freedoms

OSSI has identified the four seed freedoms:

1. *The freedom to save or grow seed* for replanting or for any other purpose.
2. *The freedom to share, trade, or sell seed* to others.
3. *The freedom to trial and study seed* and to share or publish information about it.
4. *The freedom to select or adapt* the seed, make crosses with it, or use it to *breed new lines and varieties*.

OSSI opposes intellectual property (IP) provisions that restrict those freedoms.

Fedco's Commitment to Transparency and Seed Saver's Rights

In keeping with our long tradition that began with my two-part essay "Do you know where your seed comes from?" published in our 1995 and 1996 catalogs, we now pioneer Seed Savers Rights/Transparency, a feature that came out of OSSI Board discussions. In this year's catalog, we identify varieties with IP restrictions that we had to agree to in order to offer the seeds. Such restrictions come in at least five different forms:

- Utility or trait patents restrict all four freedoms. Fedco does not knowingly sell trait- or utility-patented varieties. See p. 38 in the lettuce header for a more detailed explanation of why we oppose utility and trait patenting and why we do not carry such patented varieties. Our description of **2984**

Freedom Lettuce Mix on p. 44 expands on the copyleft concept that provides the rationale and *modus operandi* for OSSI.

- Contractual agreements with suppliers that restrict seed to one-time use and forbid seed saving, exchanging or selling saved seed, or using seed for selection or breeding purposes. See, for example, **248** Masai bean. These contracts restricts all four seed freedoms.

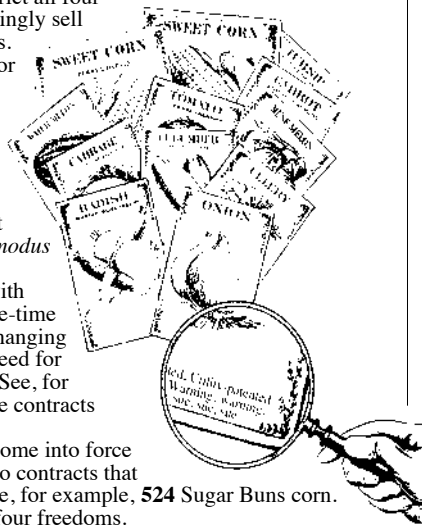
• Bag-tag agreements that come into force when we open the bag, similar to contracts that restrict seed to one-time use. See, for example, **524** Sugar Buns corn. Bag-tag agreements restrict all four freedoms.

- Licenses that allow us to produce proprietary seed in exchange for royalties, but forbid using it for selection and breeding purposes. These licenses restrict the fourth freedom.

• Plant Variety Protection (PVP), a form of limited patent protection that restricts only the second freedom, allowing seed saving for own use or breeding purposes. See, for example, **3315** Gypsy broccoli.

This is a work in progress to be continued in future catalogs.

—CR Lawn

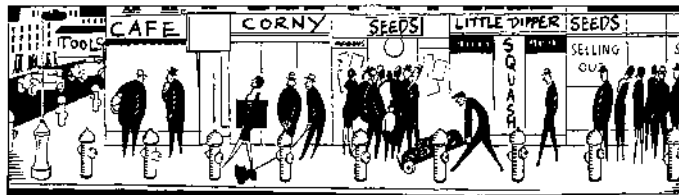


Fedco Seeds guarantees that all items we offer are fully satisfactory. If you are dissatisfied because of any product defect, we will either replace the item or refund the purchase price.

Limitation of Liability

Because good results depend upon weather, soil and cultural practices over which we have no control, we limit our liability in all instances to the purchase price of the seeds, as is customary in the seed trade. The liability of Fedco Seeds for breach of warranty, or any loss or damages arising out of the purchase or use of our products, including loss or damages resulting from any negligence whatsoever on our part, or strict liability in tort, shall be limited to the purchase price. By acceptance of the merchandise, the buyer acknowledges that the limitations and disclaimers herein described are conditions of sale, and that they constitute the entire agreement between the parties regarding any warranty or liability.

Claims for errors in your order must be presented within 30 days of receipt of your order. Claims for defects in Fedco Seeds' products should be presented to Fedco Seeds as soon as possible after discovery. Failure to assert claims within 30 days after discovery renders this warranty null and void.



New Seed Varieties for 2017

- 288** Purple Podded pole bean: From the Ozark Mountains to you!
- 368** Croissant pinto bean: Companion to French Breakfast radish?
- 506** Cafe hybrid sweet corn: Start off your corn season with a cob of Cafe!
- 520** Inferno hybrid sweet corn: A new selection adapted for global warming?
- 572** Latte hybrid sweet corn: What do coffee and corn have in common?
- 590** Cappuccino hybrid sweet corn: We have no idea!
- 927** Mayor hybrid canary melon: A major new taste treat!
- 1629** Bonbon hybrid buttercup squash: The creamy filling is in its texture!
- 1686** Little Dipper hybrid butternut squash: Defies powdery mildew!
- 1744** Tom Fox pumpkin: Bet your jack-o'-lantern program can handle this!
- 2028** Coral carrot: Coral reefs may be endangered; this carrot is not.
- 2273** Hild's Blauer winter radish: For when the winter winds blauer!
- 2285** Saitaro daikon radish: To the rescue as dusk extinguishes Winter Light!
- 2433** Ramps: Another addition to our ramped-up permaculture selection!
- 2441** Ed's Red shallot OG: For those who want an open-pollinated shallot!
- 2445** Cabernet hybrid red onion OG: Let's drink to an early red onion!
- 2472** Patterson hybrid onion: A knock-out of a replacement for Copra!
- 2487** Talon hybrid onion: A successor for Varsity and not a bench-warmer!
- 3049** Puntarelle chicory: Discover a new form of vegetable!
- 3282** Kaori green shiso: A thrill of a perilla!
- 3334** Hestia brussels sprouts: So easy to grow will become a household name!
- 3449** Scarlet kale OG: Listed on web last year, now comes into the catalog!
- 3647** Mars celeriac: Is there life on Mars? Only a short life in this catalog!
- 3737** Chocolate Cake pepper: Another great farmer-breeder project!
- 3769** Aconagua pepper: Fedco finally scales the peak, finds the pepper!
- 3829** Chinkayo hot pepper OG: Festoon your kitchen with ristras!
- 4041** Pink Berkeley Tie-Dye tomato OG: Best of the Boar Series tomatoes!
- 4051** Jaune de Flammé tomato: My new flame in the early orange class!
- 4241** Momotaro hybrid tomato: Japan's favorite fresh market tomato!
- 4310** Akamuro rice: Another gift from Japan; grow rice in Maine!
- 4311** Hayayuki rice: For the wet spot at the bottom of the garden!
- 4313** Titanio rice: Upland rice from Italy for the best risotto!
- 4518** Santo cilantro: Saints alive, the slowest bolter!
- 4815** Red Flint ageratum: Strike a spark in your flower bed!
- 4860** Super Andrella aster: Super-size me!
- 4936** Purple Kisses carrot: The *Daucus carota* that bolts quickly for pleasure!
- 5072** Drumstick flower: A drumstick that can be embraced by vegetarians!
- 5226** Court Jester marigold: For poets, troubadours and jugglers everywhere!
- 5394** Freed Seed collection: A collection of OSSI-Pledged freed seeds!

Back in 2017

- 335** Tiger Eye bean: Tiger, tiger burning bright? Shall I bake you up tonight?
- 516** Ashworth open-pollinated sweet corn OG: It's rat selected!
- 692** Hopi Blue Flint corn OG: Beautiful blue kernels, easy to grind!
- 896** Opal Creek snap pea: Delicate yellow snap pea so good young & tender!
- 1392** Telegraph Improved cucumber: Word is out on this hot cuke!
- 2018** Tonda di Parigi carrot: For those without tilth who still want carrots!
- 2051** Nantes Fancy carrot: Our favorite OP carrot in a long-awaited return!
- 2481** Red Wethersfield onion: Storied OP red last offered in 2007!
- 2907** Sierra lettuce OG: About the longest standing lettuce in summer heat!
- 3325** Umpqua broccoli: Put some Umpqua oomph into your broccoli patch!
- 3442** Cascade Glaze collards: For tolerance to temperature extremes!
- 3457** Rainbow Lacinato kale: The best of Redbor & Lacinato in one package!
- 3645** Diamante celeriac: Despite the name, these jewels are the real deal!
- 3744** Tangerine Pimiento pepper: Little lights of sweet juicy pimientos!
- 4324** Utrecht Blue wheat: Is this the most beautiful wheat on Earth?
- 4698** Sweet Woodruff: Fragrance so rich it was strewn in medieval churches!
- 5539** Selma Suns sunflower OG: Polyheaded plethora of colors!

Some of these are in short supply; order early!

More in 2017? (You bet!)

Many additional items are expected including additional organic pea options, pelleted carrot seed for three varieties and more. More than ever we are using the web to announce new (and old) varieties whose arrival was still uncertain at catalog time. Don't miss out! While our catalog is frozen at its November 10 print deadline, our website is updated in real time. Consult fedcoseeds.com to see what else is available and find prices and descriptions.

Co-op Member-Only Special in 2017

Each year we make one or more special items that are in short supply available to our co-op members only. You must be a Fedco co-op member to order these items. You may join with your order. See p. 89 for details.

- 4107** Pink Princess cherry tomato

"Thank you for a whole summer of gardening happiness in one small package!"
—Kelly Winters, Bayville, NY

Last Chance and
Dropped Varieties
see page 111.

BEANS *Phaseolus vulgaris*

2 oz packet sows 25 ft; 1 lb, 200 ft. Avg 180 seeds/2 oz packet. All beans are open-pollinated.

Culture: Legumes have moderate fertility needs. Go easy on the nitrogen. Excessive nitrogen may induce some varieties to develop vines in moist hot weather. Tender, will not survive frost. Plant 3–4 seeds/ft in rows 24–30" apart. Pick frequently for maximum yields, but avoid disturbing foliage in wet weather to prevent spread of fungal diseases. White-seeded beans usually don't germinate as well as dark-seeded. Minimum germination soil temperature 60°. Optimal range 60–80°. Optimal temperature 77°. Emergence takes 16 days at 59°; only 8 days at 77°. Produce 97% normal seedlings at 77°, but only 47% at 86°.

| | | | |
|------------------|--------------------------|-------|--------------------|
| Diseases: | | HB | Halo Blight |
| ANTH | Anthraxnose | NY 15 | NY 15 Mosaic Virus |
| BBS | Bacterial Brown Spot | PM | Powdery Mildew |
| CBMV | Common Bean Mosaic Virus | PMV | Pod Mottle Virus |
| CTV | Curly Top Virus | R | Rust |
| DM | Downy Mildew | | |

Wider spacing reduces likelihood of SC (white mold). Don't disturb wet foliage.

BUSH GREEN BEANS

Provider (50 days) "There is no substitute for Provider beans," says Chris Carlin of Hyde Park, VT. For highest early yields—even under adverse conditions—and rich beany taste, nothing provides like Provider. Also excellent for canning and "my choice for freezing and dilly beans," says Elaine Carlson of Cape Porpoise, ME. Noted for its concentrated sets of round 5–5½" pods. Anne Elder of Community Farm of Ann Arbor, MI praises its amazing resilience: it and **225 Royal Burgundy** re-flower repeatedly after heavy pickings followed by rains. Came in one day ahead of Contender for earliest in our observation plot. Our best-selling variety in the catalog year after year. Released by USDA in 1965. Purple seed. Resistant to CBMV, NY 15, PM, DM, PMV.

204PR Provider ③
 A=2oz, \$1.50 B=8oz, \$4.20 C=1lb, \$6.50 D=5lb, \$18.00
 E=10lb, \$35.00 K=25lb, \$80.00 L=50lb, \$150.00

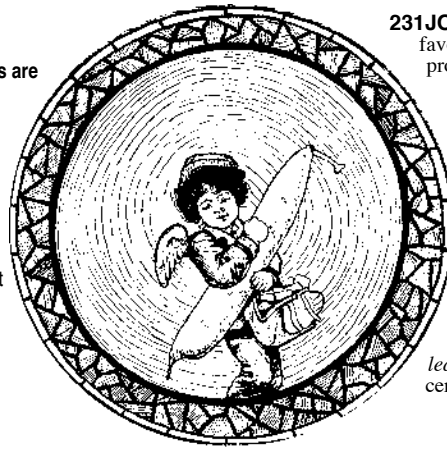
205PO Provider OG ID-certified. ①
 A=2oz, \$2.30 B=8oz, \$6.80 C=1lb, \$12.00 D=5lb, \$55.00
 E=10lb, \$100.00 K=25lb, \$240.00 L=50lb, \$450.00

210ST Strike (53 days) Market growers will strike it rich with heavy yields of medium-green 5½" slender smooth straight round pods. Strike sets the standard for earliness, appearance and ease of picking, and has a pleasing sweet beany taste. White seed. Resistant to NY 15 and CBMV. ③
 A=2oz, \$1.50 B=8oz, \$4.20 C=1lb, \$6.60
 D=5lb, \$22.00 E=10lb, \$36.00 K=25lb, \$80.00
 L=50lb, \$150.00

214GC Greencrop (53 days) An early flat-podded Romano type especially adapted to the North. Pods can grow up to 8" long while still retaining good quality. Bred by Albert F. Yaeger and Elwyn Meader at the University of New Hampshire. 1957 AAS. White seed. Tolerant to CBMV. ③
 A=2oz, \$1.50 B=8oz, \$4.20 C=1lb, \$6.60
 D=5lb, \$22.00 E=10lb, \$36.00 K=25lb, \$85.00

225BO Royal Burgundy OG (55 days) Straight 5" meaty purple pods turn bright green after two minutes of blanching. Less foliage than Royalty Purple Pod. Grows well even in cold conditions. Light brown seed. Resistant to CBMV, NY 15, PM. ID-certified. ①

A=2oz, \$2.30
 B=8oz, \$7.00
 C=1lb, \$12.00
 D=5lb, \$55.00
 E=10lb, \$100.00
 K=25lb, \$240.00
 L=50lb, \$450.00



231JO Jade OG (56 days) The original strain, favored by both market and home gardeners, producing great yields of tasty 5–7" straight slender round dark green beans that keep coming until late in the season, long after others have quit. Known for their holding quality, the tender pods with traditional bean flavor retain rich color longer than others, both on the vine and after picking. Jade's strong upright bush habit holds pods above the ground, reducing curling and tip rot. PVP has expired. Resistant to BBS, CBMV, NY15, CTV, tolerant to R. *Cautions: white-seeded Jade is a fussy germinator. Be sure your soil temperature is at least 60° and irrigate during dry spells.* ID-certified. ①

A=2oz, \$2.50 B=8oz, \$6.50
 C=1lb, \$11.00 D=5lb, \$40.00
 E=10lb, \$78.00 K=25lb, \$190.00
 L=50lb, \$350.00

238BB Bush Blue Lake 274 (57 days) Introduced in 1961 as a bush variety of the famous Blue Lake pole bean. Long considered the taste standard for home-garden bush beans. Pods average 6", fill slowly with tender plump beans. Very high yields. Not heat tolerant, but excellent for fall crops in areas with very hot summers. White seed. Resistant to CBMV, NY 15. ③
 A=2oz, \$1.50 B=8oz, \$4.20 C=1lb, \$6.60 D=5lb, \$22.00
 E=10lb, \$36.00 K=25lb, \$80.00 L=50lb, \$150.00

246RM Roma II (59 days) True flat bush Romano offers heavy yields of fleshy medium-green 5" pods that are slow to develop seeds. White seed. A small percentage will develop runners. Resistant to CBMV, NY15. ③
 A=2oz, \$2.00 B=8oz, \$5.40 C=1lb, \$9.00
 D=5lb, \$40.00 E=10lb, \$70.00 K=25lb, \$160.00
 L=50lb, \$300.00

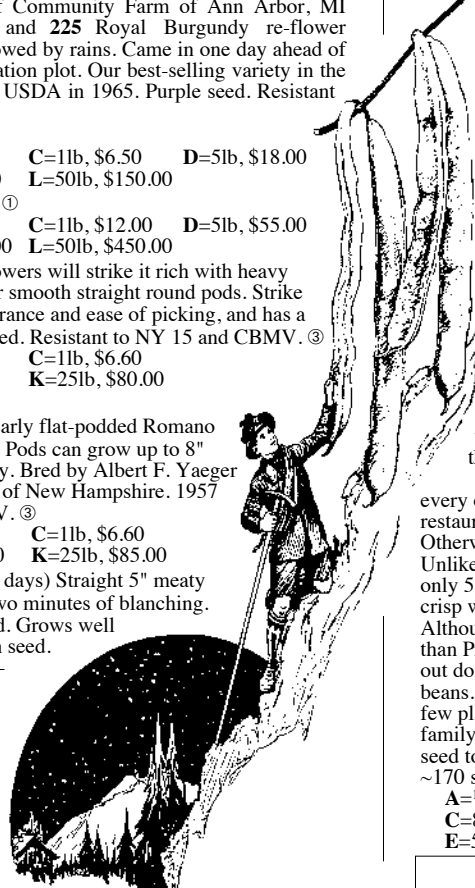
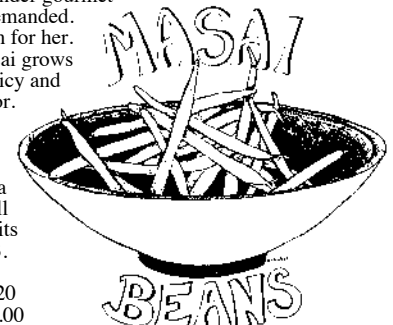
BUSH HARICOTS VERTS

Half oz packet sows 10-16 ft; 1 lb, 320-500 ft. Seeds are smaller than those of regular beans; **Avg 70-125 seeds/half oz packet.** *Haricot vert* is French for green bean. This type has fancier quality than American beans and commands a premium in markets. For optimal flavor and texture, pick when pods are still stringless and thinner than a pencil. Picking interval should be 48 hours or less.

Montpellier OG (57 days) No crop this year. *Not available in 2017.*

248MS Masai (58 days) Love the quality of French filet beans, but hate to have to pick them so often? One of a new class of haricot verts that holds longer without fattening, Masai allows a short vacation from the garden. Elaine Carlson calls them "one of the wonders of the world—I cannot believe how long these green crunchy slivers stand on the little plants." But Holli Cederholm found she had to pick them

every other day to achieve the tender gourmet restaurant quality her markets demanded. Otherwise the pods got too tough for her. Unlike classic haricot verts, Masai grows only 5" long, the slender pods juicy and crisp with a pleasing beany flavor. Although much more compact than Provider, each plant cranks out dozens of the diminutive beans. A space saver since only a few plants will suffice for a small family. White seed. Bag tag limits seed to one-time use: see page 3. ~170 seeds/oz. ⑥
 A=½oz, \$1.80 B=2oz, \$4.20
 C=8oz, \$12.00 D=1lb, \$22.00
 E=5lb, \$90.00



About our Supplier Codes

Know where your seed comes from! This unique Fedco feature provides information about the source(s) of each seed variety. Varieties with more than one supplier may have two or more codes. We code according to our best information at press time. When seed is short we must sometimes change suppliers later in the season. With notable exceptions, we generally choose varieties based on their merits rather than on our supplier preferences. We do not offer genetically engineered varieties, although we purchase from corporations engaged in genetic engineering. Use the supplier codes to help you make your own choices about whom you are supporting and which varieties are best for your garden or farm.

- ① Small seed farmers including Fedco staff.
- ② Family-owned companies or cooperatives, domestic and foreign.
- ③ Domestic and foreign corporations not part of a larger conglomerate.
- ④ Multinationals not to our knowledge engaged in genetic engineering.
- ⑤ Multinationals who are engaged in genetic engineering.
- ⑥ Manufacturers of neonicotinoids: Bayer and Syngenta.

Key to abbreviations and symbols in the catalog

- OG** after cultivar name = Organically Grown, entire lot is certified-organic seed. See page 86 for a key to abbreviations of certifying agencies and for more information about the OG and ECO designations.
- ECO** after cultivar name = entire lot is sustainably grown seed.
- BD** after cultivar name = entire lot is biodynamically grown seed.
- PVP** = Plant Variety Protected. Unauthorized propagation of the seed is prohibited. The use of PVP in the catalog is for informational purposes only and in no way constitutes an endorsement by Fedco of plant patenting.
- AAS** = All-America Selection.
- ✱ indicates cold-hardy through at least part of the Maine winter. See list on page 45 for more information.
- ☞ = a variety introduced by Fedco followed by the year first offered.
- Ω = a variety grown and supplied by the plant breeder. More on page 39.
- ✪ = a variety especially attractive to pollinators.
- ~ = approximately

Maxibel OG (61 days) We expect seed to arrive sometime in January. Please check our website for availability and prices. We are not taking orders until the seed is on hand.

251CC Concador (62 days) Pick your own pot of gold for multiple colors in this fast-growing niche. Concador is the yellow-bean lover's answer to 248 Masai. Like Masai, the uniform 4 1/2-5" yellow pods stay slender for a long time on the vine and will keep producing copiously if tended. Medium-sized upright plants larger than Masai. White seed. Resistant to CBMV, ANTH and HB. ~250 seeds/oz. ③

A=1/2oz, \$2.30
B=1oz, \$4.20
C=4oz, \$15.00

254VL Velour (62 days) Add the color purple to your filet bean offerings with elegant Velour. Built very much along the lines of Masai and Concador, Velour delivers ample harvests of slender straight bright 4-5" purple pods that turn green when blanched. Upright medium-sized plants. Light brown seed. Resistant to CBMV and HB. ~190 seeds/oz. ②⑤

A=1/2oz, \$2.30 B=2oz, \$4.20
C=8oz, \$15.00

BUSH WAX BEANS

Wax beans were developed in the 1830s.

262GO Golden Rocky OG (54 days) Heirloom from France, also known as *Beurre de Rocquencourt*, noteworthy for its slender juicy pods that melt in your mouth, light and not beany. Germinates well in cool wet conditions and retains vigor even under night temperatures in the 40s and 50s. Stands out as a vigorous and consistent cropper when many others falter in excessive rainfall and insufficient heat. Black seed. ID-certified. ①

A=2oz, \$2.30 B=8oz, \$7.00 C=1lb, \$12.00 D=5lb, \$55.00
E=10lb, \$100.00 K=25lb, \$240.00 L=50lb, \$450.00

Indy Gold (54 days) We have dropped Indy Gold. We recommend Gold Rush OG as its replacement.

Gold Rush OG (55 days) No more checkered flags in the wax bean patch. Gold pans instead. We expect seed for this NEW! variety to be on hand sometime in January. Please check our website for availability and prices.

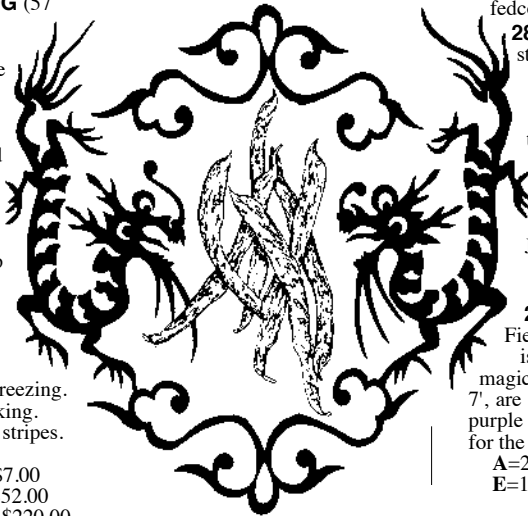
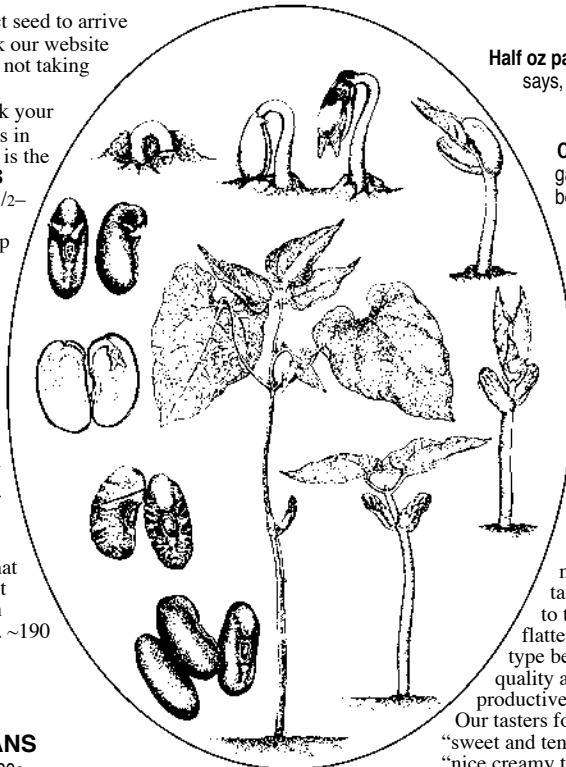
270GB Golden Butterwax (56 days) A white-seeded wax bean impressive for its rich yellow color and straight pods. We rate Butterwax as less juicy than Golden Rocky or Roedor, but beanier. Resistant to CBMV, NY15, tolerant to ozone damage. *Seed in short supply; order early.* ③

A=2oz, \$1.60 B=8oz, \$4.50

277DO Dragon Langerie OG (57

days) Also known as Dragon's Tongue. Tasty attractive 19th-century heirloom hails from the Netherlands. Compact stocky bushes bear abundant purple-violet flowers followed by flat 6" creamy yellow pods mottled with purple tiger stripes. Sunlight helps the colors become vivid, so plant farther apart in the row than normal bean spacing so interior sets develop good color. Crisp, stringless and amazingly juicy when eaten fresh. Cook or market promptly after picking; turns rubbery and loses snap when stored. Not recommended for freezing. Loses purple coloration in cooking. Seed purplish brown with blue stripes. ID-certified. ①

A=2oz, \$2.30 B=8oz, \$7.00
C=1lb, \$12.00 D=5lb, \$52.00
E=10lb, \$100.00 K=25lb, \$220.00



POLE BEANS

Half oz packet sows 5 poles; 2 oz sows 20 poles, 6 per pole. One customer says, "Many people—even gardeners and cooks—have no idea how much better tasting pole beans are. Most bush beans are cardboard by comparison."

Culture: We've used four-legged tips for staking for years. Gloria Seigers of New Sweden, ME, employs tall limber ash saplings that can be bent double without breaking. "Wired together, several of them make a nifty arbor and grand entrance to the vegetable garden." Pole beans and 318 Scarlet Runner climb them with enthusiasm. Will Bonsall suggests letting them climb sunflower stalks (give the sunflowers a 2-week head start). Tom Stearns uses a long sturdy fence (the most space-efficient way). All pole beans have strings that won't annoy you if picked early and often. Frequent clean picking keeps your vines vigorous and productive. Pick and compost those fat ones hanging low that got away, or cut them coarsely and add them to minestrone soup as suggested by Crystal Nichols of Greene, ME. If you leave them on the vine your plants will stop producing, satisfied they've fulfilled their reproductive mission.

Northeast OG (55 days) Not in stock as of press time. Consult our website for availability, prices and description.

281GO Golden Gate OG (59 days) Impressive for its pods' 10" span, they are nevertheless dwarfed by the 4,200' main span of the bridge for which this bean was named. These tall vines require a high stout stake, though nothing comparable to the bridge's 746' towers. The large flattened sunny yellow Romano-type beans have best eating quality at 6-8". Highly productive and freeze well.

Our tasters found them "sweet and tender" with a "nice creamy texture" when cooked. ②

A=1/2oz, \$2.60
B=2oz, \$6.00
C=8oz, \$20.00
D=1lb, \$36.00

282FX Fortex (60 days) The industry standard in pole beans, Fortex begins producing relatively early and keeps on going into fall long after others have quit. Its flavor and texture reign supreme, a distinctive nutty taste that can be enjoyed raw or cooked, with a tenderness retained even when the beans are very mature. Although the medium green pods may be harvested at 6-7" for gourmet filet beans, they still have good quality and sweetness without strings at 10", and sometimes can grow even longer. Vines stand up to repeated pickings, achieving impressive yields. Expensive walnut-brown seed is worth every penny. MT, ID-certified. ①

A=1/2oz, \$2.50 B=2oz, \$5.50 C=8oz, \$18.00

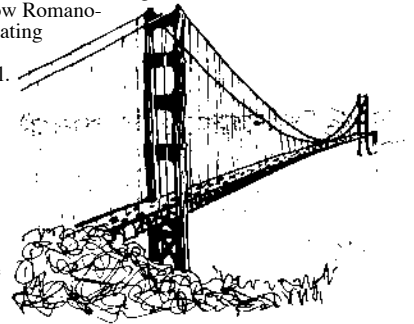
Fortex OG (60 days) Not in stock as of press time. Consult our website fedcoseeds.com for availability, prices and description.

285KW Kentucky Wonder (68 days) Also known as Old Homestead. Back in 1921, Stark Bros. opined, "Of all the climbing kinds, we do not believe there is a better one than Kentucky Wonder; it is an old variety with solid meaty pods, 7-9" long...and when cooked no bean is better. It is enormously productive, the pods hanging in great clusters from top to bottom of the pole." The nutty flavor makes them outstanding for freezing. As the beans mature, the pods flatten. Pick regularly to maintain quality and production, as they get tough once the beans enlarge. A favorite since the mid-1800s, Wonder was given its present name by the eminent Marblehead, MA, seedsman James J.H. Gregory in 1877. Brown seeds. ③

A=2oz, \$1.60 B=8oz, \$4.50 C=1lb, \$7.50 D=5lb, \$24.00
E=10lb, \$38.00 K=25lb, \$85.00 L=50lb, \$160.00

288PP Purple Podded Pole Bean (70 days) Discovered by Henry Fields in the Ozark Mountains in the 1930s, this purple-podded heirloom is favored by old-timers in that region. Some kids think these beans are magic because they turn green when cooked. The vigorous vines climb 6-7', are graced by lilac-colored blossoms, and produce copious tender bright purple pods. We have been including it in our multicolored pole bean mix for the past several years though it is NEW! to our catalog listing. ③

A=2oz, \$1.60 B=8oz, \$4.50 C=1lb, \$7.50 D=5lb, \$24.00
E=10lb, \$38.00



Am I available? At press time, availability for some varieties and sizes is uncertain. Please consult our website; if the item becomes available, you may order it. We regret these items cannot be reserved. Check the web!



Why do some of my purple vegetables turn colors when I cook them? Purple and purplish-red pigments vegetables are attributed anthocyanins. Anthocyanins are nature's pH test: in acidic environments, they manifest as red, progressing through pink, purple, blue, green and yellow as the environment becomes neutral and then alkaline. When you cook a purple string bean, two things happen: the anthocyanins break down, lessening their effect; and the plant cells themselves break down, diluting the acidity, which reduces or eliminates the purple effect of the anthocyanins, and, in the case of the bean, allows green chlorophyll to take center stage.



292RS Rattlesnake (70 days) "I've always been a Kentucky Wonder girl but got Rattlesnake for a substitute and am I ever glad. These beans are delicious fresh and frozen—beautiful, too," avers Catherine Hall of Ellsworth, ME. Called Preacher Bean in parts of the South, Rattlesnake produces a good harvest of round 6–7" pods with purple streakings said to resemble the markings of a rattlesnake. Tan seed with dark stripes. ③

A=2oz, \$1.60 B=8oz, \$4.50 C=1lb, \$8.00 D=5lb, \$24.00
E=10lb, \$38.00 K=25lb, \$85.00

Blue Coco OG (72 days snap) No crop this year; *not available in 2017*.

297MP Multicolored Pole Bean Mix (60-72 days) Multiculturalism in the bean patch. Pick a pole of polychromatic pods! We combine green, yellow, purple and striped varieties of staggered maturity into one packet. Great for those wishing to try all our varieties but with room for only one or two poles, and for CSAs who want to put a whole rainbow into each box. Varieties, our choice, will vary from year to year according to availability. ②③

A=1/2oz, \$1.60 B=2oz, \$3.60 C=8oz, \$9.00 D=1lb, \$16.00

FAVA BEANS *Vicia faba*

~35 seeds/pkt, 280 per lb. Also called broad beans and horse beans. Mainstays in many cultures from ancient Rome to modern-day Mexico, Brazil and India. Rich in fiber and iron and highest of all beans in protein.

Melanie Edwards of Eastport, ME, advises: "If you cook them fresh-picked they need to be parboiled only 1–2 minutes in lightly salted water. If they have been in the refrigerator a while, give them a minute more. Utterly delicious when a small bit of the cooking water is eaten with the bean. Gently break open the seed casing with your front teeth and squeeze out the inside. Shelling your own as you eat them is similar to the difference between eating corn on the cob and whole kernel corn. No comparison."

Culture: Well adapted to our cool northeast climate, they tolerate frost, but do not thrive in hot weather. Unlike with other beans, don't wait; sow the large seeds 3–4" apart as soon as the ground can be worked. Vermont market grower Alan LePage sowed his on April 11 in 2014. Harvest when the light green beans in the 6" glossy pods reach the green shell stage.

Windsor (75 days) Bush type. The classic heirloom variety, listed by Fear- ing Burr in *Field and Vegetable Gardens of America* in 1863. We sell more than half a ton of these each year. Brown seed.

298WI Windsor ③

A=2oz, \$1.60 B=8oz, \$4.50 C=1lb, \$7.50 D=5lb, \$26.00
E=10lb, \$45.00 K=25lb, \$85.00 L=50lb, \$160.00

299WO Windsor OG CCOF-certified. ③

A=2oz, \$2.80 B=8oz, \$8.50 C=1lb, \$13.50 D=5lb, \$60.00
E=10lb, \$110.00 K=25lb, \$260.00

Meet our trial team and some of our contributors frequently mentioned in the descriptions:

- Donna Dyrek, Loon Song Farm, Hartland, ME, Zone 4b, clay loam
- Heron Breen, St. Albans and Exeter, ME, Zone 4b, sandy loam and clay loam
- Dylan Brown, Newburgh, ME, Zone 5a, silt loam
- Anna Goff, Brooksville, ME, Zone 5b, clay loam
- CR Lawn, Colrain, MA, in the MA hill country, Zone 5b, sandy loam
- Adam Tomash & June Zellers, W. Gardiner, ME, warm edge of Zone 4, sandy loam
- Tom Vigue, Sidney, ME, near intersection of Zone 4b and 5a, Paxton very stony fine sandy loam, well-drained subsoil
- Jason Kafka told us he farms "in the Twilight Zone..." Parkman, ME, Zone 3b, 100 frost-free days, 800-850' elevation, very stony silt loam

MISCELLANEOUS BEANS

Black Kabouli Garbanzo OG (105 days) *Cicer arietinum* Crop failure; *not available in 2017*.

318SR Scarlet Runner (70 days) *P. coccineus* Climbing beans often grown as ornamentals for their brilliant scarlet blossoms that attract hummingbirds. Need trellises, fences or poles; will grow to 10–12'. Can be eaten either as snap or shell (95 days) beans. Beautifully mottled purple and black seeds may be the most beautiful in our catalog. "There is nothing like the face of amazed surprise when a child opens the pods from these plants," reports Anne Elder. Heirloom variety grown as early as 1750 by colonists and in 1791 by Thomas Jefferson. ~20 seeds/oz. ④ ③

A=1oz, \$1.60 B=2oz, \$2.60 C=8oz, \$6.60 D=1lb, \$11.00
E=5lb, \$45.00

Mitta Black (85 days) *P. vulgaris* No crop this year. *Not available in 2017*.

322RN Red Noodle Yard Long (90 days) *Vigna sesquipedalis* A pole or two of these, with their long pencil-thin 14–18" cascading burgundy pods makes a stunning garden entrance that draws people in and excites curious inquiries. Not the earliest of Yard Long beans, but surely the most spectacular. An indifferent performer in chilly Central Maine, Noodle preferred the warmer day and night temperatures of Zone 5 hill country Massachusetts and does even better a zone or two south. Slow to produce, first ripening for me in MA Sept. 5, but once underway it never looked back. Loves heat and moisture. Keep it picked to sustain production. An intriguing Asian specialty whose strong unique indescribable flavor is brought out best by dry-frying in a hot wok with peanut oil, garlic and tamari. Stringless and most tender when young and thin. Must be trellised. ~200 seeds/oz. ③

A=1/2oz, \$2.30 B=2oz, \$8.50 C=4oz, \$16.00 D=1lb, \$55.00
E=5lb, \$260.00

LIMA BEANS *Phaseolus lun*

~60 seeds/oz. Originally from Peru where they were vated 4,000 years ago.

Culture: Lima beans require more heat than I and are indifferent performers in cold wet sun when the beans bulge inside their pods.

Minimum soil temperature 60°, optimal range optimal temperature 85°. Emergence takes 11 68°, only 7 days at 77°. 80% normal seedlings 77°, but 88% normal at 86°.

323PC Packers (100 days) With global warming apparently bringing later fall frosts to our region, limas are becoming a Packers was the clear winner among a do ants in our 1997 trial way up north in Par defiance of the chilly location, its branching bush plants were laden with 5" flat pods that matured in profusion. Seventeen years later our tasters were again sampling Packers. One found it "a satisfying delicious blend of mealy and oily, with good bean flavor." Another, "almost too sweet and savory." If you've never experienced fresh baby limas right from the garden, you won't believe how delicious they can be. Light green-white seed. Only about 100 packets remain from our 2015 seed crop. No new production this year. *Order early!* ③

A=2oz, \$3.00

324JW Jackson Wonder (103 days) U.P. Hedrick in 1931 in *The Vegetables of New York* called it "the hardiest of all bush limas, very productive." In his *100 Vegetables and Where They Came From*, William Woys Weaver highly praised Jackson Wonder for baby pods that are so tender they can be cooked like snow peas, and mature beans so handsome they make a stunning bead necklace. Introduced in 1888, Atlanta farmer Thomas Jackson's drought-tolerant variety created a sensation for its productivity, even though it stands only 18" tall. Wonder features about 3 seeds per curved pod, grey in the shell stage and drying to buff with lovely purple and black mottling, as succulent as they are decorative. Its sweet-smelling white flowers attract butterflies. ④ ③

A=2oz, \$1.50 B=8oz, \$4.20 C=1lb, \$7.00 D=5lb, \$22.00
E=10lb, \$36.00

325KG King of the Garden (106 days) Also known as Henderson's Leviathan, for those with a season long enough to grow pole limas. Developed from a cross between Large White and Dreer by Frank S. Platt in 1883. Platt selected five- and six-seeded Large White pods so that King's long 8" pods dependably produce at least 4 large creamy-white seeds of splendid quality over an extended harvest period. Gregory called them the standard late pole lima and advised in his 1917 catalog that the plants are extremely vigorous so that "no more than two should be allowed to grow to a pole." Indeed, the vines can grow 10' high on fertile ground! *Caution: Not adapted to northern areas.* ③

A=2oz, \$1.60 B=8oz, \$4.50 C=1lb, \$7.50
D=5lb, \$26.00 E=10lb, \$45.00



"I love your seed selection, your prices, and your commitment to sustainable agriculture! Keep up the great work!"
—Jolene Miller, Roanoke, IL

SHELL AND DRY BEANS *P. vulgaris*

2 oz packet sows 25 ft; 1 lb, 200 ft. All bush beans except where noted.

Culture: In conditions of high nitrogen fertility some bush beans may develop vines in moist hot weather. Harvest shell beans when the beans are plump inside pods. For dry beans allow pods to dry on the vine until pressing the beans with your fingernail leaves no indentation. If heavy rains threaten just before maturity, pull plants by the roots and hang them in a dry place to finish or pick pods, shell and finish drying indoors. The past two Septembers were ideal for driving down beans.

326DW Taylor Dwarf Horticultur

Speckled Bays, this bush shell bean h since before 1800, producing cream-c shell when carmine-red splashes appe boil until tender (30-45 minutes) and and parsley for a late summer treat. B

A=2oz, \$1.60 B=8oz, \$4.00
E=10lb, \$36.00 K=25lb, \$80.00

328VC Vermont Cranberry (70 d

is a New England tradition since befo to be confused with 371 True Red Cr; different coloration, Vermont Cranbe to 6 speckled cranberry-colored shell hardy and easy to shell. Seed grown i Sometimes gets viney. ①

A=2oz, \$1.90 B=8oz, \$5.20
C=1lb, \$8.80 D=5lb, \$36.00
E=10lb, \$68.00

331CO Silver Cloud Cannellini (

days shell, 90 days dry) An improved Cannellini with an upright bush habit bred by Washington State University. Green with bright pink streaking, Silv Cloud's short fat 5-6" pods contain fi plump white seeds instead of the eigh skinny ones found in most cannellini. The overall appearance is more like tl

326 Taylor Horticultural bean than

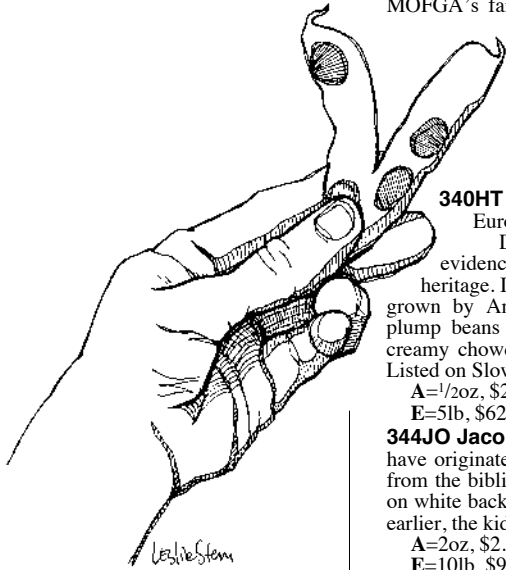
kidney bean. These make amazingly "incredibly good, especially in a s; Sylvia Loomer of Aberdeen, WA. Wl texture and dense nutty flavor are prized in minestrone and other soups and stews. Resists CBMV, CTV, tolerates R. ID-certified. ①

A=2oz, \$2.20 B=8oz, \$6.20 C=1lb, \$11.00 D=5lb, \$50.00

333LL Limelight (60 days shell, 85 days dry) A versatile variety, excellent

both as a shell and a dry bean. Plants benefit from loose trellising to avoid possible lodging. They set light green to white seeds similar in shape, color and taste to baby limas, except much easier to grow in our climate and sweeter with a buttery texture. Developed in Alberta, Canada. Only 75 packets remain; *order early*. ①

A=2oz, \$2.20



335TE Tiger Eye (65 days

shell, 85 days dry) The Tiger is back! Also called *Pepa de Zapallo*, originally from Argentina and Chile and known to me from the Abundant Life Seed Foundation collection.

Among the most beautiful of all beans, bright golden ochre with maroon swirls. That would be reason enough to grow them, but they a superb fresh shell and delicious baked beans with rich full-bodi. Wide 4" pods fill with large flattened kidney-shaped seeds mostly the shell stage but taking on more yellow as they dry. Bush plant with a slight tendency to vine. Dry on the vine Sept. 5 for me

BACK! ②

A=2oz, \$2.50 B=8oz, \$8.50 C=1lb, \$15.00 D=5lb, \$140.00
E=10lb, \$140.00

Fedco Supports MOFGA

We are in the fourth year of a five-year pledge of at least \$50 MOFGA (the Maine Organic Farmers and Gardeners Association) You help us meet that commitment:

- When you **donate all or part of your refund** from Organic Gr Supply, we match your refund donation dollar for dollar.
- If you join MOFGA or are already a member, we **donate 1% c Seeds or OGS purchase to MOFGA.**
- When you use the line on your Seeds or OGS order form to ma **optional donation to MOFGA. We will match your Seeds donation up to \$20.**

Our close cooperation with MOFGA reflects our longtime advoc sustainable and organic agriculture.

All prices are not created equal and not all is what it seems to most seed companies, we do not charge shipping on orders over \$50. Comparing prices also be sure to factor in our generous discounts.

336KE King of the Early (85 days) Beautiful mottled red baking bean. Seed propagated from a sample sent to us years ago by seed-saving customer Linwood Ware. King's ability to ripen early, its capacity to swell enormously when soaked, its utter dependability through hot summers and cool, and its robust flavor won our hearts. We've found King easy to grow and heavy yielding year after year. Seed grown in Maine. ①

A=2oz, \$1.80 B=8oz, \$5.00 C=1lb, \$8.50 D=5lb, \$35.00
E=10lb, \$58.00 K=25lb, \$110.00 L=50lb, \$200.00

Ireland Creek Annie OG (85 days dry) *Not available this year.*

338MF Marfax (86 days) These are the beans served at Sagadahoc MOFGA's famous baked bean, switchel and cider booth at the Common

Ground Country Fair. This chapter has vended at all 40 fairs and sold baked beans since 1996. Heirloom resembling Swedish Brown Bean, but earlier and higher yielding. Richly flavored brown baking bean very well adapted to our cool climate. Golden-tan seed produced in Maine. ①

A=2oz, \$1.80 B=8oz, \$5.00 C=1lb, \$8.50
D=5lb, \$35.00 E=10lb, \$58.00 K=25lb, \$110.00
L=50lb, \$200.00

340HT Hutterite (88 days) After enduring centuries of persecution in

Europe, the Hutterites, a communal Anabaptist sect, came to South Dakota from the Ukraine in the 1870s. Although there is no real evidence to back the claim, this bean has been credited to their cultural heritage. It may instead be a Russian selection of the China Yellow bean, grown by Americans and Canadians since the 1820s. The greenish-tan plump beans with a charcoal ring around the hilum cook into delicious creamy chowder in a little under an hour. 2-3' bushes are good yielders. Listed on Slow Food's Ark of Taste. ②

A=1/2oz, \$2.00 B=2oz, \$3.40 C=8oz, \$9.50 D=1lb, \$18.00
E=5lb, \$62.00

344JO Jacob's Cattle OG (88 days) Popular New England heirloom may have originated with Native Americans in the Southwest. Derives its name from the biblical story of Jacob and the spotted cattle. Its dark red speckles on white background are said to look like the cattle's markings. If harvested earlier, the kidney-shaped beans make superb shellies. MOFGA-certified. ①

A=2oz, \$2.20 B=8oz, \$7.00 C=1lb, \$12.00 D=5lb, \$48.00
E=10lb, \$90.00

350SD Soldier (89 days) Unlike our soldiers in most faraway wars, these Soldiers have a clear winnable mission within a defined timetable: to reproduce themselves every year for our mutual benefit! Large drought-tolerant white kidney beans with red-brown soldier-like figures on the eyes.

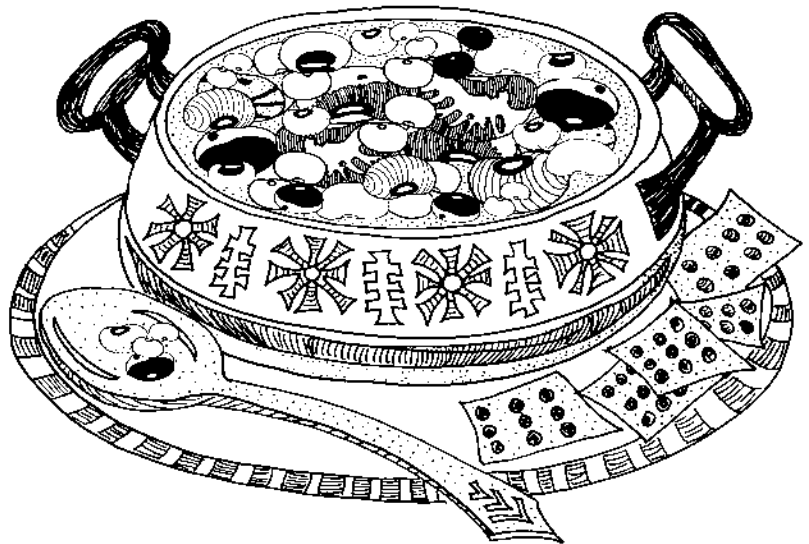
A New England favorite for generations. Seed grown in Maine. ①
A=2oz, \$1.80 B=8oz, \$5.00 C=1lb, \$7.50 D=5lb, \$35.00
E=10lb, \$58.00 K=25lb, \$110.00 L=50lb, \$200.00

353KE Kenearly (89 days) Yellow Eye is one of the signature varieties of Maine bean hole suppers. Kenearly, a selection of Yellow Eye, was developed at the Kentville, Nova Scotia, research station. Very similar to the Maine Yellow Eye strain we formerly sold, but with slightly larger eye and more uniform maturity. Plump oval medium-sized beans, cream with yellow eye. Seed grown in Maine. ①

A=2oz, \$1.80 B=8oz, \$5.00 C=1lb, \$7.50 D=5lb, \$35.00
E=10lb, \$58.00 K=25lb, \$110.00

356YO Calypso OG (90 days) Also called Orca or Yin-Yang bean. A dramatic find at the 1992 Common Ground Country Fair Exhibition Hall. Its stark markings are uncannily similar to the Chinese symbol. This black and white dry bean even includes a contrasting dot. Though not as heavy a yielder as 336 King of the Early, Calypso dependably produces 4-5 beans per pod, with a texture similar to Yellow Eye. Doubles in size when cooked. ①

A=2oz, \$1.90 B=8oz, \$5.60 C=1lb, \$9.20 D=5lb, \$38.00



358MN Monos Negros (90 days) The name means 'black monkeys' in Spanish. Marina Davis brought this small heirloom black bean to our attention. Plant economy and extreme earliness are its primary assets. Plants neither sprawl, twine nor get moldy. Monos ripens much earlier than Black Turtle, but with not quite as rich flavor. Seed originally collected by Will Bonsall from Salvadoran immigrants in Vassalboro, ME. ①

A=2oz, \$2.30 B=8oz, \$8.00
C=1lb, \$15.00 D=5lb, \$65.00
E=10lb, \$115.00

Agate Pinto OG (92 days) No crop; not available in 2017.

368CP Croissant Pinto (99 days) Order a Croissant?

No, you are not likely to find these in your favorite café, but here's where Fedco can go that hangout one better. These Croissants are medium-sized mottled beans, much better cooked up with your favorite meat than stuffed with an almond paste or a chocolate ganache. The pods hang from semi-upright plants that grow short runners under high-yield conditions. This modern cultivar (released in 2008) resists BCMV and rust, while retaining good pinto quality. Offered last year on our website; **NEW!** in the catalog. ③

A=2oz, \$1.90 B=8oz, \$6.00 C=1lb, \$9.50 D=5lb, \$35.00
E=10lb, \$58.00

371CO True Red Cranberry Pole OG (102 days) Although one of the very best baking beans, TRC can be a difficult seed crop to mature, especially finicky in cool moist seasons. Despite a dry fall, mine weren't dried down till Oct. 6 in Zone 5 Colrain, MA. Garden writer Michele Owen, author of *Grow the Good Life*, says, "I love chili, and True Red Cranberry beans cook up creamy without disintegrating with a richer flavor than any other red bean I've ever tasted." Inspired by a description of "Red Cranberry" in a 1700s gardening encyclopedia, legendary bean collector John Withee, after an 11-year search, finally obtained it from Mr. Taylor of Steep Falls, ME. The plump round maroon seeds without streaking look like Thanksgiving cranberries, unlike the speckled oval bush cranberry types. One of our oldest varieties, probably Native American, True Red Cranberry is listed on Slow Food's Ark of Taste. Soak seeds for 24 hours to aid germination. MOFGA-certified. *Very limited supply of seed; order early!* ①

A=1oz, \$2.10

376RK Red Kidney (102 days) An early-maturing light-red kidney bean developed at Cornell University. A favorite for chili and minestrone. Large beans mature at least a week earlier than similar types. Seed grown in Maine. ①

A=2oz, \$1.80 B=8oz, \$5.00 C=1lb, \$7.50
D=5lb, \$35.00 E=10lb, \$55.00 K=25lb, \$105.00
L=50lb, \$200.00



384BT Black Turtle

(102 days) We offer the Mid-night strain, an improved upright bush version of the heirloom, developed at Cornell University. A refinement of the original, first sold in 1832 by Grant M. Thorburn, one of the first U.S. seedsmen. Features small black beans with rich spicy flavor popular for soup. ①

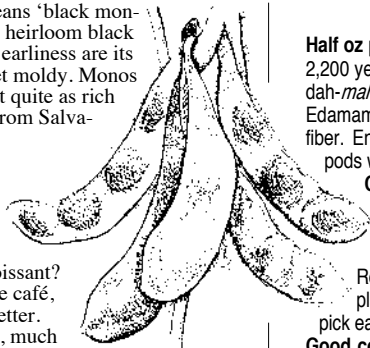
A=2oz, \$1.90
B=8oz, \$5.60
C=1lb, \$9.20
D=5lb, \$38.00
E=10lb, \$68.00
K=25lb, \$135.00

388SO Saturday Night

Special OG (105 days) Legendary plant breeder Elwyn Meader was hired by famous Maine baked bean company B&M (founded 1867) to breed a pea bean that would bake well and have a season short enough to grow in Maine. B&M lost interest when it was bought out by the

William Underwood Corporation in 1965 so the bean was never introduced to the public. Preserved by Elwyn's son John as X-3, this small pure-white pea bean is early, impressively productive and cooks well. Short sturdy plants bear more than 20 pods each and "dry down nice." John, recalling his father's knack for naming cultivars, suggested that Elwyn might have called it Saturday Night Special in honor of traditional Maine bean suppers and their explosive after-effects! So we did. Atlantic-certified. Seed in short supply; *order early.* ① 2009

A=1/2oz, \$1.90 B=2oz, \$3.00 C=8oz, \$9.00



SOYBEANS *Glycine max*

Half oz packet sows 10 ft; 1 lb, 320 ft. Avg 80 seeds/oz. Used in China more than 2,200 years ago, then introduced into Japan. The Japanese call them *edamame* (eh-dah-mah-may), meaning 'beans on branches,' and boil and salt them like beer nuts. Edamame are rich in vitamins A, C and E, calcium, phosphorus, protein and dietary fiber. Encouraged by its recent popularity surge, breeders are selecting for larger pods with sweeter beans.

Culture: Edamame are day-length sensitive. Sow around the same time as sweet corn and harvest when most of the pods have expanded but are still green without yellowing. For best flavor harvest in the evening.

Steam or boil the pods for 4-5 minutes, chill quickly for easy shelling. Refrigerate the leftover beans immediately. Fresh-market growers often cut off plants near the base, remove the leaves and bunch into 1 lb units, rather than pick each pod individually.

Good companions: Seedsman Tom Vigue plants edamame in the same furrow as his sweet corn. He thins each to one plant per row foot and suffers little yield loss from either crop: the soybeans are a gift. He sows a living mulch of forage radish that takes off after both main crops are dead. He follows the next year with potatoes which benefit in rotation from all three of these crops.

Saving seed: Soybean seed is easy to save; expect about 1 lb per 10 row feet.

Pests: Young plants 2nd only to brassica seedlings as woodchucks' preferred gourmet treat. Japanese beetles also love them but can be controlled by assiduous hand-picking.

483BF Beer Friend (83 days) Steam these up and crack open a bottle of Old Engine Oil! Growing vigorously on lush robust 2 1/2-3' vines, they were quicker to size up and grew bigger pods than the other eight varieties we originally tried, without sacrificing any flavor. They held their quality over a fairly long picking window. Enjoy them in August with fresh-picked corn and new potatoes, with or without your favorite brew. ⑤

A=1/2oz, \$2.50 B=2oz, \$6.40 C=8oz, \$25.00 D=1lb, \$48.00
E=5lb, \$210.00



489UO Sumo OG (87 days) We fell in love with its voluminous production of two- and three-beaned yellow-green pods, ripening early September in our 2014 trial. The towering 42" plants hung abundantly with pods and produced 3 heavy pickings over a 10-day window. Its nutty sweet milky goodness out-tasted 4 other contenders and shines best when steamed for 7 minutes, then served warm from the pot. Alas, we have a *very short crop* and only the swift will be served. CU-certified. ① **BACK!**

A=1/2oz, \$2.30

490TO Tankuro OG (90 days) In Japan, black-seeded edamame varieties are deemed to have a richer and sweeter flavor than the traditional green or tan-seeded kinds. Tankuro was the winner for productivity and pleasing flavor in our 2010 trial to find the best black-seeded variety. In 2010's exceptional heat, our May 25 planting produced robust 3' plants loaded with pods packed with an average of 2.4 beans each. They ripened beginning Aug. 17, the same day as Shirofumi. Harvesting would be 1-2 weeks later in a season with average heat units. Pick promptly when the immature seeds are bulging yet the pods are still dark green, before the plants begin to yellow. Those pods that you miss will dry down, maturing beautiful black pearls that can provide your next year's planting stock. MOFGA-certified. ①

A=1/2oz, \$2.00 B=2oz, \$5.50 C=8oz, \$11.00 D=1lb, \$19.00
E=5lb, \$85.00

491FO Shirofumi OG (91 days) Vigorous thigh-high vines make early concentrated sets of light green pods, averaging two beans per pod. The 10-day picking window is generally from late August through early September. An excellent substitute for limas in short-season areas. Our stock seed came from Tom Vigue, who has done considerable trials and selection work with this crop. Resists ANTH, CBMV. ID-certified. ①

A=1/2oz, \$1.90 B=2oz, \$4.50 C=8oz, \$11.00 D=1lb, \$19.00
E=5lb, \$85.00

492SO Sayamusume OG (92 days) Ripens just after Shirofumi with longer darker pods and sweeter beans. The best-tasting variety in CR's and Roberta Bailey's grow-outs with an appealing sweetness if allowed to ripen fully. 2.21 beans per pod in our plot, compared to 1.99 for Shirofumi. Ripens Aug. 25 for us most years; early September in cold seasons. Seed in short supply; *order early.* MOFGA-certified. ①

A=1/2oz, \$1.60 B=2oz, \$4.20

493MO Giant Midori OG (93 days) Ripens right after Sayamusume for Roberta, but staggers its crop in three pickings, ideal for home gardeners. As its name implies, not compact but instead 3-6" taller than Shirofumi. Also a heavier cropper laden with fat pods each filled with 2-3 very sweet buttery beans that "seemed to hold in the field better without yellowing," according to Melinda Fields of Turtle Ledge Farm in Hampton, CT. Despite its lateness, Fields implored us to keep stocking it. Recommended for both home enjoyment and commercial production as well as for feeding your woodchucks. CU-certified. ①

A=1/2oz, \$2.30 B=2oz, \$6.20 C=8oz, \$14.00 D=1lb, \$24.00

AMAZING CORN *Zea mays*

2 oz packet sows 50 ft, 1 lb sows 400 ft. Seeds per packet vary, open-pollinated selections average 100 seeds/oz, normal sugary varieties 140 seeds/oz and SE cultivars with shrunken seeds 150-160 seeds/oz. We do not offer supersweets as these are poorly adapted to cold soils without using seed treatments.

Identification and history: Seed catalogs in the 1800s featured "Indian Corn," decorative multi-colored ears with soft starchy kernels easily ground into flour or with flinty kernels often used to make corn meal and grits (680-695); dent corn with indented kernels eaten fresh or roasted in the milk stage or used to make flour, corn meal, grits and cereal; field corn for animal forage and silage (8046-55); and sugar corn, forerunner of today's sweet corn. Sweet corn seed, probably originally a mutation of flint or dent corn or both, first appeared in commerce in 1828 and became popular a generation later. As sweet corn became the first crop to be hybridized, most of the open-pollinated varieties disappeared between 1930 and 1970. All sugary enhanced sweet corn traces back to a single inbred developed in the 1960s in Illinois by Dr. Dusty Rhodes, ILL677a. Our trialers have found SE corn to be especially suitable to our climate, with good cool-soil tolerance and a near-perfect blend of sugars and corn flavor.

Culture: CAUTION: Untreated sweet corn seed will not germinate in cold wet soil. Please be patient and wait till soil warms to at least 60° before sowing, or start seedlings indoors and transplant at 3-6" before taproots take off. Tender, will not survive frost. Heavy nitrogen requirements. Rows 3' apart, 4 seeds/ft. Thin to 1' apart. When corn is knee-high,

sidedress with azomite (8190-3) or alfalfa meal (8268) to stimulate growth. Plant in blocks of at least 4 rows to ensure adequate pollination, essential for good tip fill. If you lack sufficient space for enough plants for good pollination, try hand-pollinating by cutting off the tassels and shaking their pollen onto the silks. Sweet corn is ready 18-24 days after the first silks show, the exact time dependent on the weather in the interim. Press ears 2" from the tips to assess kernel fullness. Harvest when the kernels are plump, soft, tender and filled with a milky juice. Most sugary enhanced varieties have an optimal picking window of 5-7 days, but some open-pollinated selections hold only 1-2 days.

Minimum soil temperature 50°, optimal temperature range 60-95°, optimal temperature 80°. Emergence takes 22 days at 50°, 12 days at 59°, 7 days at 68°, only 4 days at 77°. 98% normal seedlings at 77°, only 91% at 86°.

Testing: We randomly test sweet corn seed for transgenic contamination; see below right. We cold-test all significant carryover lots of sweet corn seed and post results on our website. Cold-testing mimics spring conditions and assesses suitability for sowing in cool soils.

Pests: For additional information see the sidebar on page 11. If you have trouble with crows pulling up seedlings, try Bird-Scaring Balloons (see 8544) or cover sowings with floating row covers (8814). Remove covers at 3-6" to avoid plant abrasion. Apply a few drops of mineral oil to the silks to reduce earworm damage. Interplant with pumpkins to discourage marauding critters. MOFGA's organic crop specialist Eric Sideman uses electric fence, two strands set low to deter small pests and two set high to discourage deer. If, like me, you don't want to electrify, I outwitted my lazy groundhog by surrounding the patch with the chicken wire I use for pea fence. A good dog may be the best critter deterrent of all.

Diseases:

MDMV Maize Dwarf Mosaic Virus
NCLB Northern Leaf Blight
R Rust
SCLB Southern Corn Leaf Blight
ST Stewart's Wilt

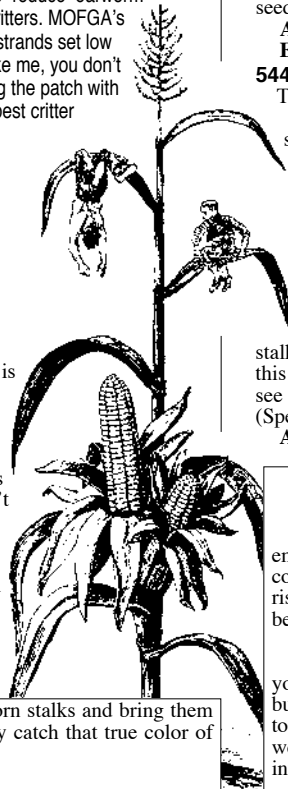
YELLOW SWEET CORN

506CF Cafe (68 days) **Synergistic F-1 hybrid.** For many of us, the first and most important stop of the day is our local coffee purveyor. Super early-bird Cafe is truly the first stop in the corn patch, and this ain't no bland swill, folks! In our 2016 corn trials, Cafe sold us on its stellar brew of (kernel) depth, nuanced texture and honest sweetness. Cafe's bright pure yellow 14-16 rows fill to the tip on a hefty 8" ear. While most growers don't expect much from early types, Cafe brings midseason size, flavor and quality right out of the gate, all combined with superb cold-soil performance. Great coffee is a life-giving reward for getting out of bed each morning, and excellent early corn keeps gardeners charging through those long summer days. © NEW!

A=2oz, \$3.20 B=8oz, \$12.00 C=1lb, \$22.00
D=5lb, \$105.00 E=10lb, \$200.00

I love to study the many things that grow below the corn stalks and bring them back to the studio to study the color. If one could only catch that true color of nature—the very thought of it drives me mad.

—Andrew Wyeth



508ST Spring Treat (71 days) **Sugary enhanced homozygous F-1 hybrid.** A good choice for early yellow corn connoisseurs. Ripens around the time of Sugar Buns, with longer ears that are easier to pick and a rich cornier taste unusual for an early ripener. Not as sweet as Sugar Buns, but better eating quality, ear length and appearance. *This is the final year we will offer. Seed in short supply; order early.* ©

A=2oz, \$3.90

516AO Ashworth OG (72 days) **Open-pollinated.** A composite of early varieties originally developed by the late Fred Ashworth of St. Lawrence Nurseries and marketed by Johnny's Selected Seeds starting in 1978. According to legend, Ashworth originally named his variety "Rat Selected" in honor of the rodents who broke into his seed storage room and alerted him to certain kernels that they preferred. Its short stalks have 6-7" yellow ears with good flavor. Be sure to harvest it at peak milk stage—like much open-pollinated corn it does not hold quality for long in the field. Germinates well in cool soil. ID-certified. © **BACK!**

A=2oz, \$2.40 B=8oz, \$9.00

C=1lb, \$17.00 D=5lb, \$80.00

E=10lb, \$150.00

520FN Inferno (73 days) **Synergistic F-1 hybrid.**

Fitting name for the 2016 Dante's Summer endured in the Northeast. In the extremely dry "growing" season, the Inferno row was a hot spot in our corn trials, with its beckoning glossy yellow kernels. It wasn't just the raging color that caught our attention: Roberta extolled its capital corn flavor and sweetness, while Breanna and Heron loved the big juicy kernels that popped on the initial bite, revealing depth and tenderness. Nikos said "YUM," likening it to bygone bicolor Luscious. Setting easy-to-pick large 8" ears with 16-18 rows, Inferno has sturdy-but-slender jointed zig-zag 6' stalks. Let's hope the only Inferno in store for summer 2017 is tasty corn on our tables. © **NEW!**

A=2oz, \$3.80 B=8oz, \$14.50

C=1lb, \$27.00 D=5lb, \$125.00

E=10lb, \$245.00

524SB Sugar Buns (74 days) **Sugary enhanced homozygous F-1 hybrid** from Crookham with sublime sweetness. About as sweet as our palates like, but not cloying like the supersweets. Sugar Buns does not have as good cold-soil emergence as other early corns. Contract limits seed to one-time use, discussed on page 3. Tolerates NCLB and ST. ©

A=2oz, \$2.60 B=8oz, \$10.00 C=1lb, \$19.00 D=5lb, \$90.00

E=10lb, \$170.00

541BS Bodacious RM (77 days) **Sugary enhanced homozygous F-1 hybrid.** A bold flavor for a bold name, Crookham's Bodacious RM dependably produces outstanding 8" ears with exceptionally sweet corny tender yellow kernels. Avowed corn fanatic Eric Sideman's choice for midseason delight. Same as the original Bodacious but with enhanced disease resistance. Some report it to be a fussy germinator. Contract limits seed to one-time use. Resistant to MDMV and R, tolerant to ST. ©

A=2oz, \$2.60 B=8oz, \$9.20 C=1lb, \$18.00 D=5lb, \$85.00

E=10lb, \$160.00

544HO Top Hat OG (80 days) **Open-pollinated** (F-6 selection from Tuxedo F-1). Oregon farmer/breeder/seed grower Jonathan Spero of Lupine Knoll Farm spent six years diligently selecting OP sweet corn lines for depth of flavor, sweetness and tenderness to give the hybrids a run for their money.

Tuxedo was a yellow sugary-enhanced F-1 hybrid that we regarded highly and offered from 1995-2012 before it disappeared from production. Top Hat, while variable in ear length (6-7 1/2") and width, is uniform where it counts most: good kernel depth, delicate texture, and full corny flavor balanced by just enough sweetness. It is tender enough to make good raw eating as well as to enhance salsas, chowders etc. Boasts slender delicate handles that make it easy to pick and husk, good tip fill, relatively long milk stage for an OP and holding ability off the stalk. An Organic Farming Research Foundation (OFRF) grant stimulated this new breakthrough in OP breeding. Our hats are off to Mr. Spero as we see the fruits of so many long efforts in organic breeding beginning to ripen. (Spero also bred 3306 Solstice broccoli.) OT-certified. © ①

A=2oz, \$4.10 B=8oz, \$16.00 C=1lb, \$29.00



We Test Sweet Corn and Beet Seed for Transgenic Contamination

To help ensure the purity of our seed, we have for the past sixteen years employed industry leader Genetic ID to test random samples of our sweet corn lots for the presence of transgenic contamination. Because of the risks posed by production of genetically engineered Roundup Ready beets, we have added beet and chard varieties to our GE testing program.

We remove any lots that test positive for transgenic contamination. A negative test result, while not *guaranteeing* genetic purity, improves your chances that the seed is uncontaminated. These tests are expensive, but in a time of genetic roulette, they are necessary though not sufficient to assure seed purity. Only if the seed trade takes an adamant position that we will not tolerate GE contamination in our product can we maintain any integrity in our seed supply.

547HS Honey Select (80 days) **TripleSweet hybrid**. For those who like firm flavorful corn here is one honey of a corn that pops in your distinctive sweetness that mixes well with its During the taste test, evaluator Heron Breen: all his will power not to gobble every ear from Dyrek's table. He said that it tasted "like the my childhood." Honey Select produces refined ears with 18-20 rows of subtly colored golden yellow kernels. Contains 25% supersweet kernels on each ear but need not be isolated from varieties to retain optimal flavor. Bag tag limit to one-time use. ©

A=2oz, \$2.70 B=8oz, \$10.50 C=11lb, \$95.00 D=5lb, \$95.00 E=10lb, \$175.00

Sumptuous (81 days) **Sugary enhanced hybrid F-1 hybrid**. No longer available. We mend **520 Inferno** (not Dante's) as replacement **561NM Incredible RM** (85 days) **Homozygous sugary enhanced F-1 hybrid**. Crookham's superior late-midseason gourmet selection was a full tassel-length ahead of the competition at our trial, where its handsome 8" tip-filled yellow ears were incredibly scrumptious. Incredible is not merely sweet, it really delivers a deep corn taste. Contract limits seed to one-time use. Good husk protection and tolerance to ST, enhanced resistance to MDMV, SCLB and R. Poor cold-soil emergence. ©

A=2oz, \$2.60 B=8oz, \$9.20 C=11lb, \$18.00 D=5lb, \$85.00 E=10lb, \$155.00

564KK Kandy Korn (89 days) **F-1 sugary enhanced hybrid**. Attractive deep purple husks and excellent holding quality make this a real winner at roadside stands. One of the first sugary enhanced varieties, Kandy Korn has stood the test of time and continues to enjoy well-deserved popularity. Bag tag limits seed to one-time use. Tolerant to ST, R. ©

A=2oz, \$2.50 B=8oz, \$8.00 C=11lb, \$15.50 D=5lb, \$75.00 E=10lb, \$145.00

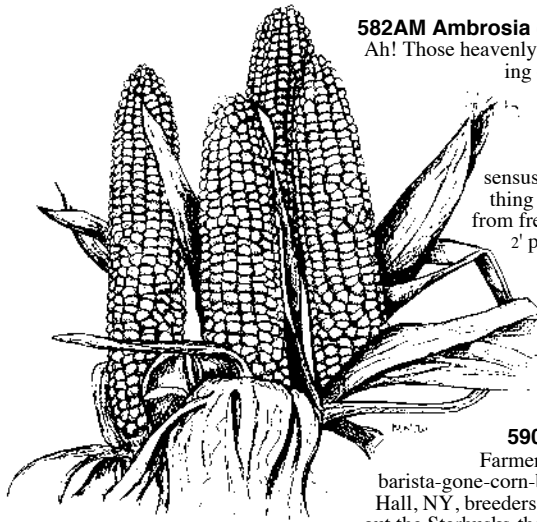
BICOLOR SWEET CORN

572LT Latte (68 days) **Synergistic F-1 hybrid**. We know what you're thinking: How could we replace Luscious with a corn named after a bourgeois coffee drink? But after our taste test, even staff skeptics were won over: "WOW, Corn plus Sugar!" "Beautiful bicolor, best flavor!" and "Full ears, full kernels!" Every tip was filled out on these super-early extra-fancy 8" ears with 14 rows. Such high quality and great taste is normally reserved for a later-maturity slot, but why not start the first corn picking with the good stuff? While it often bears only a single ear per stalk, Latte is easy to grow and exceeds its predecessor in cold-soil emergence. Will you miss Luscious? Instead, have a Latte and breath a sigh of sweet (corn) relief. We suggest staggered plantings for successive harvests. Intermediate resistance to R and ST. © **NEW!**

A=2oz, \$3.30 B=8oz, \$12.50 C=11lb, \$23.00 D=5lb, \$110.00 E=10lb, \$215.00

574ES Espresso (70 days) **Synergistic F-1 hybrid**. Quicker than quicksilver, fleetier than Fleet, springier than Spring Treat, Espresso bursts out of the gate and flashes to the finish. Has become the new favorite early sweet corn of Eric Sideman who says it has better flavor than **508 Spring Treat**. He seeds Espresso in the last week of April and transplants to the garden the first week of May using row covers for added warmth and frost protection. Direct seeding without row covers, trialer Donna Dyrek in 2012 in Zone 4 Hartland, ME, clay loam, enjoyed her first ears on Aug. 18, 3-5 days before her Spring Treat. Though not as long as the midseason corns, these 6" ears retained the good balance between sweet and corny that will satisfy your early corn craving. Tolerates R, ST. ©

A=2oz, \$2.80 B=8oz, \$11.00 C=11lb, \$21.00 D=5lb, \$98.00 E=10lb, \$195.00



582AM Ambrosia (75 days) **Homozygous sugary enhanced F-1 hybrid**.

Ah! Those heavenly moments of high summer! Out of the pot come steaming ears of bicolor bliss covered with dewdrops of condensation. Into my mouth where the tender corny kernels mix their sweetness into a total sensation of ambrosial delight. Our corn tasters, for all their enjoyment of the process, are a contrary lot, so when they come to consensus, as they did on Ambrosia, we knew we'd found something good. Ambrosia is perfect for a wide range of markets, from fresh home-garden use to long-distance shipping. The 6 1/2' plants show good early vigor. In stressful conditions the tips don't always fill. Contract limits seed to one-time use. Tolerates ST. ©

A=2oz, \$2.60 B=8oz, \$10.00 C=11lb, \$19.00 D=5lb, \$90.00 E=10lb, \$170.00

Luscious OG (77 days) **TripleSweet sugary enhanced F-1 hybrid**. Luscious is no longer available. We recommend **590 Cappuccino**.

590CP Cappuccino (78 days) **Synergistic F-1 hybrid**.

Farmer and Fedco staffer Hannah Hamilton asks "Who is this barista-gone-corn-breeder?" The answer is Seneca Vegetable Research of Hall, NY, breeders of eastern-adapted cultivars. However, we can't figure out the Starhusts-themed variety names either (see also Espresso, Cafe and Latte). With its strong flavor and performance, Cappuccino moves into the slot abandoned by Lancelot. Large full sweet tender creamy kernels announce peak corn season has arrived. The well-filled 8" blunt ears appear overloaded with 14-16 rows. In the drought of 2016, the sturdy thick stalks proved stress tolerant, allowing extended picking and second ear production. Rest assured we aren't gentrifying the corn patch—we're just looking for the tastiest ways for you to spend your Cornbucks. © **NEW!**

A=2oz, \$3.20 B=8oz, \$12.00 C=11lb, \$22.00 D=5lb, \$105.00 E=10lb, \$200.00

592SP Sparkler (78 days) Put a sparkle on your face next August with this handsome high-yielding **F-1 hybrid synergistic bicolor** corn. The long fat pointy ears, up to 9" with up to 18 rows, speak loudly of abundance and satisfy the most discriminating of palates. Plenty of good husk protection, long flag leaves and tillers for market growers who demand a strong easy-to-harvest plant. Ripened for Donna Aug. 23, 2010, from a June 3 sowing, two days ahead of her **541 Bodacious**. Tolerates R and ST. ©

A=2oz, \$3.30 B=8oz, \$12.80 C=11lb, \$24.00 D=5lb, \$108.00 E=10lb, \$205.00

Lancelot (82 days) **Sugary enhanced homozygous F-1 hybrid**. Lancelot is no longer available. We recommend **590 Cappuccino** as its replacement.

604SD Serendipity (82 days) **Sugary enhanced TripleSweet F-1 hybrid** spiked with **25% supersweet genes** (no, they're not transgenic!) Full-bodied flavor with good balance between sugary and traditional corn taste. Serendipity has the soft-crisp creamy texture and heavenly bouquet to savor again and again. Along with **547 Honey Select**, Heron's favorite in the 2011 trials. Isolate from other sweet corn varieties to bring out its best. Market growers will like its extended harvest window. Features 7-8" bicolor ears with good tip fill. Bag tag limits seed to one-time use. Resistant to SCLB. ©

A=2oz, \$2.60 B=8oz, \$10.00 C=11lb, \$19.00 D=5lb, \$90.00 E=10lb, \$170.00

SWEET CORN SELECTIONS AT A GLANCE

| variety | item # | days | color | type* | avg height | ear length | # rows |
|---------------|--------|------|---------|--------------|------------|------------|--------|
| Cafe | 506 | 68 | yellow | se-su-sh2 | 60-72" | 8" | 14-16 |
| Spring Treat | 508 | 71 | yellow | se-se | 72" | 7-8" | 14 |
| Ashworth | 516 | 72 | yellow | op | 60" | 6-7" | 12 |
| Inferno | 520 | 73 | yellow | se-su-sh2 | 72" | 8" | 16-18 |
| Sugar Buns | 524 | 74 | yellow | se-se | 76" | 6-7" | 14 |
| Bodacious RM | 541 | 77 | yellow | se-se | 87" | 8" | 18 |
| Top Hat | 544 | 80 | yellow | op | 60-72" | 6-7.5" | 12-14 |
| Honey Select | 547 | 80 | yellow | se-se-se | 84" | 8" | 18-20 |
| Incredible RM | 561 | 85 | yellow | se-se | 90" | 8" | 18 |
| Kandy Korn | 564 | 89 | yellow | se | 102" | 8" | 16 |
| Latte | 572 | 68 | bicolor | se-su-sh2 | 48-72" | 8" | 14 |
| Espresso | 574 | 70 | bicolor | se-su-sh2 | 72" | 6" | 12-16 |
| Ambrosia | 582 | 75 | bicolor | se-se | 78" | 8" | 16 |
| Cappuccino | 590 | 78 | bicolor | se-su-sh2 | 72-84" | 8" | 14-16 |
| Sparkler | 592 | 78 | bicolor | se-su-sh2 | 84" | 8-9" | 16-18 |
| Serendipity | 604 | 82 | bicolor | se-se-se-sh2 | 75" | 7-8" | 16-18 |
| SugarPearl | 622 | 72 | white | se-se | 72" | 8" | 14-16 |
| Luther Hill | 636 | 82 | white | op | 48" | 3-6" | 12 |
| Augusta | 639 | 84 | white | se-se | 78" | 8-9" | 16-18 |
| Tuxana | 652 | 86 | white | op | 108" | 9" | 14-16 |
| Silver Queen | 658 | 96 | white | su | 102" | 8" | 14-16 |

*genetic type

op = open-pollinated

su = normal sugary

se = heterozygous sugary enhanced

se-se = homozygous sugary enhanced

se-su-sh2 = synergistic

sh2 = supersweet

se-se-se = TripleSweet® sugary enhanced

If you plant corns of different color kernels next to each other, you will get some cross-pollination. Separate by 8-10 rows' distance to maintain color purity.



WHITE SWEET CORN

622SP SugarPearl (72 days) **Homozygous sugary enhanced F-1 hybrid.** Seedsman Tom Vigue, who has tried more than a few sweet corns over the years, deems SugarPearl "astonishingly good for such an early corn, easily surpassing 508 Spring Treat which I have grown for many years." I concur. I started feasting on its elegant 8" sparkling ears on Aug. 12 and I couldn't get enough of them. They have excellent tip fill for such an early maturing variety, creamy and delectable right down to the nub with lots of depth to go with that sugar. Add two whole weeks to your peak sweet corn eating experience! ⑤

A=1oz, \$3.80 B=4oz, \$14.00 C=1lb, \$45.00

Spring Snow (73 days) **Sugary enhanced homozygous F-1 hybrid.** Our supplier has dropped this variety and it is *no longer available*.

636LO Luther Hill OG (82 days) **Open-pollinated.** Plenty of seed remains from our vintage high-germ seed crop of this rarely-offered heirloom developed by Luther Hill of Andover Township, NJ, in 1902, and one of the parents of the venerable Silver Queen. The most popular sweet corn in parts of New Jersey for more than 50 years. Sweetest OP corn I've ever tasted, Luther makes multiple 3-6" miniature ears on modest 4' stalks. Because the suckers often yield good ears, each plant, if spaced widely, can make up to four ears. A great way to introduce yourself to sweet corn the way it was before the hybrids took over. OT-certified. ①

A=2oz, \$2.90 B=8oz, \$11.00
C=1lb, \$19.00 D=5lb, \$90.00

639GU Augusta (84 days) **Homozygous sugary enhanced F-1 hybrid.** Having supplanted even the venerable Silver Queen in our estimation, Augusta is one sweet corn variety Eli and I will not be without. Beginning Aug. 18, we enjoyed two weeks of delectable delirium with this empress of white sweet corn that achieves the pearly mean in good eating quality. Intermediate in maturity between 622 SugarPearl and 658 Silver Queen, it bears perfect substantial 8-8 1/2" cylindrical ears with dark green husks that sit low on 6 1/2' stalks for easy harvest and almost always fill to the tips. "2-3 ears per stalk, sweet and juicy" says Ohio's Welsby ⑤

A=2oz, \$2.50 B=8oz, \$8.80 C=1lb, \$16.50 D=5lb, \$78.00
E=10lb, \$145.00

652TO Tuxana OG (86 days) **Open-pollinated.** (F-6 selection from Anasazi Sweet x Tuxedo) Twin variety to 544 Top Hat, also developed by Oregon farmer/seed grower/breeder Jonathan Spero out of Tuxedo. Admiring its beautiful bright white kernels in 14-16 rows and 9" ears with great tip fill, one could easily have mistaken it for a hybrid such as Augusta or Silver Queen. In our 2014 taste-off its tender mouthfuls burst with sweetness. However, as with all open-pollinated corns, its optimal picking window is narrow. As the harvest of midseason varieties tapers off, 86-day Tuxana begins. Now I think all late-summer corn feasts will be formal affairs with Tux required. OT-certified. ② ①

A=2oz, \$4.10 B=8oz, \$16.00 C=1lb, \$29.00

658SQ Silver Queen (96 days) **F-1 hybrid.** Like Sugar & Gold to the previous generation, Silver Queen has become so classic as to constitute a generic brand. Most farmers claiming to offer it have long since switched to more modern hybrids. However, we know some who still prefer to grow the real Queen, and that's what we offer. Queen has long set the standard for late-maturing sweet corn with large handsome ears, replete with glossy white creamy sweet kernels that fill to the very tips. I use it as a succession to Augusta. It came

in on Aug. 31, 2012, and blessed our first week of September with its delicious lovely ears. In colder climates it sneaks in just ahead of those first killing frosts late in September. Other varieties may be sweeter, but I can't think of a better way to end the corn season. Bag tag limits seed to one-time use.

Caution: said to germinate poorly in cold soil, though we have received few complaints. Tolerates NCLB, SCLB, ST. ⑥

A=2oz, \$2.60
B=8oz, \$9.50
C=1lb, \$18.00
D=5lb, \$80.00
E=10lb, \$150.00



POPCORN

Seed counts vary widely among varieties. Market grower Jason Kafka says that popcorn is a wonderful novelty for CSA shares. Americans consume more than 16 billion quarts of it per year. Why not try growing some?

663JO Japanese Hulless OG (72 days) **Open-pollinated.** Use this variety to raise miniature corn for Chinese cuisine. Harvest the fingerlike baby ears around five days after silks appear. They are delicious in hors d'oeuvres and stir-fries and make excellent pickles. Or allow to grow to full size for popcorn in 110 days from sowing. The 5' plants each bear three to six 4" ears with white kernels. CCOF-certified. ③

A=2oz, \$5.20 B=8oz, \$20.00 C=1lb, \$38.00

671RW Robust 98114W White (98 days) **F-1 hybrid.** Taller, a bit later, higher yielding with larger kernels and ears, and greater ease of popping than the old Robust 21-82W, this midseason white hull-less popcorn has great eating quality—crisp and tender, light and flaky. The 6' plants have the stalk strength to survive September storms intact. "Nice long thin ears," says Kafka. Contract limits seed to a one-time use. ②

A=2oz, \$2.50 B=8oz, \$9.50 C=1lb, \$18.00
D=5lb, \$85.00 E=10lb, \$165.00

675DO Dakota Black OG (100 days) **Open-pollinated.** Outstanding in our observation plots two years in a row. Compact plants with one ear each. Our tasters rated the popcorn "Oh, so scrumptious." In addition to their popping qualities, Dakota Black's 4 1/2" dark maroon-black ears with 15 rows are extremely decorative, a must for the fall roadside stand. 4' stalks. ICS-certified. ①

A=2oz, \$3.10 B=8oz, \$12.00 C=1lb, \$22.00 D=5lb, \$105.00
E=10lb, \$200.00

677BO Pennsylvania Dutch Butter Flavored OG (102 days) **Open-pollinated** popcorn so good on its own that you won't need to add any nutritional yeast. Our trialers agreed that it was the best they'd ever tasted: creamy, buttery and delicious. Incredibly green and healthy 8' plants with very long dark green leaves set two 4-6" stocky ears per stalk, with 26-28 rows (occasionally 22) of fat creamy white kernels. Thanks to our friends at Southern Exposure Seed Exchange for enabling us to offer this pre-1885 Pennsylvania Dutch heirloom. SESE was the first to bring this variety to commerce, in 1988. QCS-certified. ①

A=2oz, \$3.20
B=8oz, \$12.50
C=1lb, \$24.00
D=5lb, \$105.00
E=10lb, \$200.00

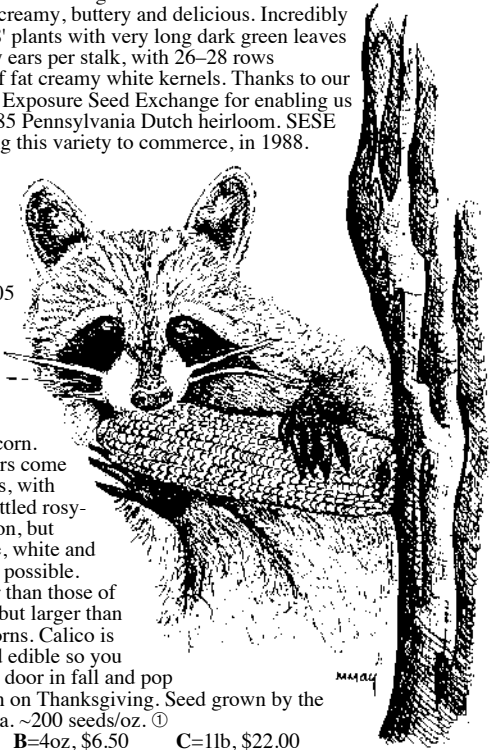
679CP Calico (105 days) **Open-pollinated.** An heirloom

dual-purpose corn with 5-8" ears that look like smaller versions of Indian corn.

The shiny bright ears come in an array of colors, with red, yellow and mottled rosy-brown most common, but brown, purple, blue, white and other combinations possible.

Kernels are smaller than those of most Indian corns, but larger than conventional popcorns. Calico is both decorative and edible so you can hang it on your door in fall and pop the very same batch on Thanksgiving. Seed grown by the Biseks in Minnesota. ~200 seeds/oz. ①

A=1oz, \$2.00 B=4oz, \$6.50 C=1lb, \$22.00



Most of the information in our pest management sidebars comes from Cornell's *Resource Guide for Organic Insect and Disease Management* (available online).

Pest: corn earworm

Cultural controls: use resistant varieties with tight husks such as 541 Bodacious RM or 658 Silver Queen, choose short-season varieties, release trichogramma wasps. (Beneficial insects are available from Beneficial Insectary at insectary.com or 800-477-3715.)

Material controls: *Bt Kurstaki* (Dipel 8676-9), Spinosad (8685)

Pest: European Corn Borer (ECB) and fall armyworm

Cultural controls: mow and disk old corn stalks into the soil, release trichogramma wasps (found to give better control than insecticides in research by Cornell's IPM program on five organic farms) for ECB; none known for fall armyworm.

Material controls: *Bt Kurstaki*, Spinosad

Supplier Codes Know where your seed comes from! Details on page 4.

- ① Small seed farmers including Fedco staff.
- ② Family-owned companies or cooperatives, domestic and foreign.
- ③ Domestic and foreign corporations not part of a larger conglomerate.
- ④ Multinationals not to our knowledge engaged in genetic engineering.
- ⑤ Multinationals who are engaged in genetic engineering.
- ⑥ Manufacturers of neonicotinoids: Bayer and Syngenta.

ORNAMENTAL & DRY FIELD CORN

Average 100 seeds/oz. All open-pollinated. Days to maturity are for dry stage.

680PO Painted Mountain OG (85 days) Short efficient 5' plants, long thin 6-7" cobs. Painted Mountain is the hardiest, fastest-maturing grain corn in the world. Dave Christensen has spent 40 years developing it in the mountains of Montana from a diverse gene pool of about 80 strains of native corns. Contains vivid golds, oranges, reds and purples, about every shade of color known to corn. High in anthocyanins. Bred to withstand high winds, cold temperatures, intense heat and drought, and to survive global warming. Painted Mountain grows where no other corn can. In the chilly microclimate of her Tustin, MI, farm, most of Betsy Erickson's plants survived and recovered from a monumental hail/wind/thunderstorm on July 27, 2014. Her real thrill was in grinding and using the cornmeal, which is very tasty in pizza dough and in her Swedish Knäckebröd (recipe on our website). MOFGA-certified. ①

A=2oz, \$4.20 B=8oz, \$16.00 C=1lb, \$30.00 D=5lb, \$135.00
E=10lb, \$260.00

682CO Abenaki Calais Flint OG (88 days) An improved strain of Roy's Calais Flint, selected by Vermont seed grower Jack Lazor for 10-row ears and strong feeder roots. The original, kept by the northern Vermont Abenaki tribe for generations, had 8 rows of kernels. Abenakis passed it on to local farmers who shared it with Vermont seedsman Tom Stearns. Stearns has called it the most exciting heirloom he was ever given: "Incredibly early and able to grow well under cold conditions." Survived even the legendary summer of 1816 ("Eighteen hundred and froze to death.") Most of the 7-9" ears are golden yellow but a minority are a beautiful dark maroon. Tom Vigue says better adapted to our climate than Floriani; he prefers growing Abenaki, but prefers eating Floriani. MOFGA-certified. ①

A=2oz, \$2.50 B=8oz, \$9.00 C=1lb, \$17.00 D=5lb, \$80.00
E=10lb, \$150.00

688FO Floriani Red Flint OG (100 days) *Z. m. var. rostrato* Steady appreciation from the cognoscenti has now replaced the unprecedented demand this variety commanded a few years ago after *Mother Earth News* incorrectly credited Floriani with having 20% protein content. 12% is probably more accurate, compared to about 9% for most other varieties. Beautiful cobs with fabulous flavor. The red pointed kernels (white when immature) are easy to shell and grind into a fine pinkish meal that bakes with an appealing spongy texture. Floriani's richly sweet delicious corny taste beat the competition silly in our pancake and cornbread muffin bake-off. Family heirloom brought from the Valsugana Valley of Italy by William Rubel. Once the staple polenta corn in the valley and named for Rubel's friends who've grown it there for many years. MOFGA, QCS-certified. ①

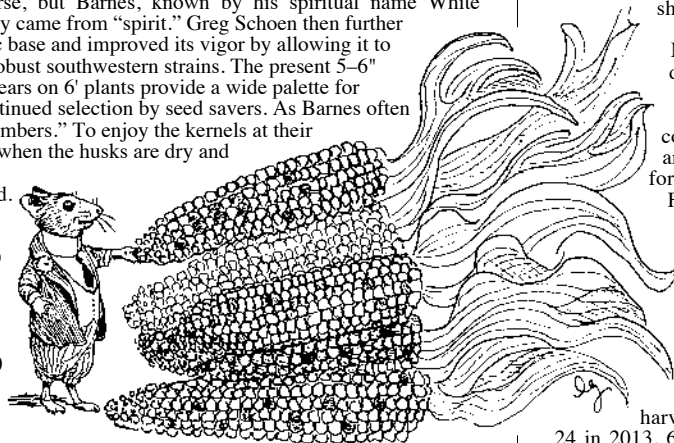
A=2oz, \$2.70 B=8oz, \$10.00 C=1lb, \$19.00 D=5lb, \$90.00

692HO Hopi Blue OG (100 days) Precursors of this strain have been raised continuously for 800 years on the mesas of northern Arizona. Used by the Hopis to make ceremonial *piki* bread. Tall 9' plants produce large 8-10" ears with beautiful deep kernels easily ground into flour. Very drought-tolerant, with a long taproot. Dick Burnham of Talking Crow Organic Farm in western Massachusetts reports it is not just for flour, it is good to eat, "crunchy, corny and wholesome." CCOF-certified. ③

A=2oz, \$3.90 B=8oz, \$15.20 C=1lb, \$25.00

695GO Glass Gem OG (110 days) Quite a story lies behind the translucent jewel-like kernels of this remarkable rainbow corn with its unique color tones. Oklahoma farmer Carl Barnes, of half Cherokee, half Scots-Irish ancestry, spent decades acquiring and crossing traditional Native American corn varieties. These gems are probably derived originally from his matings of Pawnee miniature corns with an Osage red flour corn and another Osage corn called Greyhorse, but Barnes, known by his spiritual name White Eagle, said they really came from "spirit." Greg Schoen then further broadened its genetic base and improved its vigor by allowing it to "dance" with other robust southwestern strains. The present 5-6" stunningly beautiful ears on 6' plants provide a wide palette for appreciation and continued selection by seed savers. As Barnes often said, "The seed remembers." To enjoy the kernels at their peak colors, harvest when the husks are dry and brown. Each ear is a surprise when opened. Once dried, they can be ground into cornmeal. ID-certified. ①

A=2oz, \$4.60
B=8oz, \$18.00
C=1lb, \$32.00
D=5lb, \$150.00
E=10lb, \$250.00



While studying inheritance patterns in corn, Barbara McClintock crossed varieties and observed variegated color patterns within individual kernels, as well as among the kernels on a cob. This led to her extraordinary discovery of mobile genetic elements, genes that can jump around on a chromosome, or to another chromosome. Her findings were met with much skepticism, but she eventually received a Nobel Prize for her work.

PEAS *Pisum sativum*

2 oz packet sows 25 ft; 1 lb, 200 ft. Avg 250 seeds/2 oz pkt.

All peas are open-pollinated.

Culture: Peas are legumes with moderate fertility requirements. Avoid excess nitrogen: they can fix their own. Use **798** Legume Inoculant as an aid. They prefer cool, moist weather and dislike dry heat. Sow as early as ground can be worked for best yields. All peas produce more when staked; varieties over 2 1/2' must be supported. Use either **8772** Trellis Plus or chicken wire. Install support at planting time to avoid disturbing seedlings. Plant 8-10 seeds/ft on each side of supports in double rows. Set supports for rows 3' apart (5' if very tall varieties).

Young plants are very hardy but frost stops production at the blossom or pod stage. If you love peas as much as we do, try for a second crop in the fall. Timing is crucial, as peas ripen slowly in the cool of September, and frost will halt production. We recommend planting the first two weeks of July for a fall crop in central Maine. Warmer areas try later July. If the summer is hot, cool the soil with a hay mulch in advance of planting, or shade peas with tall crops to hold in soil moisture.

Peas are 25% sucrose by weight and lose nearly half their sugars within 6 hours at room temperature. That's why they taste best grazed right off the vine. Keep cool and shell as soon as possible after picking for freezing.

Not well adapted to southern climates where the spring heats up too quickly. Pam Dawling in Virginia has great success with Sugar Ann but cannot grow the tall longer-season Sugarsnap in her climate. Smooth-seeded peas germinate better in colder soils than wrinkle-seeded peas, but are not as sweet. Minimal soil temperature for pea seed germination: 40°. Optimal range 50-75°, optimal temp 75°. Emergence takes 14 days at 50°, 9 days at 59°, only 6 days at 77°. Dawling suggests that forsythia flowering signals time to sow snap and snow peas.

Powdery mildew looks like someone sprinkled talcum powder over the vines. It spreads rapidly when picking occurs in hot dry weather. Pick in early morning while the dew is still on the foliage to slow its spread and ensure best flavor. To combat the fungus, try Actinovate (**8634** in the supplies section). Fusarium causes vines to dry out, yellow, then brown and die. As a preventive, always sow peas on well-drained soil. Fusarium-infested soils are said to be pea sick. Do not save seed from plants afflicted with fusarium, which can be seed-borne. Rotate out of legumes for at least 4 years. Brassicas, especially mustards, are good disease-suppressant successions.

Diseases:

| | | | |
|------|--------------------------|-----|--------------------|
| F | Fusarium | PSV | Pea Streak Virus |
| PEMV | Pea Enation Mosaic Virus | W | Common Wilt race 1 |
| PM | Powdery Mildew | | |

SHELL PEAS

727TP Topps (56 days) Those who grew up during the heyday of our national pastime associate the name with bubble gum and baseball cards. We're talking peas, not hardball here, but whether as growers or as batters, we prefer Topps to a called Strike. In my 2010 trial, in a very warm dry spring in Zone 5, Topps bested both Strike and Premium with 5.42 peas per pod. In the more hospitable 2015 season one zone north, Topps, given ample rainfall in late spring, notched about 5-7 peas per pod. Not bad for a short vine (22-23") that bursts onto the second early scene with a concentrated set of very dark blunt 3 1/2" pods. In Central Maine second early meant July 10 ripeness, whereas it was 20 days earlier a zone south in a warmer spring. In West Tisbury, MA, Tom Hodgson and Christine Gault shelled their first

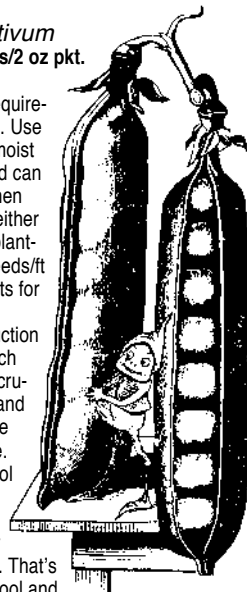
Topps on June 8 and won the Morning Glory Farm First Peas contest. Production is ample but brief; within a week the plants are all picked out. As for the flavor? "Makes your mouth water for more," said one taster. Others compared it closely with Early Frosty except Topps is easier to tell maturity and to shell. You can keep the bubble gum, we'll take the peas! Resists F1. ③

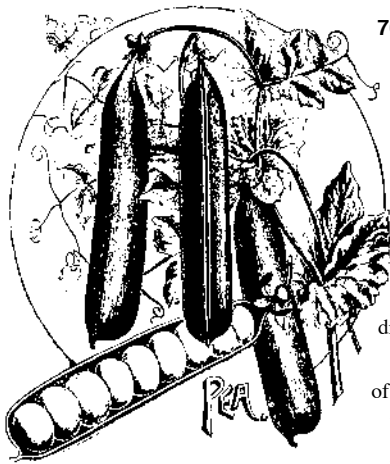
A=2oz, \$1.50 B=8oz, \$4.80 C=1lb, \$8.00
D=5lb, \$25.00 E=10lb, \$45.00 K=25lb, \$85.00

732FR Early Frosty (60 days) Outstanding quality and sweetness, a superior variety for freezing. At its best before the pods are completely filled. Tricky to pick, but one of the easiest to shell. Holds quality for a long time after picking. Vines grow up to 3'. Production is dependable, often exceeding 30 lb/100 row feet. In Zone 5 Colrain, MA, first harvest June 26 from April 12 sowing in 2014's cool spring; June 24 in 2013. 6.9 peas per pod in 2014. Pull out the occasional pale-green rogue off-type. Performs best in early sowings; susceptible to PM. Resistant to F and W. ③

A=2oz, \$1.40 B=8oz, \$4.50 C=1lb, \$6.50 D=5lb, \$20.00
E=10lb, \$35.00 K=25lb, \$70.00 L=50lb, \$120.00

Green Arrow OG (65 days) Consult our website fedcoseeds.com for availability, prices and description.





762PF Perfection 326 (66 days)

We haven't been able to find any true strains of Maestro on the market, but those searching for that revered variety may want to give Perfection a try. These 3-4' vines showed great health and vigor that translated into an abundant crop of 3 1/2" pods, usually with 7-8 peas each. They outyielded the so-called Maestro strain we trialed alongside them. They hold color and texture well, resist wilts and drought, and are moderately sweet, meaty and only a bit starchy. We are overstocked; take advantage of our reduced prices. ③

A=2oz, \$1.40 B=8oz, \$3.20
C=1lb, \$6.00 D=5lb, \$16.00
E=10lb, \$30.00 K=25lb, \$65.00

779NA Iona Petit Pois (68 days) The discriminating French palate demands smaller sweeter more tender pods with peas that are only about half the size of the ones we eat here. Although it takes more time and trouble to pick a mess of these, the rewards are commensurate with the effort. A heavy yielder for a petit pois, Iona sets two and sometimes even three blunt 3" dark green pods per node, on short 24-28" vines, with exceptional sweet full pea flavor. "Iona rules, the best thing you ever put in your mouth," advise Ernie and Patty Case of Milo, ME. Tolerant to F1-2 and PM. ③

A=2oz, \$1.60 B=8oz, \$4.80 C=1lb, \$8.00
D=5lb, \$26.00 E=10lb, \$42.00

781LC Lincoln (70 days) With good shell pea varieties so hard to find, consider returning to this old English favorite that we still rate as the sweetest pea and the best for fresh garden grazing. First offered in America by J.M. Thorburn in 1908, the year before the first Lincoln penny. Vines up to 3' bear 3-3 1/2" slender curved pods with heaviest production in mid-July. Consistently 6-8 peas per pod, 7.14 average in 2011, 6.52 in 2012 from first picking on June 27. In 2004 our 60' row produced an all-time record 33 lb. Lincoln loves cool rainy Julys such as 2009 and 2014 but produces much less when July is hot and dry. Susceptible to PM and other diseases so a good choice only if you can get on your ground early enough in the spring. Tolerant to W. ③

A=2oz, \$1.40 B=8oz, \$4.50 C=1lb, \$6.50
D=5lb, \$20.00 E=10lb, \$35.00 K=25lb, \$70.00
L=50lb, \$120.00

Mayfair OG (72 days) No crop this year but still on our radar for the future. *Not available in 2017.*

792AL Alderman or Tall Telephone (75 days) All-America winner Mr. Big got the hype, but failed to supplant this old-time favorite as our #1 tall pea. In our trial, Alderman topped Mr. Big in peas per pod, 7.65-6.94, in yield 38-28 lb per 100 row feet, and in flavor. Alderman boasts vines of 5-6' or more under fertile conditions; needs strong staking and frequent picking. Introduced by renowned pea breeder Thomas Saxton around 1891 and first sold by Burpee in 1901. Resistant to W. ③

A=2oz, \$1.40 B=8oz, \$4.50 C=1lb, \$6.50
D=5lb, \$20.00 E=10lb, \$35.00 K=25lb, \$70.00
L=50lb, \$110.00

INOCULANT

Use these item numbers if ordering inoculants with a Seed order. They can also be ordered from the Supplies section, and some other inoculants are available only in the Supplies section, page 127.

798LG Garden Combo Legume Inoculant for peas and beans.

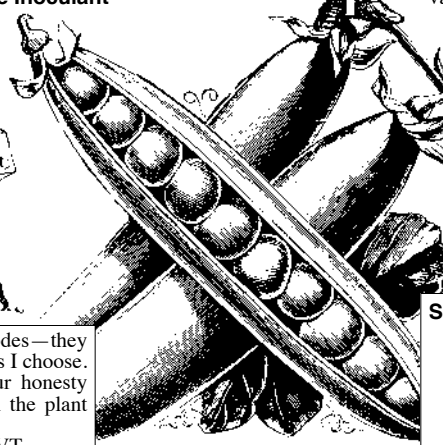
A=treats 8#, \$5.50
B=treats 50#, \$10.00

799SB Soybean Inoculant for soybeans.



"I absolutely love the supplier codes—they definitely influence which varieties I choose. I also continue to appreciate your honesty about strengths and drawbacks in the plant descriptions! You rock!"

—Marina Garland, Perkinsville, VT



EDIBLE PODDED PEAS

2 oz packet sows 25 ft. 1 lb sows 200 ft. **Culture:** Culture same as shell peas, except harvest snow peas before pods fill out. Don't pick snap peas too soon: snaps taste sweetest when completely filled. Young snow and snap plants can be eaten as greens, good in mesclun or lightly cooked. To serve pea shoots, remove the coarse tendrils and break the stalk into 3" pieces each with some leaves.



SNOW PEAS

Oregon Giant (60 days) This Oregon State University release bred by Dr. James Baggett is our most popular snow pea. A giant selection from a giant breeder, Oregon Giant is distinguished for its sweet rich green fat wide 4-5" pods good for stir-fries, steaming and eating out of hand. Retains sweetness so may be picked a little plumper than the thin-podded varieties. We recommend staking the intermediate 3-4' vines. Resistant to PEMV, PM and F1.

818GT Oregon Giant ③

A=2oz, \$1.60 B=8oz, \$4.50 C=1lb, \$7.50 D=5lb, \$25.00
E=10lb, \$42.00 K=25lb, \$88.00 L=50lb, \$150.00

819GO Oregon Giant OG ID-certified. For sizes B-K consult our website fedcoseeds.com for availability and prices. ①

A=2oz, \$2.50

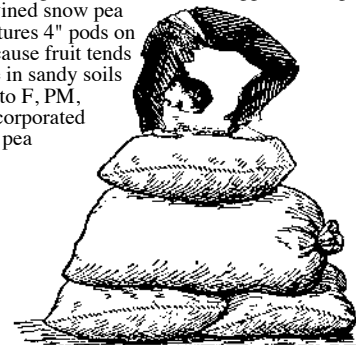
820GB Green Beauty (60 days) Thanks to superb breeding by genius Alan Kapuler, revered by his friends as "Mushroom," we get to enjoy this outstanding purple-flowered snow pea. Its lush foliage and astounding production made a huge impression in our 2011 trials. Long 5" light green pods, a few with pink blush, ridiculously tasty even when filled out. Flowers are in two tones. Stake this rampant baby; it can grow 7-8' vines. ②

A=2oz, \$2.90 B=8oz, \$11.50 C=1lb, \$22.00 D=5lb, \$100.00
E=10lb, \$180.00

Blizzard OG (61 days) Little snow last winter but to see if we will have a Blizzard of snow peas to enhance your summer, consult our website fedcoseeds.com for availability and prices.

826SP Oregon Sugar Pod II (62 days) Dr. Baggett's biggest claim to fame and still the most popular edible-podded pea in the world (although our customers greatly prefer his Oregon Giant). Baggett, whom we honored in our 1998 catalog feature on eminent plant breeders, passed away on Jan. 21, 2016, and left a lasting legacy of superior varieties and support for open source plant breeding. His short-vined snow pea from Oregon State University features 4" pods on 2-2 1/2' vines. Difficult to pick because fruit tends to set within foliage. Good choice in sandy soils or under dry conditions. Tolerant to F, PM, PEMV, PSV, resistant to W, it incorporated more disease tolerance than other pea varieties of that era. ③

A=2oz, \$1.50
B=8oz, \$4.50
C=1lb, \$7.50
D=5lb, \$25.00
E=10lb, \$42.00
K=25lb, \$88.00
L=50lb, \$165.00



Bulk Orders - To order quantities of four or more times the largest size listed here please email seedquality@fedcoseeds.com for availability and a price quote.

Supplier Codes Know where your seed comes from! Details on page 4.

- ① Small seed farmers including Fedco staff.
- ② Family-owned companies or cooperatives, domestic and foreign.
- ③ Domestic and foreign corporations not part of a larger conglomerate.
- ④ Multinationals not to our knowledge engaged in genetic engineering.
- ⑤ Multinationals who are engaged in genetic engineering.
- ⑥ Manufacturers of neonicotinoids: Bayer and Syngenta.

SNAP PEAS

883AO Sugar Ann OG (58 days) 1983 Silver All-America winner bred by Calvin Lamborn and named for one of his daughters. Very popular both with home gardeners and commercial growers. The earliest snap pea, ripening in Central Maine around June 20, earlier in warmer areas, when customers are still excited about peas and greedy to purchase them in quantity. Alan LePage says good timing is crucial for optimal root development early in the season, the key to high yields. If you sow early into cool soil with good organic matter and your soil doesn't heat up too fast, they produce bushels and bushels well into July and can command up to \$8 per lb. He has sown as early as Mar. 18 in a warm spring, more commonly in early April. Very good quality, sweetest of the dwarf snap peas. 2' vines are not as heavy-yielding as tall Sugarsnap. Use to start the season. Allow extra space between rows if you do not stake. *Still has a small percentage of off-types.* For sizes E-K consult our website for availability and prices. Resistant to W. ID-certified. ①

A=2oz, \$2.50 B=8oz, \$7.50 C=1lb, \$12.00 D=5lb, \$50.00

Mega (64 days) Mega is taking a break this year. We multiplied the stock seed and hope to have a good crop next time. *Not available in 2017.*

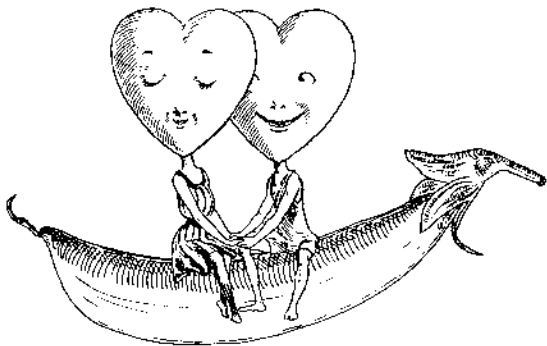
Cascadia (65 days) It's a snap to grow Cascadia. Ripening about a week later than Sugar Ann on slightly taller (2 1/2') vines, Cascadia sends a cascade of 3" pods, longer and darker green than Ann's and equally sweet. Deborah Dorland of Salem, SC, found them to be the best of several snap pea varieties in her southern locale. Developed by Dr. Baggett, tolerant to F & PM, and the first pea bred to be resistant to PEMV.

888CA Cascadia ③

A=2oz, \$1.50 B=8oz, \$4.50 C=1lb, \$7.50 D=5lb, \$25.00
E=10lb, \$42.00 K=25lb, \$88.00 L=50lb, \$165.00

889CO Cascadia OG ID-certified. For sizes E-K consult our website for availability and prices. ①

A=2oz, \$2.20 B=8oz, \$6.50 C=1lb, \$11.50 D=5lb, \$50.00



890SH Sugar Heart (67 days) Getting right to the heart of our need for a reliable short-vined snappy producer, Sugar Heart showed good early vigor and heat tolerance. At 2 1/2' its vines were 6" shorter than Sugar Ann's in our observation plot. They ramped up to peak production in mid-July from a May 9 planting, and had a short intense picking period. "Instantly sweet at first crunch," and "juicy," they were rated by our tasters as equally good or better than Cascadia. Two blunt pods per node. Bag tag limits seed to a one-time use. (See page 3.) Resists PM and F2. ⑥

A=2oz, \$2.50 B=8oz, \$7.50 C=1lb, \$12.50
D=5lb, \$50.00 E=10lb, \$85.00 K=25lb, \$180.00

Sugarsnap OG (68 days) Consult our website for availability and prices.

894SS Super Sugarsnap (66 days) Super Sugarsnap is slightly earlier and shorter (around 5'3") with about two-thirds the set of Sugarsnap but more concentrated over a shorter picking period. Although perhaps a tad less sweet than its taller counterpart, Super incorporates PM resistance as an important plus and its pods are a bit more curved. There is not a lot of difference between the two in flavor and texture. "Happy with Super Sugarsnap as a substitute for tall Sugarsnap. Seed is 'true and consistent,' yield is impressive," says one customer. Must be trellised. **PVP.** Bag tag limits seed to a one-time use. ③⑥

A=2oz, \$2.40 B=8oz, \$6.50 C=1lb, \$10.00 D=5lb, \$32.00
E=10lb, \$60.00 K=25lb, \$110.00 L=50lb, \$195.00

896CR Opal Creek (70 days) From a cross between Golden Sweet snow pea and tall Sugarsnap comes a new color for sugarsnaps! In her classic *Breed Your Own Vegetable Varieties* (9372 in our books section) Carol Deppe tells how Kapuler created this tasty yellow snap pea, named in honor of the beautiful Opal Creek Wilderness Area in the Willamette National Forest in Oregon. Visitors to our 2011 trials in Colrain, MA, enjoyed sampling these slender yellow pods and agreed Opal is a keeper. Our harvest began July 10 from an Apr. 30 sowing. 5-6' vines require staking. Unlike most snap peas harvest when the pods are partially filled out but before they fatten fully and get a little tough. Mild and not as sweet as most sugarsnap varieties, with a silky smooth texture and a pleasantly crunchy flavor, the immature pods are great in salads and out of hand. ② **BACK!**

A=2oz, \$3.60 B=8oz, \$14.00 C=1lb, \$25.00 D=5lb, \$120.00

MELONS

Fascinated by heritage melons? Amy Goldman's *Melons for the Passionate Grower*, a mouth-watering journey through her 100 favorite varieties, is an indispensable identification and cultural aid.

Melon seed lives more than 10 years with proper storage. 18th- and 19th-century growers preferred to sow 4- to 10-year-old melon seed, believing that such seeds produced plants that spread less and fruits with a finer perfume.

1 gram packet, about 35 seeds, sows 12 hills; 1/16 oz packet, about 60 seeds, sows 20 hills. 1 oz—about 960 seeds.

Culture: See the sidebar next page for additional cultural instructions. Melons produce the highest sugars when daytime temperatures exceed 80° and night temperatures are 60–75°. 2012 met those conditions to a T, so it was a great melon year. 2015 and 2016 started slowly but finished well.

Minimum germination soil temperature 60°, optimal range 75–95°, optimal temperature 80°. Emergence takes 8 days at 68°, only 4 days at 77°.

Days to maturity are from date of transplanting.

Diseases:

F Fusarium WMV Watermelon Mosaic Virus
PM Powdery Mildew ZYMV Zucchini Yellows Mosaic Virus
PRSV Papaya Ring Spot Virus

ANANAS TYPE *Cucumis melo*

Originating in the Mideast, Ananas is a type of white-fleshed netted muskmelon that develops considerable sweetness along with a hint of spiciness in summer heat.

916DV Dove (70 days) F-1 hybrid. A dove during the Vietnam War and again during the Iraq War, I became a Dove yet again in 2012 when I was shocked and awed to harvest a vine-ripe melon of that name on Aug. 6, my earliest ever. In all, I picked five that year, averaging 2.9 lb. That same season, before she joined Fedco's staff, Alice Percy ripened fourteen fruits in the first nine days of August and concluded, "I love Dove. So do my restaurant buyers." Dove may be the earliest, easiest and sweetest melon you will ever grow. The **ivory-colored flesh** with tropical fruity overtones has tested as high as 15.5 on the Brix sweetness scale. The greenish-orange skin shows scant netting and blushes as the fruits ripen. After harvesting let them sit 3–4 days to bring out their full flavor. So early, a candidate for succession plantings. Short shelf-life not for long-distance shipping. ②

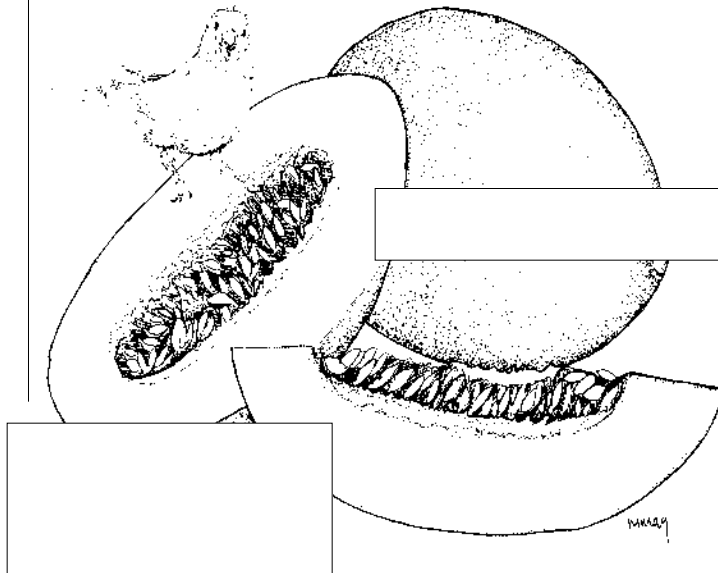
A=1g, \$2.60 B=3g, \$6.80 C=15g, \$32.00

CANARY TYPE *C. m.*

Named for their distinct yellow skin, canary melons have white interior flesh.

927MM Mayor (85 days) F-1 hybrid. A Spanish-bred canary whose name translates to 'bigger.' The blocky oblong deep golden-yellow 4–6 lb fruits with **white flesh** feel heavy for their 8–10" x 5–6" size. Mayor is not a crunchy "meh" grocery canary, but a ripe-honeydew-and-creamy-creshaw-like combo. Unlike other canary types, few furrows mar Mayor's smooth skin. Our staff says of Mayor: "Like a sorbet," "So smooth, amazing texture," "Essence of a flower, honey sweet" and "Buttery, tastes like candy." Good market-worthy yields in Maine of all places, and best of all, for two seasons, staffer Heron Breen has picked Mayors in early September and stored them in crates at room temperature until November. While the luxurious flavor does fade some, cutting into a good homegrown melon on Halloween is pretty awesome. Mayor does not slip from the vine. Good size, full color, and slight give to finger pressure on the blossom end mean it's ready to pick. Luckily, Mayor resists split ends better than any canary we've grown. Transplant only. Plastic mulch and row cover are *de rigueur* for success in the open field. ④ **NEW!**

A=0.4g, \$3.40 B=0.8g, \$6.60 C=2.4g, \$18.00



CANTALOUPE *C. m.*

Crop failures prevent us from listing any true cantaloupes this year. The melons below and on the next page are very similar to cantaloupes.

Prescott Fond Blanc (88 days)
Open-pollinated. Alas, crop failure.
Not available in 2017.

CHARENTAIS MELON *C. m.*

This French melon is a true cantaloupe, almost smooth with no netting. Green skins bluish yellow-tan when ripe; fruits emit a memorable redolence. Harvest at half-slip (they pull off with a moderate tug) and bring inside for a day or two for best flavor. Don't wait till full slip—they'll be over-ripe.

948AV Alvaro (77 days) F-1 hybrid.

A class of cantaloupe notoriously slow to ripen and difficult to harvest ripe without splitting, the ideal Charentais eluded our trialers for years until Heron found Alvaro. Heron calls it the Halona of Charentais melons because his, so early, matured around the same time as Halona in 2013.

Mine, first ripening on Sept. 4, 2014, the day after my French Orange and twelve days after my initial Halona, were still way earlier than any other Charentais I had ever tried. Almost as if sculpted, grey-green Alvaro shows remarkable uniformity. All 5 fruits, averaging 2.28 lb, ripened within a 3-day window, none splitting or showing any other damage. Even in water-bursting 2013, Heron had nary a split. Deeply sutured 5x6" fruits without netting fill the room with that incomparable Charentais aroma. Thick orange flesh luscious and succulent with silky but firm texture and rich full-bodied flavor—everything we've wanted in a Charentais but not found since French Orange. Size-A sold by seed count. ④

A=15 seeds, \$3.30 B=1g, \$9.00 C=3g, \$25.00

CRENSHAW MELON *C. m.*

Sweet Freckles (89 days) Open-pollinated. We have dropped this variety and it is no longer available.

GALIA-TYPE MELONS *C. m.*

1 gram packet, about 20 seeds, sows 7 hills.

The name Galia is the feminine form of the Israeli name *Gal* (meaning 'wave'). Developed in Israel around 1970 by breeder Zvi Karchi, Galias feature smooth lime-green flesh and a sweet taste with tropical overtones. Typically the fruits have corky netting but no ribbing.

Culture: Pull from the vine when the skin blushes yellow.

954DP Diplomat (76 days) F-1 hybrid. Vine-ripening Galia melons in the North and discerning just when to bring them in used to be a challenge comparable to making good diplomacy in the Middle East. While the latter remains intractable, Hollar mastered the former with this Diplomat. These 5+ lb fruits are early, fragrant and sweet all the way down to the rind. The two I harvested on the last day of August 2012 were delectable. Diplomat is easy to grow and easy to tell ripeness. It blushes yellow and slips off the vine. Enjoy this incomparable green-fleshed cantaloupe. Who needs a Passport when you have a Diplomat? Tolerates PM. ②

A=1g, \$2.30 B=3g, \$5.60 C=15g, \$25.00

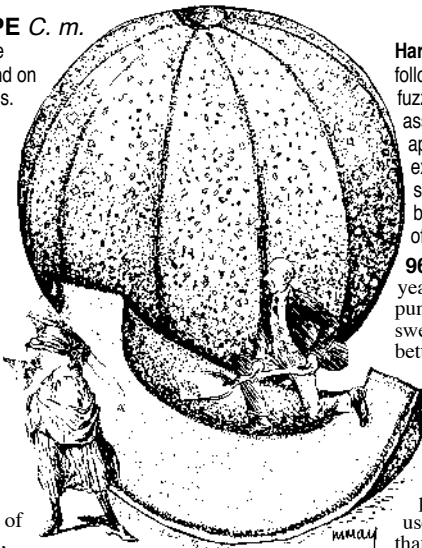
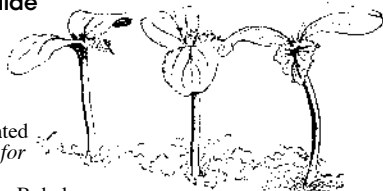
958AO Arava OG (80 days) F-1 hybrid. Some years back, during a spring trip to Israel, I visited Genesis Seeds, the producers of this stellar green-fleshed melon that is named for the long valley that traverses much of the desolate Negev Desert in southern Israel. Though it is hard to believe that anything will grow in such a place, these Arava melons are the signature Israeli variety found in all the markets. A necessity there at the edge of the desert, where stepping outside mid-morning in April feels like entering a blast furnace. Unsurprisingly, I developed quite a taste for these sweet refreshing fragrant cantaloupes. Smooth, no ridges, lightly netted, blemish-free and uniform. In 2012, Alice Percy harvested 12 fruits from four plants, averaging 1.56 lb each that tested 10.9 Brix. Will grow larger in a warmer climate. Bag tag limits seed to a one-time use. Resistant to PM. AGRIOR-certified. ③

A=1g, \$2.20
B=3g, \$5.20
C=15g, \$22.50

'One-time use' refers to restrictions explained on page 3. Fedco strives for transparency about the restriction of seed freedoms.

Optimal Germination Guide

Sowing seeds at sub-optimal temperatures is the most common cause of failure. We include information in headers about ideal germination temperatures, taken and extrapolated from tables in *Knott's Handbook for Vegetable Growers* and *The New Seed-Starters Handbook* by Nancy Bubel.



HONEYDEW MELONS *C. m.*

Harvest tips: Discerning ripeness in honeydews is an art. At least two or three of the following signs should align before you cut fruit from the vine: 1) Fruits are free of fuzz or minute hairs that denote immaturity. 2) Stems dry at tendrils. 3) Fruits assume proper coloration (different for different varieties). 4) Light firm pressure applied to fruit bottom results in a slight give or rubbery rebound (pick soon). Give extends into the curve outside of the blossom scar (pick now). Do not wait for full slip—fruits will develop cracks and get over-ripe. Cure 1-4 days off the vine for best flavor, until it develops a very subtle sweet smell of perfumed honey indicative of melting juicy full-flavored flesh.

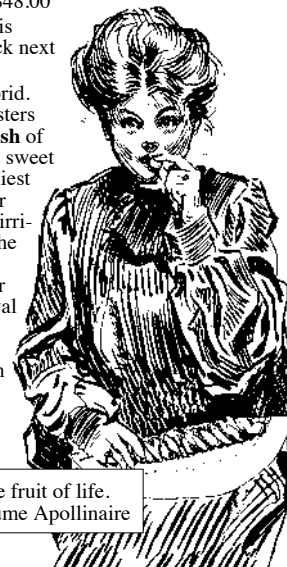
963US Uncle Sam (78 days) F-1 hybrid. Our competing politicians this year have shed their usual saccharine promises in exchange for more pungent rhetoric. But if you were looking for any moments of genuine sweetness, you scarcely found them in the debates, and would be much better advised to look to this melon instead, among the first picked most any year and perhaps the largest of the earlies. Weighing up to 4 lb, with an alluring yellow wash over the white base, perfumed extravagantly. Besides its solid musk and deep orange flesh, combines a great musk-melon texture and flavor with the sweetness of a honeydew. "Nice and creamy like sorbet," raved one of our tasters. Healthy productive disease-resistant plants. Trialer Alice Percy, whose nine fruits from four plants averaged 3.2 lb and achieved an outstanding 13.9 Brix average, used capital letters in her demand that we list it. To paraphrase Alice and that famous pointed-finger slogan, "You want Uncle Sam!" Somewhat prone to cracking. Resistant to F0-2 and PM. ④

A=1g, \$3.40 B=3g, \$9.80 C=15g, \$48.00

Orange Honey (78 days) F-1 hybrid. This Honey is still absent. We hope to get it back next year. Not available in 2017.

968WH White Honey (80 days) F-1 hybrid. "Like eating the scent of a flower." Our tasters praised the pearly, almost translucent flesh of these juicy melons as mild and attractively sweet with a slight floral undertone. Heron's earliest and most productive melon in 2010, (under row cover and with both black plastic and irrigation, his harvest began August 15) and the first among 20 varieties to ripen for Alice Percy, starting on July 29, 2012. From four plants Percy harvested 20 of the oblong/oval melons over a long period. Fruits average 2.1 lb and received a high taste rating of 3.8 out of 4. Ripe when the skin turns from white to deep ivory and emits an addictive perfume. Keeps well for at least five days off the vine. ③

A=1g, \$1.80
B=3g, \$4.80
C=15g, \$18.00



Color is the fruit of life.
—Guillaume Apollinaire

Most Years You Can Vine-Ripen Melons In Maine

Melons are a tender crop with high nitrogen requirements. They love heat, cannot stand frost, and may be damaged by night temperatures below 40°. Though they require some extra fussing, the results are sure worthwhile.

- ☛ Note days to maturity and select varieties that will ripen in your climate. Dove, Alvaro, Diplomat, Halona, Blacktail Mountain, Peace and Gold Flower are surest bets.
- ☛ Start indoors in early May (later if the spring is slow to warm) in plastic or peat pots, 2 or 3 seeds to a pot. Melons resent transplanting but will take if their roots are not disturbed.
- ☛ Prepare hills in advance with liberal amounts of well-rotted manure or compost. Don't place melons next to vigorous crawling plants like cucumbers, gourds or winter squash.
- ☛ A cold start can permanently stunt growth, so wait for a warm spell after all danger of frost to transplant, usually between May 20th and June 20th. Water heavily and, if soil is dry, place a temporary hay mulch around plants until a soaking rain comes.
- ☛ Melons are much more sensitive than squashes so use low tunnels with floating row covers that do not abrade plants. If you have sandy soil, check daily and irrigate when needed.
- ☛ Use blue, black or clear plastic mulch between plants.
- ☛ Use a foliar feeding program to speed ripening.
- ☛ Remove row covers before buds open. Replace them when you don't desire any more fruit to set.
- ☛ To reduce rot loss, rotate ripening melons occasionally. To reduce mouse damage, place ripening melons on bricks.
- ☛ Inspect your patch daily at ripening time. Check fruits for aroma and color and pull gently on those that appear to be ripe. Most muskmelons are ripe when the pressure causes them to slip from the vine. Galia types are ripe when they blush yellow well before full slip. Charentais, see above left; honeydews, above.
- ☛ Enjoy an incomparable taste treat!

MUSKMELONS *C. m.*

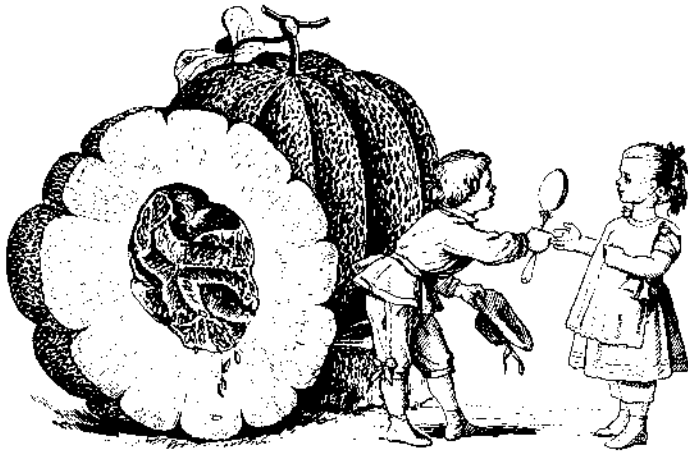
1 gram packet, about 20 seeds, sows 7 hills. Muskmelons are usually heavily netted and deeply ribbed with larger seed cavities than cantaloupes. Alice Percy opines that they are easier and require less heat to grow well than cantaloupes.

970HL Halona (74 days) F-1 Hybrid. Often the earliest muskmelon to vine-ripen for me—Aug. 11 in the very warm 2012 season, Aug. 23 in the less warm one of 2014. Dependable, early and easy to grow even for the melon-challenged, delivering unusual sweetness and muskiness, full flavor with little compromise for the earliness. Enjoys a broad range of geographic adaptation. Achieved a 3.4 taste rating out of a possible 4 in Percy's 2012 trial. The 6" oval fruits averaged 2.8 lb for Alice and 3.0 for me, boasting small seed cavities around thick sweet **orange flesh**. Alice's tested at 9.4 Brix, but it has recorded as high as 14–15 in other trials. Tolerant to some F strains, resistant to PM. ②

A=1g, \$2.40 B=3g, \$6.20 C=15g, \$28.00

972JO Jenny Lind OG (76 days) Open-pollinated. Believed to have been developed from a strain called Center originally from Armenia. Named for beloved soprano Jenny Lind (1820-1887), the Swedish Nightingale. This heirloom melon, contemporaneous with her early career, remained very popular in the New York, New Jersey, and Philadelphia area until after her death. In his 1902 catalog, famed seedsman Peter Henderson called it "the gem of the muskmelons, flavor unsurpassed by any." Jenny has recently enjoyed renewed popularity in home gardens all over the country. Despite her sparse spindly vines, she is a prolific bearer of small heavily netted 1 lb fruits that blush when ripe. Achieved a high Brix reading of 12.1 in Alice Percy's SARE-funded 2010 melon trials. Jenny may be unique among melons for having a turban on her blossom end, but tends to be too soft there for shipping. Her soft juicy **lime-green interior flesh** is so sweet and musky that it just might make you sing. IA-certified. ②

A=1/16oz, \$2.10 B=1/4oz, \$6.20 C=1/2oz, \$11.50 D=1oz, \$40.00



974MO Magnificenza OG (78 days) F-1 hybrid. We give this classy, dark-sutured and netted OG hybrid high marks for truth in advertising. At our first melon tasting of 2014, second-early Magnificenza far exceeded early standard Halona. Full-bodied caramel and cantaloupe sweetness was balanced with a bold shot of perfumed musk. Expect Brix levels of 12 to 15. Such **bright orange flesh** and smooth but solid texture is rare in short-season muskmelons. In a productive week, we picked 14 slightly oval 2–4 lb fruits from 3 hills. All blushed peachy-tan when nearing full slip, with only one flavor dud in the harvest. Very good resistance to F, PM and melon aphids (a dry climate plus). A-packet sold by count. Lacon-certified. ④

A=15 seeds, \$3.30 B=1g, \$12.50 C=3g, \$36.00

975TH Athena (80 days) F-1 hybrid. This muskmelon ripens early with nice **orange interior color**, good sweetness and not a hint of muskiness. Oval-round well-netted lightly ribbed fruits average 2 1/2–4 lb. An excellent shipper, recommended for commercial growers. 11.0 Brix at 2005 OSU trials. Second-best yielder among 10 melons in 2002 University of Maine trial. Bag tag limits seed to a one-time use. No sales to South Carolina. Tolerant to F0-2 and PM1-2. ⑤

A=1g, \$3.10 B=3g, \$9.00 C=15g, \$42.00

979HC Hannah's Choice (85 days) F-1 hybrid. Hannah is my hands-down choice in Zone 5, for ease, appearance and flavor in hybrid muskmelons. Farther north, in Zone 4, its eating quality has been more variable. Nikos, our purchaser, likens its flavor to the tropical fruit cherimoya "custard apple"—smooth, perfumy, juicy with syrupy sweetness. Other tasters found it caramelly and detected hints of vanilla and coconut flavor. The 6 1/2 x 5 1/2" large netted oval fruits average 3–5 lb (3.3 for me in 2012) with a high Brix rating of 13. As stunning on the inside as it is imposing on the outside, its rich green rind contrasts with the **deep orange flesh**. Kudos to the Cornell University breeding program for developing this gourmet melon. At 2002 trials in both Freeville and Jamesport, NY, it had 96% marketable fruits by weight, besting Delicious 51, Earliqueen, Athena and Burpee Hybrid in color, depth, Brix and overall quality. Resistant to PM, tolerant to F2, ZYMV, PRSV, WMV. ②

A=1g, \$2.50 B=3g, \$6.80 C=15g, \$33.00

981GO Golden Gopher OG (85 days) Open-pollinated. This is one gopher I won't be without. Each year it reminds me just how good a melon can be. Though, as usual, they didn't look too imposing from the outside, the two I harvested on Sept. 3 blew me away with their flavor. The 6" heavily ribbed fruits averaging 2.5 lb feature **deep orange flesh** of superb eating quality. Gopher's Honeydew parentage (that must have been one honey of a gopher in its pedigree) helps account for its high sugar content as well as its resistance to F. Developed by the University of Minnesota in the 1930s and introduced by Farmer Seed & Nursery Co. in 1939, saved from probable extinction by Glenn Drowns, discovered and multiplied by our trialer Jeanne Griffin, and popularized by Jack Kertesz at his MOFGA gardens. Called "Pop Open" melons because they sometimes split open when ripe. Very susceptible to PM. CCOF-certified. ①

A=1/16oz, \$1.60 B=1/4oz, \$3.40 C=1/2oz, \$6.00

984PO Pride of Wisconsin OG (88 days) The best full-size open-pollinated muskmelon. My first fruit, harvested vine ripe on Sept. 3, a flawless 5.56 lb specimen, was the highlight of my 2016 growing season, confirming Pride's place at the pinnacle of heirloom melons. It was melon nirvana: its superb smooth texture and juicy refreshing sweetness satisfying through and through with just the right delicate balance and no musky aftertaste. High-quality large oval **salmon-fleshed** 5–7 lb fruits have coarse netting and compact seed cavities. Edible all the way to the rind. Tends to crack at the blossom end during wet seasons so not recommended for long-distance shipping. Known as Queen of Colorado when it was introduced in 1923 by the St. Louis Seed Co. Offered in the '40s and '50s by Burpee and Eastern States Cooperative. All but disappeared from the trade after the onset of hybridization, maintained by just a handful of seed savers. MOSA-certified. ②

A=1/16oz, \$1.70 B=1/4oz, \$5.50 C=1/2oz, \$9.00 D=1oz, \$17.00

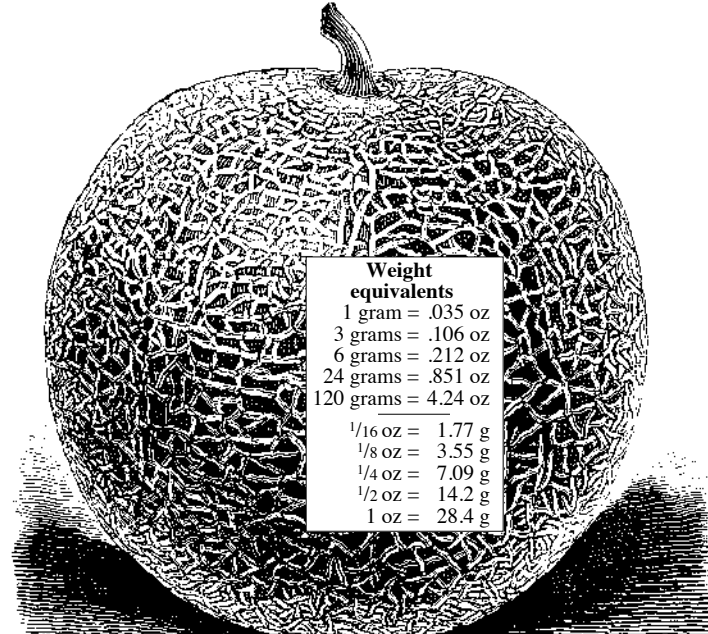
985DL Delicious 51 (88 days) Open-pollinated. Among the best widely available open-pollinated muskmelons for cold climates. Distinctively ribbed with sparse netting, its sweet 3 lb fruits turn yellow and are sometimes soft when ripe. **Dark orange interiors** with sweet juicy aromatic flesh. Received 11 Brix reading at 2005 Oregon State University trials. Developed by Dr. Henry Munger of Cornell University in 1953. Slow sales; *likely to be our last year offering*. Resists F, PM. ②

A=1/16oz, \$1.20 B=1/4oz, \$2.20 C=1/2oz, \$3.80

Montreal Market (89 days) Open-pollinated. We're still searching for a crop of this storied heirloom. When we get it, it will make my season. Not this year.

987RF Rocky Ford Green Flesh (90 days) Open-pollinated. A few years ago we lined up several green muskmelons in the same class, including Green Nutmeg, Eden's Gem, Netted Gem and Rocky Ford to go melono a melono for top honors. Rocky was the clear taste winner and replaced its grandfather Green Nutmeg. Developed by J.W. Eastwood in 1881 and named after the town that was the heart of the thriving Colorado melon industry and still is the headquarters of our favorite cucurbit supplier, Hollar. Rocky's vigorous vines produce 3–4 round heavily netted aromatic 2 lb fruits per plant. Fruits are ripe when they slip. Their fine-grained juicy **sweet green spicy flesh** has a pleasant smooth texture with a lingering muskiness. A good home-garden variety and short-distance shipper. *This is our final year to offer*; sales have plummeted. ②

A=1/16oz, \$1.30 B=1/4oz, \$2.40 C=1/2oz, \$4.00

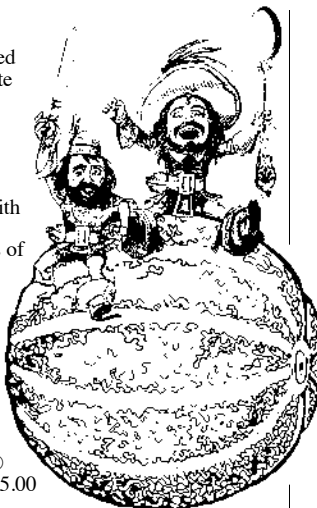


Orange color in fruits and vegetables is an indicator of the presence of carotenes. Absorption of beta-carotene (which can subsequently be converted into vitamin A) is enhanced when combined with fats, so enjoy that muskmelon with a leaf of prosciutto, and that acorn squash with a well of butter.

SENSATIONAL MELON *C. m.*

996SS Sensation (85 days) F-1 hybrid. Bested Seminis-bred French Orange at a memorable late August staff melon taste-off, motivating both Susan Kiralis and Bria Sanborn to grow melons for the first time. I was not present, but this August I joined the Sensation fan club when it became the first melon to vine-ripen for me on Aug. 27 and 31. Very sweet, but not cloying, with perhaps the highest Brix of any melon in the catalog. A bit complex, too, with haunting hints of hazelnut, amaretto and cinnamon. Very unlike French Orange, and not fitting into any of the usual classes of melons. Hollar's Sensation generates sparsely netted 2-4 lb fruits with very small seed cavities surrounded by glistening **white flesh**. As they ripen, their buff skin becomes burnished with an orange-yellow haze and they readily slip from the vine. Brought indoors, they fill the room with their enticing fragrance. Resistant to F0-2 and PM. ②

A=1g, \$2.20 B=3g, \$5.60 C=15g, \$25.00



WATERMELONS *Citrullus lanatus*

1 gram packet about 20 seeds, sows 7 hills; 1/16 oz packet, packet about 40 seeds, sows 14 hills. 1 oz—about 670 seeds.

Culture: See the sidebar on page 15. Harvesting watermelon at proper ripeness is an art. Thumping should produce a low, hollow sound. Spread thumb and forefinger and press hard on fruit. If you feel any give, watermelon is ripe. Don't heed the traditional advice to wait for the closest tendril to brown—that may be too late. Minimum germination temperature 60°, optimal range 75-95°, optimal temperature 90°. Emergence takes 12 days at 68°, 5 days at 77°, only 17% normal seedlings at 59°, 94% at 68°.

Diseases: ANTH Anthracnose F Fusarium

1003BO Blacktail Mountain OG (71 days) Open-pollinated. At age 17 cucurbit aficionado and future eminent seedsman Glenn Drowns took on his 4-year project to breed a watermelon that would withstand the rigors of his mountainous northern Idaho climate and ripen before first frost despite summer nighttime temperatures that averaged 43°. No wonder Blacktail Mountain is the earliest variety extant, among the hardiest, best adapted to a variety of conditions, and even stores after harvest as long as any. Adam Tomash and June Zellers deserve credit for popularizing this melon by sharing tastes at the Exhibition Hall at Common Ground Fair. This year they report harvesting "delicious" 17 and 19 lb melons. This is at the upper end of Blacktail's potential; most will run from 8-12 lb. Fruits are dark green, almost black, with faint stripes, **flesh orange-red** like a Sugar Baby only with a cleaner more pleasing texture, very sweet, juicy and crunchy. Drowns didn't rest on his laurels—he now maintains Sand Hill Preservation Center in Iowa, his catalog a treasure trove of rare seed and poultry varieties. MOSA-certified. ②

A=1/16oz, \$2.30 B=1/4oz, \$7.00 C=1/2oz, \$13.00 D=2oz, \$25.00

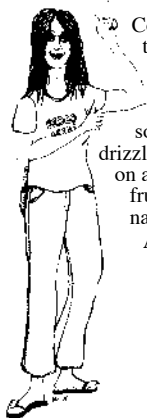
1007PY Petite Yellow (75 days) F-1 hybrid. Light green with narrow dark green stripes and little more than half the size of Peace, these 4-5 lb **yellow-fleshed** cuties make perfect one-meal melons, sweet, juicy, with flavor and texture to please and very few seeds to interfere. Tough skin that resists cracking and permits long-distance shipping. ③

A=1g, \$2.40 B=3g, \$6.00 C=15g, \$29.00

1009PC Peace (75 days) F-1 hybrid. At the end of my

Common Ground Exhibition Hall table talk one Sunday we tasted one alongside the old standard Seminis-Monsanto's Yellow Doll. Although the informal vote afterwards was split, Peace compared favorably in flavor, texture and sweetness enhanced with a floral aftertaste that added some complexity. Its **yellow flesh** has that kind of drizzle-down-your chin juiciness that thoroughly satisfies on a hot late-summer day. Good production of 8 lb avg fruits adorned with light green skin punctuated with narrow dark green stripes. ③

A=1g, \$2.30



"Love Fedco! I'm as far right in the conservative side of things as you can get!—but I can honor and respect a company that is not afraid to say what they believe—and make it very humorous."

—Matthew Aamot, Kickerville Community, Custer, WA

1013GF Gold Flower (75 days) F-1 hybrid. "These are my 5-star melons," says Jason Kafka. "The best watermelon ever in terms of reliable production and flavor," seconds John Eisenstein of Port Royal, PA. In an August 2013 taste test I loved their complex sweet butterscotchy flavor that rated a 10.4 Brix at WSU. In 2010 Heron picked his first ripe fruit on Aug. 6, a dozen days earlier than 2009.

From mainland China, these 7x14" torpedo-shaped melons carry a payload of rich sweet flavor as their interior **flesh** ripens from yellow to **orange**.

Thin dark green skins with black snakeskin markings resemble dwarfed Giant Rattlesnake melon.

Sets 4-6 fruits per plant, best picked before the tendrils totally wither, stored in a cool room for 24 hours before marketing, or 36-48 hours before eating. So early and productive, could benefit from a second succession planting. ③

A=1g, \$2.30 B=3g, \$6.00 C=15g, \$27.00

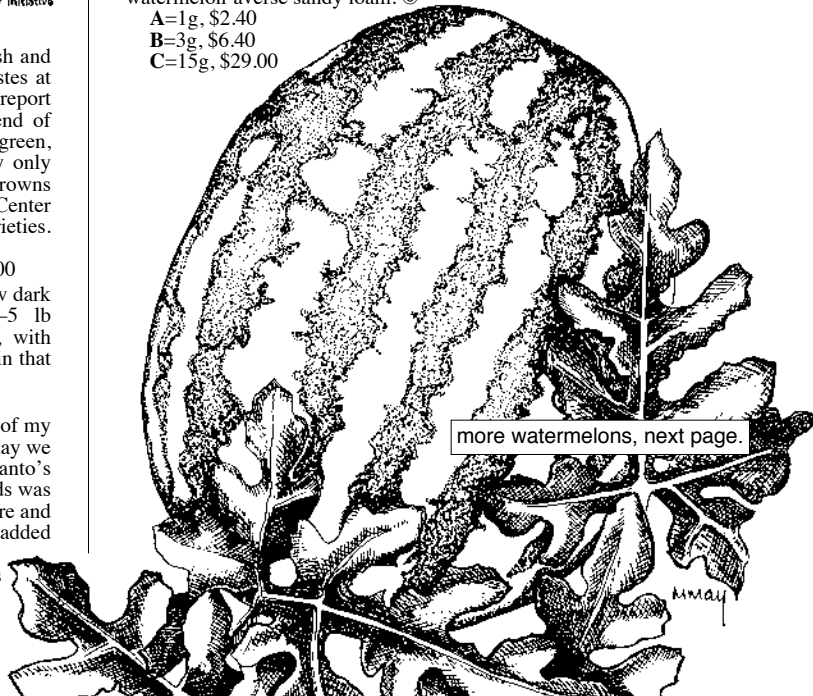
1016DN Diana (76 days) F-1 hybrid. Our 2013 summer hunt for yellow-skinned luster and excellent quality showed Diana supreme. She easily bested past-favorite Golden Crown, AAS winner Faerie and open-pollinated Golden Midget, her 10.3 Brix reading dwarfing Midget's anemic 7.4. Her 2.2 lb oval melons look as if their light skins were painted with bright yellow stripes. Her crunchy texture, sweetness and complex flavor, unmarred by the small sparse seeds, won over our warehouse staff. Showed good productivity of 6 fruits from two hills in a poor melon year. "A hit, lovely golden rinds and very sweet **bright red flesh**," sums Ohio's Janine Welsby. A-size sold by seed count. ③

A=15 seeds, \$2.20 B=1g, \$4.20 C=5g, \$15.00

Early Moonbeam (78 days) Open-pollinated. No crop this year. *Not available in 2017.*

1024OR Orange Orchid (78 days) F-1 hybrid. For a smaller more marketable alternative to **1067 Orangetlo grow Orchid**. Orchid provides reliable early production of refined 6-8 lb oblong fruits with **bright orange flesh**, crisp texture and super sweet floral flavor and not a hint of the hollow heart that can plague orange-fleshed watermelons. Medium light green rind with dark green striping. Ripened Aug. 29, 2013, for Breen from a late June 12 transplanting. Mine, started later in 2014, ripened mid-September, checking in at 8.25 lb, the best I have grown in eight years at Colrain in my watermelon-averse sandy loam. ③

A=1g, \$2.40
B=3g, \$6.40
C=15g, \$29.00



more watermelons, next page.

Basic Definitions

Open-pollinated varieties produce seed true to type if they are allowed to cross-pollinate only with other plants of the same variety. If they cross with other varieties of the same species, their seed will not be true.

Hybrid varieties are those produced from the crossing of two different inbred lines. *Seed saved from hybrid varieties will not breed true in the next generation.*

Amongst **open-pollinated** plants, **self-pollinated** (selfers) usually reproduce by using their own pollen. **Crossers** usually reproduce through the transfer of pollen from one plant to a different plant of the same species.

Botanical nomenclature goes from the general to the specific. Plants are classified into kinds by **genus**, **species** and **variety**. In *Cucurbita pepo* Sweet Dumpling, *Cucurbita* is the genus, *pepo* is the species and Sweet Dumpling is the variety.

Supplier Codes Know where your seed comes from! See page 4 for details.

- ① Small seed farmers including Fedco staff.
- ② Family-owned companies or cooperatives, domestic and foreign.
- ③ Domestic and foreign corporations not part of a larger conglomerate.
- ④ Multinationals not to our knowledge engaged in genetic engineering.
- ⑤ Multinationals who are engaged in genetic engineering.
- ⑥ Manufacturers of neonicotinoids: Bayer and Syngenta.

WATERMELONS continued

1028SO Sugar Baby OG (80 days) Open-pollinated. The first of its genre and still the standard northern icebox watermelon. Among the earliest in its class, Sugar Baby grows 8–10 lb fruits, dark green outside and **deep red** inside. Discovered in a field of picnic watermelons by M. Hardin of Geary, OK, in 1955 and introduced by the Woodside Seed Co. Still prized by those who prefer their watermelons open-pollinated and of modest size, although its flesh quality is grainier than the pricey supermarket mini-melons. OT, CCOF-certified. ③

A=1/16oz, \$1.40 B=1/4oz, \$3.20 C=1/2oz, \$5.50 D=1lb, \$60.00

1032CS Cream of Saskatchewan (80 days) Open-pollinated. “Of all the cool climate melons I’ve grown in Oregon, Maine and Wisconsin, this takes the cake, not just sweet but real character and flavor.” With his background in cucurbits, plant breeder John Navazio knows a good melon when he tastes one. He gave me my first taste many years ago and I’ve prized these sweet juicy melons with **cream-colored flesh** and abundant seeds ever since. Sweet and cooling on a hot day, these round 6–10 lb fruits are light green with dark stripes and thin brittle skin prone to split. Heirloom said to have originated in the Ukraine, brought to Saskatchewan by immigrants early in the 20th century. ③

A=1/16oz, \$1.60 B=1/4oz, \$5.00 C=1/2oz, \$9.00 D=1oz, \$16.00

1035DO Sweet Dakota Rose OG (82 days) Open-pollinated. When David Nonnenmacher of Hawley, PA, claimed his absolute beauties started at 15 lb and topped off at 26 and 28, he would perhaps forgive my skepticism. You couldn’t grow those in Maine. I thought, until Erica Rudloff of Exeter proved me wrong by exhibiting her magnificent 19 lb specimen at the 2015 Common Ground Fair. Bred by David Podoll of North Dakota to be intermediate between its parents, small early-maturing Early Canada and enormous

late-maturing Black Diamond, its skin light green with dark green stripes and its **flesh red**. A star in my 2007 trials, maturing early and producing 8–12 lb fruits, 2–3 per plant. It has few seeds and stores longer than most others. Nonnenmacher reported its outstanding juiciness and flavor “drew raves from chefs and many fellow PASA members. I think I have them convinced that modern seedless watermelons not only leave out the seeds but also the flavor.” I have no difficulty believing that. ICS-certified. ② ①

A=1/16oz, \$2.20 B=1/4oz, \$6.60 C=1/2oz, \$12.00 D=2oz, \$36.00

1039DS Dark Star (83 days) F-1 hybrid. “Much better than Jade Star or Blacktail Mountain,” says Welsby who harvested several in the 15 lb range. Our trialers agree, rating it as having larger size, darker **red flesh** and substantially better flavor than Seminis-Monsanto’s Jade Star. Dark’s high-yielding dark glossy round 10–15 lb fruits feature crisp bright juicy flesh, sweet right down to the rind, and small black unobtrusive seeds. ③

A=1g, \$1.90 B=3g, \$4.80 C=15g, \$18.00

1042QZ Quetzali (85 days) Open-pollinated. Sweet (tested 9.7% sugars at WSU trials) with some substance. Ripens 9–12 lb fruits with dark green skin spotted with lime-green sponge prints. Even more attractive on the inside where the dense **pink flesh** is almost seedless! *Caution: Requires a sharp knife, strong wrist and sure stroke to cut open its skin.* Resists ANTH1. We cannot ship to South Carolina. PVP. ⑥

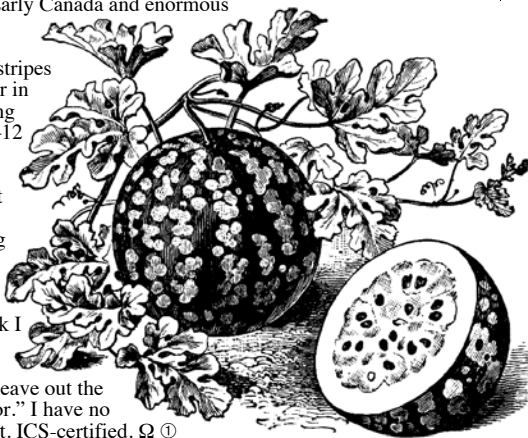
A=1/16oz, \$1.80 B=1/4oz, \$5.00 C=1/2oz, \$8.00 D=2oz, \$22.00

1046SW Sunsweet (85 days) Open-pollinated. Though it loves warm locales, Sunsweet is adapted almost anywhere. Our melon trialers in central Maine have harvested two 20 lb fruits per plant. They report it outproduces hybrid Sweet Favorite and is earlier and bigger than hybrid Sangria. We recommend this large oval watermelon for glorious **red** sweet juicy delectable treats. Skin dark green with broken light green stripes. Resistant to ANTH and F. No sales to South Carolina. PVP expired. Bag tag limits seed to a one-time use. ⑥

A=1/16oz, \$1.70 B=1/4oz, \$4.80 C=1/2oz, \$8.00 D=2oz, \$22.00

1047VR Verona (86 days) We found this rare large red oblong watermelon through Seeds of Change. Verona was introduced in 1965 in Mississippi. One of its parents is the famous Charleston Gray. Considered the earliest and best-tasting of the Black Diamond types, Verona pumps out 15–20 lb fruits with thin but tough smooth dark green skins and attractive firm **red flesh**. Sweet and tasty, the best-flavored open-pollinated watermelon I’ve ever eaten, Verona had high yields in the OSU trials and got raves at the staff taste test. Well adapted to cool climates, has produced impressively even as far north as Starks, ME. Tolerant to ANTH, F. ①

A=1/16oz, \$1.80 B=1/4oz, \$5.00 C=1/2oz, \$8.00 D=2oz, \$22.00



1052SF Sweet Favorite (86 days) F-1 hybrid. 1978 AAS from Sakata. One of the best oblong watermelons for the North. Consistently produces 10–13 lb fruits with sweet **bright red flesh**. Green skin with dark stripes. Margaret Mitchell of Southpaw Farm in Freedom, ME, grew some 20-pounders in Unity in 2013. In Ohio, Janine Welsby set a personal record with a 28.5 lb melon in 2011 and harvested over 300 lb of melons from 9 plants. “So sweet and juicy,” she raved. Brix rating of 10.5 at WSU. Bag tag limits seed to a one-time use. Tolerant to ANTH and F. ⑤

A=1g, \$2.20 B=3g, \$6.00 C=15g, \$29.00

1056SG Sangria (88 days) F-1 hybrid. The sweetest (as much as 12–14% sugars in some tests) juiciest watermelon in our trials. These elongated ovals average 10–12 lb with dark green skin broken by light green stripes. Bright refined **red flesh** will satisfy the most avid sugar seekers. Sangria, the first hybrid Allsweet type ever developed, has been a big hit on the market. Bag tag limits seed to a one-time use. Cannot ship to South Carolina. Tolerant to some races of ANTH and F. *May not ripen in northern areas with insufficient heat to grow big watermelons.* ⑤

A=1g, \$2.50 B=3g, \$6.50 C=15g, \$32.00

1063CO Crimson Sweet OG (90 days) Open-pollinated. The deeply satisfying taste of its very sweet crisp **dark red flesh** brought my 2014 CGCF Exhibition Hall talk to a fitting conclusion. Thank you, Rachel Katz. This almost-round 10x12” light green melon with bold dark green stripes has defined good watermelon eating since 1964 when it was developed by Dr. C.V. Hall of Kansas State U. Normally for growers in climates warm enough to grow a 25 lb watermelon. Tolerance to ANTH1,3 and F1,2 and a thick skin suitable for shipping make it a commercial favorite in the Middle Atlantic states and the Southeast. 9.9% Brix at WSU trials. Vigorous vines. Pam Dawling who grows seed for it says 22 melons yield 1 lb of seed. 1978 AAS winner. *Not adapted to cold northern areas.* CCOF-certified. ③

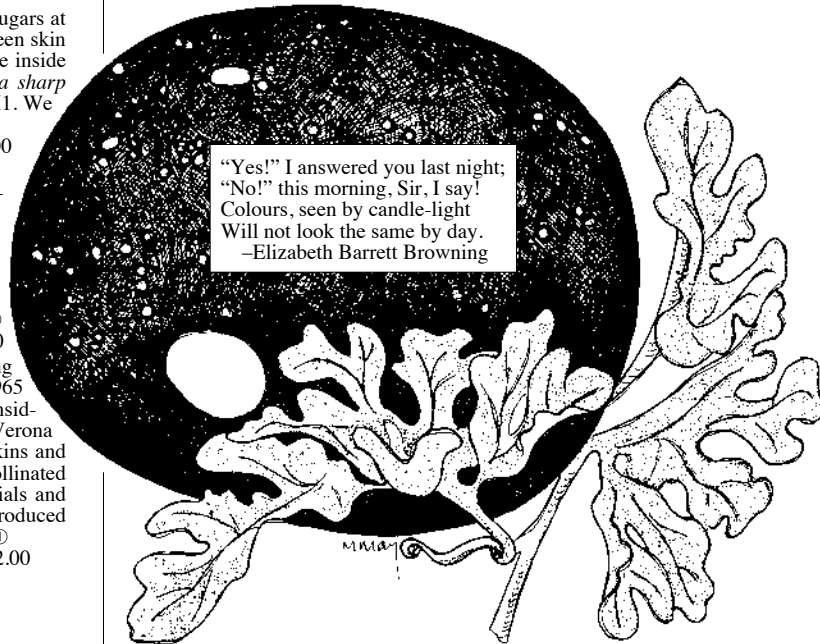
A=1/16oz, \$1.40 B=1/4oz, \$3.20 C=1/2oz, \$4.50 D=1lb, \$60.00

1067GO Orangeleg OG (90 days) Open-pollinated. The most orange of watermelons, much favored by Glenn Drowns. Like us, Drowns enjoys convincing people to try new things. Orangeleg was one of his big triumphs at farmers market. When he took them for the first time, some folks even refused his free samples. The next week people were waiting in line. Not the sweetest of our melons, however its crisp tender **bright orange flesh** is juicy and refreshing with an almost tropical flavor. Adapted to the Northeast and every bit as good as Drowns promised, the striped oblong melons average 10 and often achieve 15 lb. Let them stay in the field an extra few days when the stem is drying because they reach full sweetness only when completely ripe. Large, plentiful seeds. WSU Brix rating of 10.7%. QCS-certified. ①

A=1/16oz, \$2.10 B=1/4oz, \$6.00 C=1/2oz, \$10.00 D=1oz, \$15.00

1072MO Moon and Stars OG (100 days) Open-pollinated. Once feared extinct, this now-famous watermelon became a cause célèbre for the Seed Savers Exchange. Released by Peter Henderson & Co. as Sun, Moon and Stars in 1926, it was popular in the ‘30s before fading into obscurity for almost fifty years. Seed Savers Exchange co-founder Kent Whealy found it again in 1981 after a four-year search and his son Aaron supplied us with our original seed when he was just 12 years old. Because it needs a lot of heat to set fruit, it poses a challenge worthy of the Maine melon-grower’s mettle. Dark green skin has beautiful yellow spots which range in size from little peas (the stars) to a silver dollar or larger (the moon). Sweet (9.7% Brix) somewhat grainy **pink flesh**, and such a looker! Spotted foliage, actually a product of a virus found in the breeding lines, looks unhealthy to the uninitiated. MOSA, IA-certified. ②

A=1/16oz, \$1.70 B=1/4oz, \$5.20 C=1/2oz, \$9.50 D=2oz, \$25.00



CUCUMBERS *Cucumis sativus*

1/16 oz packet sows 11 ft; 1 oz, about 180 ft. About 35 seeds/g; 1/16 oz packet avg 65 seeds, 1,000 seeds/oz.

Culture: May be started indoors for early production, or direct-seeded. Very tender, will not survive frost. Direct seed 3" apart thinning to 1' apart in rows 4-6' apart or 6 per mound in hills 4' apart thinning to 3 best plants. Transplant 1' apart in rows 4-6' apart. Cucumbers require good fertility and regular rain or irrigation for all yields. Without adequate water, fruits will be misshapen and bitter striped cucumber beetles by handpicking early AM when the dew is sluggish, or use floating row covers, removing when cukes flower. are the vector for BW. Pick cukes frequently for best production shut down. Make sure to remove blimps to the compost pile.

Using compost in conjunction with row covers (rather than either alone) increased cucumber yields at the University of Michigan.

Parthenocarpic varieties (**1214**, **1239**, **1380**, **1392**) can set fruit without being pollinated, an advantage in cold cloudy summers. Gynoecious varieties (**1214**, **1232**, **1328**) produce almost exclusively female flowers for uniformity and high yields.

Do not sow in cold soil. Minimum germination temperature 60°; optimal range 65-95°, optimal temperature 90°. Emergence takes 13 days at 59°, 6 days at 68°, 4 days at 77°.

Days to maturity are from direct seeding, except where noted.

Diseases:

| | | | |
|------|----------------------------|------|-------------------------------|
| ALS | Alternaria Leaf Spot | PM | Powdery Mildew |
| ANTH | Anthracoze | PRSV | Papaya Ring Spot Virus |
| BW | Bacterial Wilt | R | Rust |
| CMV | Cucumber Mosaic Virus | WMV | Watermelon Mosaic Virus |
| CVYV | Cucumber Vein Yellow Virus | ZYMV | Zucchini Yellows Mosaic Virus |
| DM | Downy Mildew | | |

PICKLING

1214RN Ronda (50 days) F-1 hybrid. In our 2015 pickling cuke trial.

Ronda caught our fancy. From 3 short-vined plants we harvested upwards of 130 handsome dark green gherkins over 4 weeks. Gynoecious, parthenocarpic and early, Ronda also sported lasting foliage health in a bad PM season. For those perfect tiny sour pickles with fine crunchy texture, we recommend picking fruits at 3" long or smaller. Not at all bitter, Ronda is sweet and buttery when raw, large or small.

"The Ronda cucumber seeds were a bit pricey but they all grew and you forgive them their cost when you pick them—three times as prolific as any others we planted and most excellent flavor," testify Nancy and Bruce Nickel of Mountain Home, AR. Intermediate resistance to CVYV, CMV, PM. 1g has ~40 seed s.

A- and B-size packets sold by seed count. ④
 A=5 seeds, \$1.70 B=10 sds, \$3.20
 C=1g, \$10.50 D=2.5g, \$22.00

1218SS Sassy (52 days) F-1 hybrid.

Although rated mid-late season by its breeder, this cuke is sassy enough to produce like crazy in the early slot. Though some picklers tease you with a handful at first picking, just three Sassy plants yielded more than 25 flawless very dark green 4" fruits during their first week of harvest. Vigorous long vines, dark green healthy foliage and predominately female flowers continue this bounty, barely slowing after 4 more harvest weeks. Uniform long narrow pickles are sweet, crisp and thin skinned. Perfect for whole dills, but versatile for any favorite pickle recipe. We're overstocked; prices reduced 10-20%. High resistance to scab and ANTH. Intermediate resistance to CMV, ALS, PM. ⑤

A=1/16oz, \$1.40 B=1/4oz, \$2.60 C=1/2oz, \$4.80
 D=1oz, \$8.00 E=4oz, \$26.00 K=1lb, \$98.00

1226NL National (52 days) Open-pollinated. Introduced in 1929, the result of a 5-year collaboration between the National Pickle Packers Association and the Michigan Agricultural Experiment Station. Suitable for both small pickles and dills. Not quite as early as Northern Pickler, but tending to hold quality over a longer season, the firm black-spined dark green fruits are usually quite sweet, rarely bitter. Plants are vigorous dependable producers. Resists CMV and scab. ②

A=1/16oz, \$1.00 B=1/4oz, \$1.60 C=1/2oz, \$2.80
 D=1oz, \$4.50 E=4oz, \$11.00 K=1lb, \$29.00

1232CS Calypso (52 days) Heavy-yielding gynoecious hybrid developed by North Carolina State. Fruits medium-dark green with white spines. In a trial of 7 pickling varieties at Highmoor Farm, Calypso showed prolific fruit set and had the highest early yield. Tolerant to ANTH, ALS, CMV, DM, PM, resistant to scab. ②

A=1/16oz, \$1.10 B=1/4oz, \$2.00 C=1/2oz, \$3.20
 D=1oz, \$5.50 E=4oz, \$15.00 K=1lb, \$40.00



1234CC Cross Country (57 days) F-1 hybrid. Named for its widespread adaptability, Cross Country goes the distance. The best pickler in our trials, it bears abundant blocky straight dark green white-spined fruit of uniformly good quality with very small seed cavities. Our trialer described its sweet taste as "crunchy and cool." Had good yields (5.5 lb per plant), appearance, and long uniform fruit in Highmoor Farm trial. Has been highly rated in brine tests. Resistant to scab, but susceptible in our trial to BW. Resistant to ANTH, ALS, PM and DM. ⑤

A=1/16oz, \$1.60 B=1/4oz, \$3.00 C=1/2oz, \$5.50 D=1oz, \$10.50
 E=4oz, \$32.00 K=1lb, \$105.00

1239LO Little Leaf H-19 OG (60 days) An open-pollinated white-spined parthenocarpic cucumber, Little Leaf sets fruit without pollination, so may be left under row cover the entire season. Compact vines with smaller-than-normal leaves save space and leave the mature cucumbers much more visible. Despite the plants' emaciated appearance, they produce a huge number of cukes, even under stress. The blocky fruits are a little smaller than what we were used to, but they serve a dual purpose, pickling well while also providing good fresh eating. Has become a big customer favorite and rated as Donna Dyrek's top choice among the 21 picklers in her Zone 4 2015 trial. Bred in the Ozarks at the University of Arkansas and released in 1991. Resistant to ANTH, ALS, DM, CMV, PM, scab. PVP has expired. CCOF-certified. ①

A=1/16oz, \$1.60 B=1/4oz, \$3.60 C=1/2oz, \$6.50 D=1oz, \$10.00
 E=4oz, \$25.00

1243MG Mexican Sour Gherkin (65 days) *Melothria scabra* Open-pollinated. Also known as Cucamelon or *Sandía de ratón* ('Mouse Watermelon' in Spanish), and Preserving Cucumber in France. Native to Mexico and Central America and a staple in diets there since pre-Columbian times. We love the unusual, so when we saw these darlings on exhibit at Common Ground Fair in 2004, we found them irresistible. So did the judges who gave them a coveted Judges' Award. Janet Winslow brought them back to the Hall in 2013 and calls them a "gateway" crop, meaning they inspire fairgoers to explore the diversity of available food crops. Wimpy seedlings grow into rampant yet delicate scrambling vines covered with dozens of 1" green and white fruit that look like miniature watermelons but taste more like cucumbers, with a crunchy texture and a slight sour zing as if they already had been pickled. Botanically, they are neither cucumber nor watermelon and won't cross with either. They don't bruise and they keep for a long time. Try them in stir fries, pickle them as gherkins, or add to salsas. Also popular among trendy bartenders. Easy to grow, and fun! Slightly more tolerant of cold than cukes, and more drought-resistant. Benefits from a fence or trellis so vines can climb 10'. About 350 seeds/g. ②

A=0.2g, \$2.40 B=1g, \$5.00

SLICING

1302MN Ministro (49 days) F-1 hybrid. This sprinter is the Usain Bolt of the cucumber world and was the runaway best seller among new items in our 2013 catalog. Ripened for Donna Dyrek on July 15, 2012, a full 20 days ahead of Marketmore, even though she didn't set her transplants out until June 22. Vigorous plants with excellent cover bear high-quality cylindrical 8-9" monoecious fruits of the American slicer type, shiny and thin-skinned. Snappy and crispy, sweet and crunchy. They were still loaded with fruit and continuing to flower right into October. "I could go out and pick another mess now," reported Dyrek on Oct. 11. Bag tag limits seed to a one-time use. Resistant to PRSV, WMV, ZYMV. ⑤



A=0.5g, \$2.20 B=1g, \$3.80 C=4g, \$10.50
 D=14g, \$30.00 E=28g, \$52.00

1308PO Poona Kheera OG (60 days) Open-pollinated. Bored with American cucumbers and ready for something different? This emigré from India undergoes quite a metamorphosis, 4-5" fruits turning from cream color to golden yellow to russet brown as they mature. At each stage they remain extremely crisp, sweet, juicy, refreshing and bitter-free. Jim Stockwell relates that his Asheville, NC, chefs ask for them by name. "Sells out no matter how many I bring to farmers market if I allow customers a taste test." Used in stir-fries, long-marinating dishes, pickles and chutneys. They keep their crisp texture and absorb sauce flavors in Thai and Indian food. Vines vigorous, disease resistant and heavy yielding. OT, VT-certified. ①

A=1/16oz, \$1.70 B=1/4oz, \$3.20 C=1/2oz, \$6.00 D=1oz, \$11.50

Why don't you folks offer _____? (please fill in the blank)
 Can't find your favorite variety? Please send us your suggestions.
 If possible, please identify your past source for the varieties.



CUCUMBERS continued

1311BO Boothby's Blonde OG (63 days) Open-pollinated. Maine, famous for Moody's Diner and Moxie, also boasts a less well-known heirloom cucumber, maintained for five generations by the Boothby family of Livermore. Boothby's short plump oval fruits average 3-4" and become yellow as they mature. Creamy exteriors with contrasting black spines and juicy refreshing interiors. Larger seed cavities than most cukes, but the seeds actually add to the mild sweet flavor that makes the fruits so good for eating out of hand. Boothby's usually lacks the bitter aftertaste so common in many of the other white cukes we've trialed. Has the "cool" texture uncommon in American cukes. Boothby's goodwill ambassador Will Bonsall passed it on both to Pinetree Seeds and to us. MT, CCOF-certified. ①

A=0.5g, \$1.10 B=2g, \$2.20 C=4g, \$3.20 D=16g, \$7.50
E=64g, \$14.00

Marketmore 76 (63 days) Dr. Henry Munger's classic open-pollinated cucumber for the ages, long the leading slicing variety in the Northeast, still sells nearly 5,000 packets per year for us though it is offered by just about every seed purveyor on the planet. Dark green 8-8½" fruits show good uniformity. Vines vigorous throughout season. Tolerant to CMV, DM, PM, resistant to scab.

1312MM Marketmore 76 ②

A=1/16oz, \$1.00 B=1/4oz, \$1.60
C=1/2oz, \$2.80 D=1oz, \$4.50
E=4oz, \$10.00 K=1lb, \$29.00

1313MO Marketmore 76 OG
CCOF-certified. ③

A=1/16oz, \$1.30 B=1/4oz, \$2.20
C=1/2oz, \$3.80 D=1oz, \$5.60
E=4oz, \$14.00 K=1lb, \$42.00

1318SO Silver Slicer OG (64 days)

Open-pollinated. Psst! We'd love to pass on a secret known to few: this superior Cornell University slicer may be the best eating cucumber of them all. Megan Rulli of Piney Mountain Orchard in Gardners, PA, calls SS "the cucumber of my dreams." Incorporates all of the good features of **1311 Boothby's Blonde** in a better package. Longer (7-8") and slimmer (fairly narrow 1" core) than Boothby's with a creamy-white tender skin. Heavy set of buttery crunchy crisp fruits, neither watery nor ever bitter. Resists PM and keeps going till September. Seed for this variety is sold under a license and a portion of the proceeds goes to support public vegetable breeding at Cornell. The license restricts seed freedoms 2 and 4. VT-certified. ①

A=1/16oz, \$1.80 B=1/4oz, \$5.00 C=1/2oz, \$8.00 D=1oz, \$14.00
E=4oz, \$28.00 K=1lb, \$100.00

1328GL General Lee (66 days) F-1 hybrid. "General Lee does amazingly well here. Guess he's glad to be back home. Yields longer than any other through heat, humidity, drought and bugs," relates Linda Paul of Barhamsville, VA. Also a pretty fair performer up north, this gynocarpic General continues to conquer some Yankee gardeners and farmers. High yields of uniform straight dark-green white-spined 8-8½" slicers don't peter out in the halcyon days of summer. Doesn't develop yellow "bellies" and retains that good Sweet Salad flavor. From a May 13 direct seeding, my 2012 harvest began July 8 and continued into late August. Despite persistent drought, half the fruits were still of marketable quality in mid-August. Tolerant to scab, CMV, PM and DM. ⑤

A=1/16oz, \$2.00 B=1/4oz, \$4.50 C=1/2oz, \$8.00 D=1oz, \$13.50
E=4oz, \$50.00 K=1lb, \$185.00

1372LM Lemon (68 days) Open-pollinated. Would you buy a lemon from Fedco? A lot of people will buy this lemon beloved by salad chefs and backyard gardeners alike for its heavy yields of rounded 3" fruits shaped somewhat like lemons. Color evolves from pale greenish yellow (immature though preferred by some customers as most tender and least seedy) to lemon yellow (best eating stage for most) to golden yellow (full maturity and seed production). Very crisp and sweet; never gets bitter and one of the best for eating right out of the garden. Samuel Wilson of Mechanicsville, PA, introduced this lemon in his 1894 catalog, some years before Detroit started turning out some lemons you wouldn't buy. Tolerates R and resists drought. ②

A=1/16oz, \$1.00 B=1/4oz, \$1.80 C=1/2oz, \$2.80 D=1oz, \$4.50
E=4oz, \$11.00 K=1lb, \$32.00

1375RO Richmond Green Apple OG (70 days) Open-pollinated. What's refreshing and juicy, lemon-shaped and comes from Australia? This hard-to-find heirloom cucumber. I feasted on them in my 2004 trials and

have grown them often since. Beautiful lime green, they get slightly larger than lemons with sweet mild flavor that really satisfies on a hot summer day. OT-certified. ①

A=1/16oz, \$1.80 B=1/4oz, \$4.00
C=1/2oz, \$7.00 D=1oz, \$11.50



BEIT-ALPHA TYPE

Descended from a vegetable that grows wild in the dry climate of the Middle East, the beit alpha was developed by breeders on an Israeli kibbutz. These small sweet-fleshed cucumbers were originally popular in the Mediterranean, spread to Europe and thence to the States. They don't dehydrate easily, their thin skins don't require peeling, they are almost completely burpless and have a long shelf life.

1380SO Socrates OG (52 days) F-1 hybrid. Fedco staffer Clayton Carter makes this Beit-Alpha trellis cuke his top choice for protected culture. Trained to a manageable 6' height, Socrates lacks for nothing in vigor or foliage health. The strong thick stems steadily set straight 7-8" fruit. Smooth thin dark green skin gives way to crunchy sweet seedless pale green flesh. With its tolerance of cool temps and its disease-resistance, Socrates makes a "most excellent" variety to return your high-tunnel investment. Parthenocarpic. Note: Seeds will result if insect pollination is allowed. Resistant to scab. Intermediate resistance to PM. Lacon-certified. ④

A=0.4g, \$4.50 B=0.8g, \$8.60 C=1.6g, \$17.00 D=8g, \$82.00
E=16g, \$160.00

1382SZ Super Zagross (54 days) Open-pollinated. Green smooth-skinned fruits refreshingly cool, enjoyably mild and almost completely free of the bitterness quite common in American slicers. Zagross does not bear as heavy early sets as the hybrid Amira, but it sustains its cropping power longer, so the cukes will keep coming as long as you keep harvesting. Elaine Carlson makes succession plantings two weeks apart for "months of good eating. So thin-skinned, juicy and refreshing." ②

A=1/16oz, \$1.50 B=1/4oz, \$2.60 C=1/2oz, \$4.80
D=1oz, \$8.40 E=4oz, \$25.00 K=1lb, \$75.00

LONG-FRUITED TYPES

Asian cukes are more resistant to CMV than other types.

For really straight fruit, consider trellising your cukes. Adam Tomash and June Zellers grow theirs on a 5' arch made from cattle panel, a welded wire material with big holes. They explain this trellis system in an article ("In Search of the Perfect Tomato Trellis") that appeared in the MOF&G winter 2008-9 edition.

1388PS Painted Serpent (55 days from transplant) *C. melo* var. *flexuosus* Open-pollinated. Bite into the snake that doesn't bite back. Also known as Armenian Cucumber or Snake Melon, native to Armenia and brought to Italy in the 15th century. William Woys Weaver says, "This is one of the oldest of our heirlooms, yet one of the most neglected by our gardeners," oft exhibited but seldom eaten. Yet its flavor surpasses that of cucumbers, excelling in salads and stir-fries without bitterness or burps. Slender slightly fuzzy flexuous fruits delicately coil like a serpent with alternate light and dark green stripes. Culture like the melon it is, starting indoors in individual pots and transplanting into a low tunnel. Will grow up to 30" but best eaten at 8-18". Straighter if trellised. Never grow well on my central Maine clay, but a prolific producer on my sandy Colrain, MA, soil, beginning as early as July 26 one warm, dry season. ③

A=1/16oz, \$1.30 B=1/4oz, \$2.20 C=1/2oz, \$3.80
D=1oz, \$7.00 E=4oz, \$15.00 K=1lb, \$50.00

1392TE Telegraph Improved European (60 days) Open-pollinated. "A consistent performer in our greenhouse," related Michael Goldman of Florence, MA. Also suitable for growing outdoors, this European cucumber has long (10-14") slim smooth-skinned fruits of very delicate mild flavor, seldom bitter and containing few seeds. The folks at Baker Creek date this heirloom back to 1897. Stake vines for better-quality straight cukes. Parthenocarpic, CCOF-certified. ② **BACK!**

A=1g, \$1.90 B=4g, \$7.00

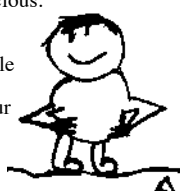
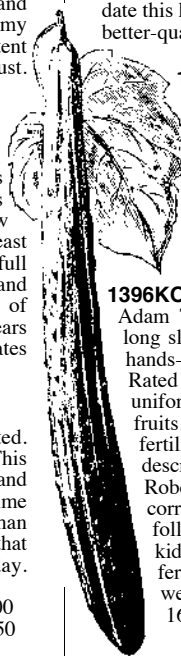
1394SO Suhyo Long OG (61 days) Open-pollinated. Known for its sweet mild burpless flavor, this Asian cucumber grows up to 15" long with a curly shape if unsupported. For straighter fruit that packs better Jason Kafka grows these in his greenhouse in vertical hedges, stretching Trellis Plus netting (8772 in the OGS section) between conduits. According to Tom Vigue these make good dense pickling cukes if picked young enough. Sets well in heat. Resists PM, QCS, BAYSTATE-certified. ①

A=1g, \$1.60 B=4g, \$3.50 C=16g, \$8.80
D=48g, \$22.00

1396KO Shintokiwa OG/BD (62 days) Open-pollinated. Tom Vigue and Adam Tomash both highly recommend this productive smooth-skinned long slender cucumber that first surfaced in the Turtle Tree catalog. The hands-down winner at Tomash's trial, combining looks, health and flavor. Rated by Tomash as superior to the Suhyo cultivars with better uniformity, fewer defective bottoms and more resistance to BW. The fruits, averaging 9-10" and growing up to an edible size of 1' in good fertility, are sweet, crisp and juicy without bitterness. One trial taster described their flavor as "flowery, buttery and delicious."

Robert Wasserman of Wasserman family farm in corrales, NM, reports that they have a faithful following at the growers' market—even among little kids. Editor Elisabeth Benjamin's favorite for fermented pickles. Seed in short supply, consult our website for possible availability and price for 16g size C. Stellar NOP-certified. ①

A=1g, \$1.70 B=4g, \$5.00



SUMMER SQUASH *Cucurbita pepo*

Culture: Tender, will not survive frost. Sow in hills 4' apart, 5 seeds/hill. Thin to 2-3 best plants. Floating row covers, especially when used in low tunnels, provide extra heat and can hasten maturity by 1 to 2 weeks. Male blossoms typically precede females by about a week. Females have a bulge at the base of the blossom, an early stage of the fruit forming. In early summer, a combination of cool, cloudy weather and declining bee populations may result in poor pollination causing low yields. mites and colony collapse disorder have wiped out a high percentage of wild and domesticated honeybee colonies in the last 20 years, creating a real crisis for cucurbit growers. don't leave oversized squash on the vines. it shuts down production. make succession plantings to ensure harvest through the entire frost-free season, insurance against powdery mildew and other diseases of tiring old plants. minimum germination temperature 60°, optimal temperature range 70-90°, optimal temperature 85°.

days to maturity are from direct seeding.

taste: squash blossoms are a delicacy. harvest male blossoms when fully open for salads or stuffing. unless you want to stuff them, for best flavor pick squash when they are small.

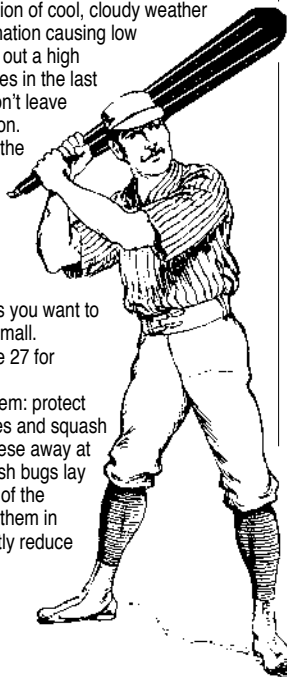
pests & diseases: see the sidebars here and on page 27 for additional information.

to combat squash bugs without using pyrethrum or neem: protect young plants with row covers. striped cucumber beetles and squash bugs overwinter in squash residues so burn or haul these away at season's end rather than cold composting them. squash bugs lay their brown or brick-red egg clusters on the underside of the foliage, often next to the central vein. by hand-picking them in June and July, i mitigate an endemic problem and greatly reduce squash bug damage.

PM Powdery Mildew

WMV Watermelon Mosaic Virus

ZYMV Zucchini Yellows Mosaic Virus



ZUCCHINI

160-240 seeds/oz. 1/8 oz packet sows 4-6 hills; 1 oz, 40 hills. The term *zucchini*, which means 'little squash' in Italian, was not in common parlance until the late '30s. Squash expert Amy Goldman, author of *The Compleat Squash*, traces the first true zucchini to 1901 in Milan, but vegetable marrows and cocozelles, now called zucchini, are considerably older.

1402EB Eight Ball (40 days) F-1 hybrid. Noted squash seed grower Hollar did not have to hire Minnesota Fats as their publicity director to win an AAS for Eight Ball in 1999 and we're not hustling when we assert that Eight Ball deserved the award. Eight Ball has the sweetness and squash flavor previously missing from round zucchini. The plant's open bush habit should please both home and market growers. Its earliness might well give you your first ripe squash of the season. They'll keep coming, too, till they run your table! Yes, the attractive shiny speckled dark fruits are mature when they're just a little bigger than pool balls. One customer reports oversized Eight Balls will turn orange and make great fall decorations. ©

A=1/8oz, \$2.20 B=1/4oz, \$4.20 C=1/2oz, \$7.80 D=1oz, \$14.50
E=4oz, \$50.00 K=1lb, \$190.00

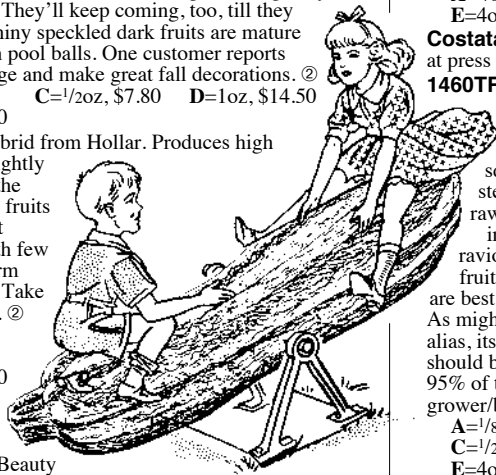
1404JP Jackpot (42 days) F-1 hybrid from Hollar. Produces high yields of long medium-dark green lightly speckled fruits slightly ridged near the stem. In my first trial I harvested 59 fruits from just two hills. Open plant habit features a long single-stem bush with few spines. Continuous production of firm 6 1/2" zukes, tender, mild and sweet. Take these to market and win the jackpot. ©

A=1/8oz, \$1.80 B=1/4oz, \$3.20
C=1/2oz, \$5.50 D=1oz, \$9.50
E=4oz, \$28.00 K=1lb, \$106.00

1406SB Spineless Beauty

(46 days) F-1 hybrid. In zucchini, unlike in politics, spinelessness is a virtue; when you harvest Spineless Beauty your hands will never itch. (And your palms won't itch either, unless you go into politics!) The 7 1/2x1 1/2" medium-dark green fruits of the Ambassador type are borne on open plants with spineless petioles. A standout in Sam Birch's and Highmoor Farm's summer squash trials. Bag tag limits seed to a one-time use. ©

A=1/8oz, \$1.90
B=1/4oz, \$3.60
C=1/2oz, \$6.60
D=1oz, \$12.00
E=4oz, \$40.00
K=1lb, \$140.00



1407GA Golden Arrow (46 days) F-1 hybrid. Our choice for a vigorous hybrid golden zucchini with no bitterness. These bright fruits started coming on June 27 from a May 13 sowing in 2012 and continued until a fierce army of squash bugs invaded in early August. Two plants generated 21 fruits in all. We loved Arrow's slender shape and vibrant color and the way its open plant habit made harvesting easy. Never quivering, this Arrow flies straight to the gold. ©

A=1/16oz, \$2.90 B=1/8oz, \$5.60
C=1/4oz, \$11.00 D=1oz, \$21.00

1409RV Raven (48 days) F-1

hybrid. Our best-selling zucchini for market growers.

Raven sets the standard for dark zucchini. Its smooth-skinned glossy shapely greeny-black fruits make it the "prettiest of all zucchini, plant and fruit alike" to Anne

Elder. Its merits go more than skin deep as research by Dr. John Navazio showed that Raven's dark pigmentation contains more of the antioxidant lutein than lighter-skinned varieties. Relatively early concentrated production so market growers can make succession plantings. Performs well even in poor squash years. Bag tag limits seed to a one-time use. ©

A=1/8oz, \$1.80 B=1/4oz, \$2.80 C=1/2oz, \$5.20 D=1oz, \$10.00
E=4oz, \$36.00 K=1lb, \$140.00

1411BZ Black Zucchini (50 days) Open-pollinated. A misnomer as Black Zucchini is not as dark as Raven but instead dark green. Perfect for home gardeners who are looking for an open-pollinated zucchini with superior flavor, but who don't require record-breaking yields. Also popular among some commercial growers. Brought from California in 1931 by the Jerome B. Rice Seed Co. of Cambridge, NY. Fruits of greenish-white firm tender flesh with small seed cavities are best picked around 6". The flavor was well above average in our taste tests. Open plant habit makes picking relatively easy. ©

A=1/8oz, 90¢ B=1/4oz, \$1.60 C=1/2oz, \$2.60 D=1oz, \$4.00
E=4oz, \$6.00 K=1lb, \$17.00

1424SE Sebring (50 days) F-1 hybrid. A beautiful golden straight-sided cylindrical zucchini, relatively free of green tips, with open plant habit for easy harvesting. Averaged 17 baby fruits per plant or 6 mature fruits. Rated "very early" in the 2006 OSU trial. Showed some drought stress in early July 2012, producing misshapen fruits, but bounced back nicely. Resistant to PM. ©

A=1/8oz, \$2.20 B=1/4oz, \$4.30 C=1/2oz, \$8.40 D=1oz, \$15.00
E=4oz, \$55.00 K=1lb, \$195.00

1434CZ Cocozelle (53 days) Open-pollinated. Rich-flavored zucchini ribbed with light green stripes. This Italian heirloom was called *Cocozella di Napoli* in the 1800s. The term 'zucchini' was first published in the USA by California seed house Aggeler & Musser in 1921. ©

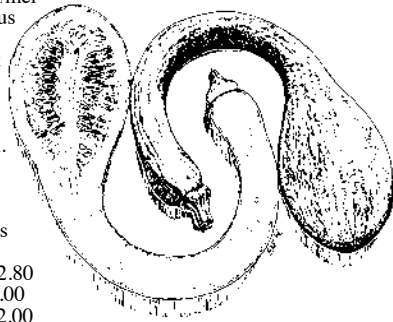
A=1/8oz, 90¢ B=1/4oz, \$1.70 C=1/2oz, \$3.00 D=1oz, \$4.50
E=4oz, \$6.50 K=1lb, \$18.00

Costata Romanesca (60 days) Open-pollinated. Seed supplies uncertain at press time. Please consult our website for availability.

1460TR Tromboncino (60 days summer squash, 90 days winter squash) Open-pollinated. Also known as zucchini rampicante although, unlike other zucchini, a *moschata*. Tender, mild, sweet and nutty

when harvested as summer squash at 8-12". Delicious steamed, grilled or sliced raw in salad. Italians use it in gnocchi and to stuff ravioli. When the green-tan fruits grow very long, they are best baked as winter squash. As might be inferred from its alias, its vines are rampant and should be trellised. "Out-tastes 95% of the Zuke pack," declares grower/breeder Relentless. ©

A=1/8oz, \$1.50 B=1/4oz, \$2.80
C=1/2oz, \$5.00 D=1oz, \$8.00
E=4oz, \$24.00 K=1lb, \$82.00



Pest: Striped Cucumber Beetle

Cultural controls: use tolerant or resistant varieties, use transplants instead of direct seeding, rotate crops, till under crop debris soon after harvest, use floating row covers (8814) until flowers appear, use plastic mulch (8808), perimeter trap cropping (1411 Black Zucchini and 1655 Blue Hubbard make particularly good trap crops), use yellow sticky strips (8583), hand-pick early morning when beetles are very sluggish. Materials: Surround (8652), AzaMax (8660), Pyrethrum (8688 PyGanic).

Pest: Squash Bug

Cultural controls: rotation, till in cucurbit debris before winter and plant a cover crop, boards on soil surface near squash will attract bugs overnight which can be killed, destroy egg clusters on undersides of leaves, avoid mulching. Materials: Pyrethrum (8688) on young nymphs, neem (see 8592 Neem Oil and 8660 AzaMax.)

Pest: Squash Vine Borer

Cultural controls: butternut squash is resistant, *maximas* & *pepos* susceptible; rotation, plow in squash vine debris soon after harvest, use floating row covers (8814), watch for wilting plant parts and destroy borer within. Materials: Monitor for adult moths and apply spinosad (8685) during moth flight and up to one week later. Later applications are ineffective.

LEBANESE

200–320 seeds/oz. 1/8 oz packet sows 5–8 hills; 1 oz, 40–60 hills. Also called Mid-East or Cousa squashes, Lebanese types typically have white-mottled pale green skin and a blocky bulbous shape.

1484AX Alexandria (47 days) F-1 hybrid. Summer squash in June from direct-seeding? You bet! In 2015 my first ripe fruit from Alexandria came June 27. By July 11 the three plants had already cranked out eleven and when they finally finished in mid-September they had doubled the production of the next best among my eight varieties.

This highly marketable Cousa was the first to produce and the last to succumb in my PM-riddled 2014 and 2015 summer-squash trials. Strong plants with semi-erect single stems and an open habit for easy picking. My partner Eli, a critical evaluator of summer-squash flavor, loved them. Resists ZYMV, WMV and tolerates PM. ②

A=1/8oz, \$2.40 B=1/4oz, \$4.40 C=1/2oz, \$8.00 D=1oz, \$14.00
E=4oz, \$50.00 K=1lb, \$190.00

1488WB White Bush (50 days) Open-pollinated. These robust crawly plants are amazing croppers; yielded 15 fruits per plant in our trial plot. Pick fruits when they are young and tender or allow them to fatten for stuffing. Marketers note: must be handled gently so not to scratch. Relentless says better than a hybrid in many ways: “Sublime taste and makes better pickled chips than cucumbers.” “Firm and flavorful, not at all watery, scrumptious brushed with olive oil and grilled, then showered with minced basil and mint,” advises Elaine Carlson. ②

A=1/8oz, 90¢ B=1/4oz, \$1.70 C=1/2oz, \$3.00
D=1oz, \$4.50 E=4oz, \$8.00 K=1lb, \$18.00

YELLOW

200–320 seeds/oz. 1/8 oz packet sows 5–8 hills; 1 oz, 40–60 hills.

1504SF Saffron (42 days) Open-pollinated. We’re just mad about Saffron, a 4–6" yellow semi-crookneck that excelled in our trials and has developed a strong following among our customers. Less warty than straightneck squashes. Small single-stem bush with open structure but very large leaves gives good sunburn protection. They call it mellow yellow. ②

A=1/8oz, \$1.00 B=1/4oz, \$1.80 C=1/2oz, \$3.40 D=1oz, \$6.50
E=4oz, \$12.50 K=1lb, \$29.00

1507GT Gentry (43 days) F-1 hybrid. Despite its name, this crookneck is not just for the 1%. Though one upscale squash with its butter-yellow smooth skin, mild sweet delicious flavor, and impressive production even under stress, our price keeps it attainable for the 99%. Best harvested at 5–6". Our trialer called it “the perfect crookneck.” Now if only we could rein in the corporate crooknecks, we might all realistically aspire to be gentry! Bag tag limits seed to a one-time use. ⑥

A=1/8oz, \$2.00 B=1/4oz, \$3.60 C=1/2oz, \$6.50 D=1oz, \$12.50
E=4oz, \$44.00 K=1lb, \$155.00

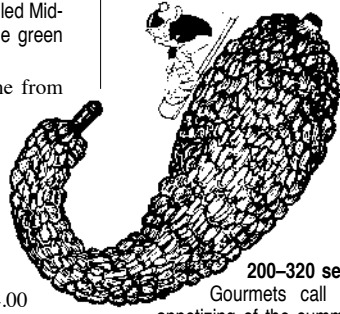
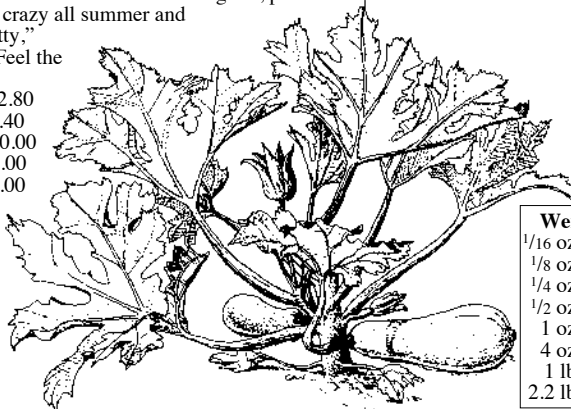
1512SP Slick Pik YS 26™ (48 days) F-1 hybrid. What is slick about this pick is its extreme earliness and its consistent prolific production of slim glossy-skinned 8" fruits. These have minimal bulges or swellings for their seed cavities, long straight necks and excellent flavor. Very attractive and spineless, too. They have resisted heavy cucumber and squash beetle pressure at Roberta’s farm for many years and have always been the last to succumb to wilt. Another fine breeding achievement by Brent Loy at the University of New Hampshire. ②

A=1/16oz, \$2.40 B=1/8oz, \$4.50 C=1/2oz, \$12.50 D=1oz, \$21.00
E=4oz, \$72.00

Lemon OG (50 days) Open-pollinated. We have dropped this variety. No longer available.

1526ZP Zephyr (54 days) F-1 hybrid. Its unique contrasting color pattern is as refreshing as the breeze its name evokes. Looks like a yellow squash dipped in pale green at the blossom end. Sometimes earliest fruits are yellow with green stripes. A straightneck type often with a slight curve at its neck—the product of the yellow crookneck in its breeding. Also has yellow acorn and delicate squash in its background. Large plants with open habit are easy to harvest. Deborah Jaffe of Long Days Farm in S. Cambridge, NY, likes to sell baby Zephyrs by the pint. We prefer them at the 4–6" stage. Excellent grilled. Customers, particularly market growers, asked us for it ever since Johnny’s introduced it in 1999. “Tastes great, produces #1 squash like crazy all summer and looks very pretty,” summed one. Feel the breeze! ③

A=1/16oz, \$2.80
B=1/8oz, \$5.40
C=1/4oz, \$10.00
D=1oz, \$22.00
E=4oz, \$85.00



1539CO Early Summer Yellow Crookneck OG (58 days) Open-pollinated. Deep yellow warted fruits with bulbous shape and narrow curved necks. Best when picked young. Probably grown by Native Americans. Dates to 1700 and a standard in early 19th century American seed catalogs. The 1888 Burpee catalog rather uncomplimentarily described it as “covered with warty excrescences” but called the flavor “excellent.” Burpee charged a nickel for a packet, a dime for an ounce, and 75¢ per pound. CCOF-certified. ③
A=1/8oz, \$1.50 B=1/4oz, \$2.80 C=1/2oz, \$5.00
D=1oz, \$8.00 E=4oz, \$15.00 K=1lb, \$56.00

PATTY PAN

200–320 seeds/oz. 1/8 oz packet sows 5–8 hills; 1 oz, 40–60 hills.

Gourmets call patty pans “scallopini” and consider them the most appetizing of the summer squashes. Were also known as simlins or cymlings a century ago.

Culture: Harvest as tiny buttons or up to fist size.

1577YO Y-Star OG (48 days) F-1 hybrid. A new color and new earliness for patty pan squash. Bright yellow uniform scallops with pale green stars on the blossom end. Harvested small, they are quite sweet and tender, their open plant habit with minimal spines making them extremely easy to gather. Y-Star really pumps out the fruits over an extended period. In 2010, Donna Dyrek’s first ripened July 18, a full two weeks ahead of Benning’s, and they kept coming right till the end. Bag tag limits seed to a one-time use. AGRIOR-certified. ③

A=1/16oz, \$2.90 B=1/8oz, \$5.60 C=1/4oz, \$10.00 D=1oz, \$35.00
E=4oz, \$135.00

1580SN Sunburst (52 days) F-1 hybrid. Among the most attractive of the Patty Pans with its bright yellow skin, a staple for market growers since winning the 1985 AAS. “Last one still standing,” says Anne Elder, “when all else has gone by the wayside of powdery mildew and cold temperatures.” Bag tag limits seed to a one-time use. ⑥

A=1/8oz, \$2.40 B=1/4oz, \$4.50 C=1/2oz, \$8.20
D=1oz, \$14.00 E=4oz, \$50.00 K=1lb, \$175.00

1590BG Benning’s Green Tint (55 days) Open-pollinated.

Also known as Farr’s White Bush, developed by Charles N. Farr and introduced in 1914 by F.W. Bolgiano & Co. of Washington, DC. Farr selected for the uniform scallops and the greenish-cream coloring in the younger stages of the fruits. Rated by many as the best-tasting summer squash, especially if picked small at 2–3" diameter when they are especially fine-textured and tender. ②

A=1/8oz, \$1.00
B=1/4oz, \$1.80
C=1/2oz, \$3.20
D=1oz, \$5.20
E=4oz, \$9.00
K=1lb, \$28.00



BITTER MELON *Momordica charantia*

1596JD Jade Dragon (65 days) F-1 hybrid. Bright pastel-green bumps and fluting cover the curvaceous lines of this well-named 8–14" exotic beauty, looking every bit the jade dragon. Botanically, it is neither a melon nor a gourd. Don’t be put off by the English name ‘bitter melon’—instead, think balsam pear of Asia or kerela of India, where it is a well-regarded tropical vegetable akin to immature squash that has only a bit of bitterness and absorbs other flavors really well. I have a friend who makes it a delicious centerpiece of his Solstice Feast. Now, through the wonders of modern breeding, we can enjoy a variety that has been adapted to our climate. Juniper Farm, in Quebec north of the 45th parallel, trialed 7 varieties and declared this one the best: early, productive (with about 3 fruits per plant) and oh so beautiful, “a gift to grow.” Long prized for its medicinal qualities, both the leaves and fruits are used as antivirals and to reduce blood-sugar levels. The leaves can be made into tea or cooked as greens. Moreover, the velvety seed coverings can be stuffed as a highlight for a special meal. This truly versatile plant deserves more attention. Plant in the warmest spot in your garden, and use a trellis for straight fruit. ③

A=1/8oz, \$3.40 B=1/4oz, \$6.60 C=1/2oz, \$13.00 D=1oz, \$25.00
E=4oz, \$95.00

“This is my most treasured catalog. You are involved in most important work.”
—Claire Wasser, High Falls, NY

| Weight equivalents | |
|--------------------|-------------|
| 1/16 oz = | 1.77 grams |
| 1/8 oz = | 3.55 grams |
| 1/4 oz = | 7.1 grams |
| 1/2 oz = | 14.2 grams |
| 1 oz = | 28.4 grams |
| 4 oz = | 113.5 grams |
| 1 lb = | 453.6 grams |
| 2.2 lb = | 1000 grams |

Do we sell graded seed? While the open-pollinated varieties we offer are almost never graded, we do receive graded seed for some of the hybrids, particularly in sweet corn, summer squash, brassica and pepper. Call our facilitators at (207) 426-9900 if you need specific information about seed size for a given hybrid variety, and we will help when we can.

WINTER SQUASH

Winter squash is organized by species and common groupings.

- Cucurbita pepo*:
- 1600-1610 Acorns
- 1611-1614 Delicata/Dumplings
- 1615-1616 Spaghettis
- Cucurbita maxima*:
- 1617-1619 Bananas
- 1620-1649 Buttercup/Kabochas
- 1650-1659 Hubbards
- 1660-1679 Miscellaneous *maxima*
- Cucurbita moschata*:
- 1680-1689 Butternuts
- 1690-1699 Miscellaneous *moschata*

Pumpkins (all species) are 1700-17 on pages 26-27.

All open-pollinated except where noted.

Culture: May be direct-seeded or transplanted. Direct seeding: Sow 4-5 seeds per hill when weather has warmed after danger of frost. Allow 4-6' between hills. Thin to 3 best plants. Use row covers and low tunnels to hasten maturity and reduce insect damage. Transplanting: Start indoors 3 weeks before setting out. Do not disturb the roots. Transplant bush varieties 18" apart, vining varieties 30" apart. Tender, not frost hardy. Heavy nitrogen feeders. Excessive heat and/or drought can prevent blossom set, reduce yields. Winter squash can take one or two light frosts on the vine. To improve flavor and storage, field cure for at least 10 days after harvest, covering if hard frost threatens. Store under proper conditions, at least 50° and 60-70% relative humidity in a place with good air circulation. Do not pile up squash. Inspect periodically and be sure to use damaged, stemless or small fruit first. Acorns have the shortest storage time before getting stringy, followed by delicatas, buttercup/kabochas. Minimum germination temperature 60°, optimal temperature range 70-90°, optimal temperature 85°. **Days to maturity are from direct seeding.**

Pests & diseases: See the sidebars on pages 21 and 27.

- BLR Black Rot
- PM Powdery Mildew

CUCURBITA PEPO

One of the oldest domesticated species. Pepo derives from the Greek *pepon*, meaning "ripened by the sun." They have hard 5-sided ribbed stems, and fruits are usually ribbed. They also include summer squashes and small gourds, as well as miniature pumpkins 1702-1705, pie pumpkins 1711, 1718-1723, intermediate sizes 1708 and 1729, jack-o'-lanterns 1710, 1744-1752.

Acorn group

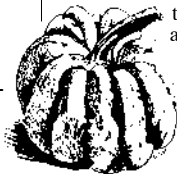
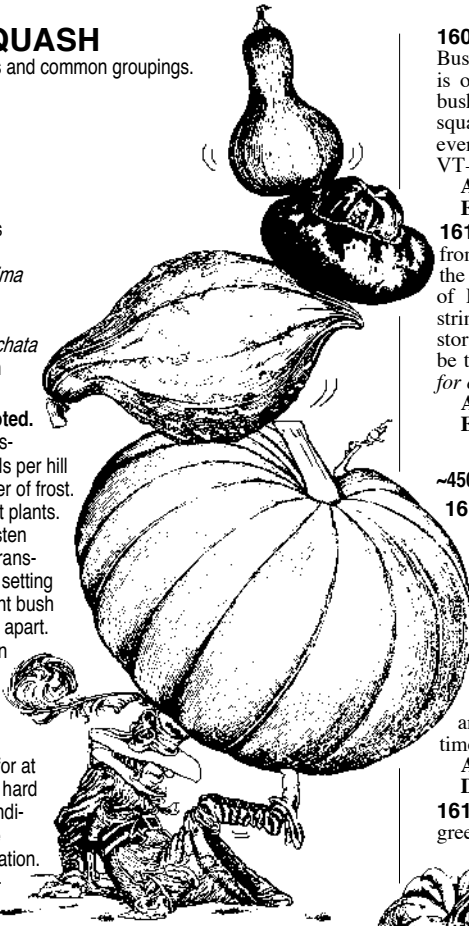
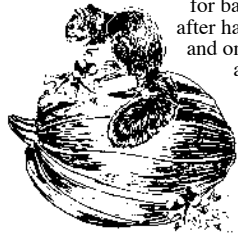
~280 seeds/oz; 1/8 oz packet sows 7 hills. Dr. Loy found that acorn squash often are not fully ripe even when they attain full size and color. They continue to develop sugars until 45 days after pollination. Do not harvest until most of the fruits display an orange ground spot. Much of their reputation for watery, fibrous, inconsistent eating quality is probably the result of premature harvesting.

1605CV Carnival (85 days) F-1 hybrid. Carnival will give your senses a thrilling ride: first treating your eyes to a kaleidoscope of colors, each fruit flecked with shades of green, gold and yellow, no two exactly alike. Then wafting to your nostrils with its nutty squash aroma as it bakes, finally thrilling your taste buds with its full-bodied sweetness. This semi-bush acorn type produces medium-sized fruits near the crowns for easy picking. Jason Kafka reported outstanding success growing Carnival and **1624 Sweet Mama** on landscape fabric. A marvelous seller at farmers markets. Will store for many months. *Note: color variation is a function of temperature. In high temperatures Carnival will have less yellow and gold and more green.* ⑤

- A=1/8oz, \$2.40 B=1/4oz, \$4.60 C=1/2oz, \$9.00 D=1oz, \$17.00
- E=4oz, \$60.00 K=1lb, \$220.00

1608TQ Table Queen (90 days) Black-green ribbed 1 1/2-2 lb fruits good for baking. Dry flesh is best eaten within 3-4 months after harvest. Introduced by the Iowa Seed Co. in 1913 and once known as Des Moines. Queen began a trend away from monster squashes in favor of smaller fruits. A similar squash was grown by the Arikara tribe in North Dakota. ②

- A=1/4oz, \$1.00 B=1/2oz, \$1.80
- C=1oz, \$3.20 D=4oz, \$7.50
- E=1lb, \$23.00 K=5lb, \$110.00



1609SO Sweet REBA OG (90 days) REBA stands for Resistant Early Bush Acorn. If you are acorn-averse, try REBA because this Cornell release is one of the sweetest acorns, flesh dry and substantial. Despite compact bush habit, heavy yields of 1-1 1/2 lb fruit. Janine Welsby harvested 25 squash from four plants. They sold so fast that she didn't get to try one "but everyone said they were delicious." Resists PM, helping sugars to develop. VT-certified. ③

- A=1/8oz, \$2.30 B=1/4oz, \$4.40 C=1/2oz, \$8.00 D=1oz, \$15.00
- E=4oz, \$55.00

1610PD Paydon (105 days) This extremely rare large tan acorn migrated from France to Louisiana to Ohio to Bosco, IL, where it was maintained by the Paydon family since the 1860s. Flavor, texture and sweetness remind us of Delicata and Sweet Dumpling. Delicious yellow flesh, though a bit stringy. Teardrop-shaped fruits turn from creamy-tan to bright yellow in storage. Extremely vigorous vines give moderate yields of 3 lb fruits. May be the final year we offer unless sales pick up. *Requires too long a season for cold northerly areas.* ①

- A=1/8oz, \$1.90 B=1/4oz, \$3.60 C=1/2oz, \$6.50 D=1oz, \$12.50
- E=4oz, \$40.00

Delicata/Dumpling group

~450 seeds/oz. 1/8 oz packet sows 4 hills.

1611ZO Zeppelin Delicata OG (100 days) Zeppelin is good Delicata, from an old strain that was not affected when the trade allowed this beloved 1894 heirloom to be crossed by desert gourds. The lovely ivory-colored oblong

1 lb fruits with dark green stripes have the unsurpassed sweetness that gives Delicata its good reputation. In storage the green stripes turn orange and the cream background sometimes yellows. OT-certified. ①

- A=1/8oz, \$1.90 B=1/4oz, \$3.60 C=1/2oz, \$6.50
- D=1oz, \$12.50 E=4oz, \$33.00 K=1lb, \$120.00

1614SD Sweet Dumpling (100 days) Stunning 1-1 1/2 lb ivory-colored green-striped fruits shaped like miniature pumpkins sell themselves on the stand. *New York Times* food writer Regina Schrambling called them the "avocados of squash" for their inherent buttery richness and sweet-tangy taste. To experience its sweet dry and memorably rich deep orange flesh, make sure your Dumpling is ripe. Introduced by Sakata Seed Corp. of Yokohama, Japan, in 1976 and marketed as Vegetable Gourd. Sold better after they changed its name to the more appealing Sweet Dumpling. ③

- A=1/8oz, \$1.40 B=1/4oz, \$2.50 C=1/2oz, \$4.00
- D=1oz, \$7.00 E=4oz, \$17.00 K=1lb, \$45.00

Spaghetti group

~190 seeds/oz. 1/8 oz packet sows 5 hills.

Squisito (87 days) Alas, crop failure. *Not available in 2017; we hope to have it back for 2018.*

1616SP Spaghetti (88 days) Penny Kupinski of Harrisburg, MO, took us to task for damming spaghetti squash with faint praise. "From your description you may not have had *truly ripe* spaghetti squash which is a *deep gold*. Pale yellow is nowhere near ripe and tasteless and tough. Takes a long time to mature even here...but has a wonderful nutty flavor when ripe and needs only a little salt and pepper to be excellent...It is also a great keeper."

Oblong fruits, generally around 4 lb with spaghetti-like strings in the flesh. First commercialized by Sakata in Japan in 1934 and brought to the States by Burpee two years later. ②

- A=1/4oz, \$1.40
- B=1/2oz, \$2.00
- C=1oz, \$3.50
- D=4oz, \$9.00
- E=1lb, \$35.00
- K=5lb, \$160.00



Light and darkness, brightness and obscurity, or if a more general expression is preferred, light and its absence, are necessary to the production of color... Color itself is a degree of darkness.
—Johann Wolfgang von Goethe

Supplier Codes Know where your seed comes from! Details on page 4.

- ① Small seed farmers including Fedco staff.
- ② Family-owned companies or cooperatives, domestic and foreign.
- ③ Domestic and foreign corporations not part of a larger conglomerate.
- ④ Multinationals not to our knowledge engaged in genetic engineering.
- ⑤ Multinationals who are engaged in genetic engineering.
- ⑥ Manufacturers of neonicotinoids: Bayer and Syngenta.

CUCURBITA MAXIMA

Green in stems signifies immature fruit. Fat round stems turn corky and woody when the squash is ripe. Fruits tend to be medium to large and often have bumpy surfaces and button-ends. See also pumpkins: Lumina 1713, Jarrahdale 1716, Rouge Vif d'Etampes 1727 and Big Max 1757.

Banana group

~125 seeds/oz. 1/8 oz packet sows 4 hills.



Guatemalan Blue (95 days) an oh-so-smooth texture and a stick-o-the-ribs heartiness that warms and satisfies on a chilly autumnal night.

Heirloom from Guatemala sets 5x15" banana-shaped bluish-green fruits with slight striping. My two,

one at each end of its 5–10 lb spectrum, grown in the heat of 2012, were ripe in mid-late August. Good keeper with thick firm moist yellow not overly sweet flesh. ②

A=1/8oz, \$1.90 B=1/4oz, \$3.60 C=1/2oz, \$6.50 D=1oz, \$E=4oz, \$32.00

1618SB Sibley (100 days) Also known as Pike's Peak. Among best for flavor, this once-revered brown-seeded heirloom first surfa Missouri River watershed in the 1830s and is similar to kindred found among the Winnebago Indians. Some of our seed is from Sibley, whose great-great-grandfather of the same name intro to commerce in 1887 through his seed company in Rochester, NY day Hiram has been growing it in Maine in recent years, selectiveness to type, taste and adaptability. Vigorous 12–15' vines produce blue obpyriform 1' long fruit weighing 6–8 lb, once described by Pollan as "pinched in both ends and bulging at the waist." Libe gardener Jake Kennedy adds that these fetching fruits resemble blue hauled out on a ledge. Famous New England seedsman James J.H called it "magnificent" and Goldman rates it "the best of the banana group she calls "top tier." Ours was rich, moist, flavorful and sweet we sampled it in October, too soon. The quintessential storage squash coming into its own until January after its orange flesh has dis sweetened. Brought on board the Slow Food Ark of Taste. ①②③

A=1/8oz, \$1.90 B=1/4oz, \$3.60 C=1/2oz, \$6.50 D=1oz, \$11.00 E=4oz, \$32.00 K=1lb, \$95.00

1619PB Pink Banana (105 days) I love these preposterous elongated 5x18" bananas, but our customers have been slow to adopt them, so *the last year we will offer. Really!* If you like your squashes very mild and sweet, Banana is one of the best, and there is a lot of eating in its average 14 lb fruits. Needs plenty of warmth to bring out its full Don't pick until its stocky blunt stem is corky. A liability is its short storage; it sometimes develops sunken spots that can lead to rot. Be and use for Thanksgiving dinner or by early winter. Have a banana you still can. Seed in short supply; *order early.* ②

A=1/4oz, \$1.50 B=1/2oz, \$2.60

Buttercup/Kabocha group

~160 seeds/oz. 1/8 oz packet sows 4 hills. Buttercup squashes, the main type grown in the Northeast, account for about 19% of New England winter squash sales. Kabocha is a form of Japanese pumpkin. Kabochas look like buttercups without the protruding cup on the blossom end.

1622BU Bush Buttercup Emerald strain (80 days) Fruits generally a lighter green than Burgess Buttercup, not as uniform or good quality but ready two weeks earlier. Mostly bush habit saves space. Introduced 1952. ②

A=1/4oz, \$1.60

1624SM Sweet Mama (88 days) F-1 hybrid. Mama is a grey-green drum-shaped kabocha type with rounded shoulders and no cup. A week earlier than Burgess with outstanding sweet flavor. Among my favorite large winter squash, dependable Mama pleases commercial growers as well as home gardeners. 1979 AAS. ⑤

A=1/8oz, \$2.70 B=1/4oz, \$5.20 C=1/2oz, \$9.50 D=1oz, \$18.00 E=4oz, \$65.00

1625TH Thunder (88 days) F-1 hybrid. Our taste testers greeted this kabocha/buttercup hybrid with *thunderous* applause. They found the taste of its dry sweet dense 2" thick flesh *enlightening*. Gardeners will also like its productivity of 3–4 uniform 3 1/2 lb fruits per plant. The 7x4" squash with no cup has jade sutures with jade splotches over forest green skin. Very early maturing for its type and, with long corky stems, easy to cut from the vine. Add a little boom to your winter storage fare. ②

A=1/8oz, \$2.60 B=1/4oz, \$5.00 C=1/2oz, \$9.50 D=1oz, \$18.00 E=4oz, \$65.00 K=1lb, \$195.00

1626RK Red Kuri (92 days) Also called Uchiki Kuri; *Kuri* means 'chestnut' in Japan. Growers admire its spectacular red-orange fruits, among the most attractive of all squashes. Its flavor elicits a wide range of comments from "the best winter squash" to "glorified zucchini, flavor like water." Liking the dry flesh of this Japanese squash, we think the truth lies somewhere in between. Very popular at roadside stands. Tear-drop-shaped fruits avg 3–4 lb. Though reputed to be good keepers, their thin skins do not store well, say members of one CSA. Also prized for the aroma of their blossoms when fried. ⑤

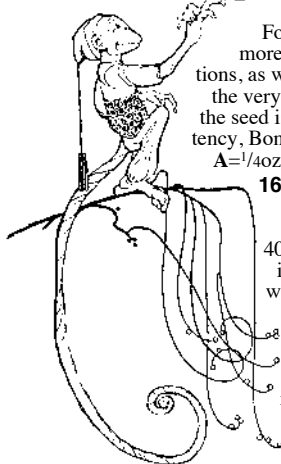
A=1/8oz, \$2.40 B=1/4oz, \$4.50 C=1/2oz, \$8.50 D=1oz, \$16.00 E=4oz, \$42.00 K=1lb, \$145.00



1628BB Burgess Buttercup (95 days) New England's favorite winter squash, enjoyed for its sweet deep-orange flesh. Fruits, with an acorn-shaped button on the blossom end and flattened shoulders, average 3–4 lb with about 4 per hill. Stem is well dried when ripe. The original buttercup strain showed up in 1925 as a chance cross between Quality and Essex Hybrid in the trial garden at North Dakota Agricultural Experiment Station. After further selection by famous seedsman Albert Yaeger, Oscar H. Will of Bismarck introduced it in his 1931 catalog. Alan Kapuler has said, "If you pick only one squash to grow this is it." Jean Kennedy of Little Red Barn Produce in Walton, OR, agrees: "This squash is not getting the attention others are and it is waayay better! Its texture is perfectly smooth, it has just the perfect sweetness and its flavor isn't overly squashy. Could be used in any recipe for dessert or dinner." ②

A=1/4oz, \$1.50 B=1/2oz, \$2.60 C=1oz, \$5.00 D=4oz, \$11.00 E=1lb, \$38.00 K=5lb, \$185.00

1629NN Bonbon (95 days) F-1 hybrid. I am reluctant to add hybrids where we have perfectly good open-pollinated varieties in the catalog. However, a dozen years after Johnny's won an AAS award for Bonbon, it is time for us to strengthen our buttercup selection and give this superior variety its due. Bonbon's advantages over the old Burgess strain are slight, but across the board they add up. First, consistency. Burgess can be variable, and in stressed seasons like this past one, that may matter. Second, productivity. At 4–5 lb Bonbon is slightly the larger of the two, and at 4 fruits per plant, may yield more fruits as well. Third, appearance. Bonbon never fails to have the prominent grey button at its base that is the hallmark of the true buttercup.



Fourth, flavor. Each at its best has superb flavor, but Bonbon is more likely to deliver it. Under highly fertile and favorable conditions, as when my rampant vines crawled through a manure pile during the very warm 2015 season, production can be astonishing. Although the seed is expensive, if your markets and profitability demand consistency, Bonbon may offer you value despite the cost. ③ **NEW!**

A=1/4oz, \$3.80 B=1/2oz, \$7.50 C=1oz, \$14.00 D=4oz, \$42.00

1630DO Uncle David's Dakota Dessert OG (95 days)

David Podoll calls this strain "the original buttercup." It has been in his family for 70 years. They've been selecting it for 40 years, crossing it with hubbards and other *maximas*, primarily for color, taste, sweetness, and vigor and hardiness in cold weather, but also for thick flesh, small seed cavities and higher productivity. The Podoll family bake it into pies without using any other sweetener. Also a versatile main-dish squash, with all the character that makes buttercup a New England favorite. ICS-certified. ①

A=1/4oz, \$2.00 B=1/2oz, \$3.80 C=1oz, \$7.20 D=4oz, \$28.00 E=1lb, \$105.00

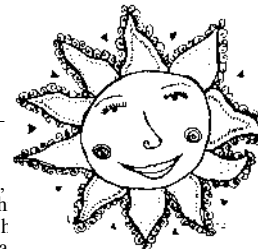


1633ER Eastern Rise (95 days) F-1 hybrid. The #1 squash in China and the best-yielding hybrid in Heron Breen's trial, besting 1635 Sunshine and Confection. Featuring a creamy texture with just the right sweetness, Rise's heavenly flavor won unanimous praise from our feisty warehouse tasting crew. Heron claims it cures more reliably than Sunshine, even in poor fall weather, coming into full flavor after December with almost no spoilage until after February. Carol Deppe, of Fertile Valley Seeds in Corvallis, OR, concurs. Average 3 1/2 lb fruits, attractive orange-red streaked with green, flattened large buttercups without the turban. Firm orange flesh with rich nutty flavor in perfect balance, the right sweetness, the right moistness, the right texture, smooth and hearty. Grows well in cool conditions; dislikes extreme heat. When grown in inadequate sunlight may develop green spots. PM tolerant. ③

A=1/8oz, \$2.70 B=1/4oz, \$5.20 C=1/2oz, \$9.50 D=1oz, \$18.00 E=4oz, \$65.00 K=1lb, \$250.00

1635SS Sunshine (95 days) F-1 hybrid.

Sunshine, Johnny's All-America winner, combines the spectacular scarlet color of a Red Kuri with a sublime eating quality previously lacking in red squash. The bright orange flesh, dry yet tender, sweet yet meaty, has tested as a Brix 15. While none of the Buttercup types is yielding, these short-vined plants give a fair share shaped like a buttercup but with rounded shoulders and no turban. One year we had 14 averaging 4.4 lb each from just three hills. Rob Johnston says they derived Sunshine from a cross between two different orange varieties developed at Johnny's. Counting the three years needed to stockpile a sufficient seed supply, it required almost 20 years' labor. Heron says its thin skins do not cure well in cold wet autumns and can be damaged around stems and shoulders by light frosts. Kristen Davenport of Boxcar Farm in Washington disagrees about the relative storage capabilities of Sunshine and Eastern Rise. She says, "Sunshine was our longest storing squash with the exception of our local Maxima Hubbard type, better than any kabocha or acorn... as of Jan. 4 they are still good, hard, flesh perfect and a little sweeter than in the fall." ③



A=1/8oz, \$2.70 B=1/4oz, \$5.20 C=1/2oz, \$10.00 D=1oz, \$18.00 E=4oz, \$57.00 K=1lb, \$215.00

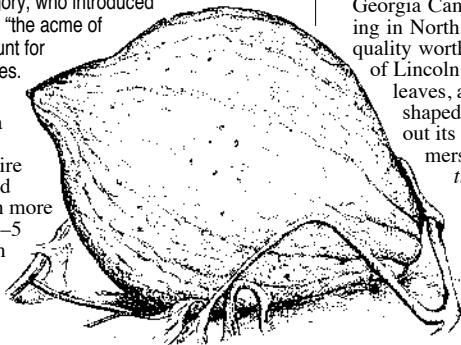
Hubbard group

~120 seeds/oz. 1/8 oz packet sows 3 hills. Gregory, who introduced hubbards to commerce around 1850, called them "the acme of perfection in squashdom," though they now account for only about 5% of New England winter squash sales.

1654BB Baby Blue Hubbard (95 days)

For home gardeners with space limitations, a scaled-down version of **1655 Blue Hubbard** developed at the University of New Hampshire from a 1953 cross between Blue Hubbard and Bush Buttercup. Baby Blue's vines are much more compact and its fruits much smaller (about 4-5 lb), but their flavor at maturity doesn't match up to those traditional large hubbards and their yield is lower, too. ②

A=1/8oz, \$1.50 B=1/4oz, \$2.50
C=1/2oz, \$4.20 D=1oz, \$7.50
E=4oz, \$16.00 K=1lb, \$55.00



1655BH Blue Hubbard New England strain (100 days) Introduced in 1909 by Gregory as Symmes Blue Hubbard, in honor of S.S. Symmes, a gardener who worked for his company for many years. Gregory considered it his best introduction, praising its flavor, productivity and storage qualities. The 1917 Gregory catalog said "close your eyes...and you would think you were eating cake." Bright yellow-orange dry sweet flesh. Each squash will feed a large family because fruits average 15-20 lb, sometimes exceeding 30 or 40 lb. Vines crawl all over the garden. Traditional New England Thanksgiving favorite. Prized also for its large white sweet seeds—delicious roasted. Blue Hubbard has proven effective as a perimeter trap crop for striped cucumber beetles. Completely encircle a main crop of other cucurbits with Hubbard vines, concentrating the pests in the border areas. ③

A=1/4oz, \$1.20 B=1/2oz, \$2.20 C=1oz, \$4.00 D=4oz, \$10.00
E=1lb, \$32.00 K=5lb, \$150.00

Miscellaneous Maxima

1665LO Lower Salmon River OG (94 days) This rare western treasure, an unsung hero among winter squashes, is among the best for eating quality. Once maintained by the old Abundant Life Seed Foundation before their unfortunate fire, and almost added to our list after I sampled it in 2001. In our 2009-10 winter squash taste test it won plaudits from our staff for its thick tasty sweet orange flesh, superb for squash pie. Large salmon-pink pumpkin-like fruits, quite variable in size, averaged 7.5 lb in my trial. Plenty of seed on hand. Atlantic-certified. ①

1668SM Sweet Meat (95 days) This tasty 12-15 lb slate-grey heirloom, shaped like a slightly flattened round pumpkin was maintained by an Oregon family for 100 years and sold by Gill Bros. of Portland, OR. A best-seller in Oregon, it has long been a western specialty variety that deserves a wider following. Its dry sweet nutty thick orange flesh improves in storage with a flavor similar to **1655 Blue Hubbard**. ②

A=1/8oz, \$1.90 B=1/4oz, \$3.60 C=1/2oz, \$6.50
D=1oz, \$12.00 E=4oz, \$30.00

1672GO Galeux d'Eysines OG (98 days) writer Barbara Damrosch says "it looks as if p shaped worms were crawling about its surface Depending on your point of view, it is either among the ugliest or most beautiful of all squashes. I vote for the latter. This heirloom, hailing from the Bordeaux region of France, v listed by Vilmorin in 1883 as Warded Sugar Marrow. It resurfaced at the Pumpkin Fair in Tranzault, France, in 1996. Shaped like round slightly flattened pumpkins, the 15 lb fruits ha salmon-peach skins covered with large warts. Although Galeux is worth growing for beauty alone, its tender moist sweet orange flesh is delightful in soups or baked. Ripens easily from direct seeding even in sub- prime squash years. For your autumn pleasure; not a good keeper. OT-certified. ①

A=1/4oz, \$1.30 B=1/2oz, \$2.20 C=1oz, \$4.00 D=4oz, \$10.00
E=1lb, \$28.00

1673MC Marina di Chioggia (100 days) The sea pumpkin of Chioggia is surely one of the most beautiful squashes with its deep ridges and bumpy protuberances. Variability adds to their appeal, color ranging from aquamarine to very dark green, most with bumps, some without. Though fruits grow quite large, averaging 15 lb, they have such eye appeal that growers report are hot sellers. As delectable as they are handsome, even those harvested in 2009's horrific squash year won accolades from our staff for their dense moist texture, rich sweetness and real substance. Delicious baked, in pies; ideal for gnocchi and ravioli. *Caution: rampant vines.* ②

A=1/16oz, \$2.00 B=1/8oz, \$3.60 C=1/4oz, \$6.50 D=1/2oz, \$11.00
E=1oz, \$18.00

1685PC Ponca Baby Butternut (90 days) Ideal for short-season gardeners who like butternut but can't vine-ripen Waltham. Baby 2 lb fruits ripen here well before Common Ground Fair. With small seed cavities, the fruits mature to tan without green streaking, but don't store as well as their big Waltham cousins. Developed by Dermot P. Coyne at the University of Nebraska in 1976. ③

1686LD Little Dipper (104 days) F-1 hybrid. In summer 2015, we trialed a slew of those personal-size, supposedly powdery-mildew-resistant, hybrid butternuts. We were shocked to find that all but one variety melted down and yielded poorly. While we pawed around salvaging the few fruits of this and that failure, Little Dipper's ongoing eruption of green stood in sharp contrast. The small fruits of the other personal butternuts come with restricted habit and often a correspondingly low yield. Dipper's plethora of uniform pale-tan 2-3 lb fruits are set on fully running weed-suppressing vines. We harvested an impressive 22 fruits from 3 plants. Open-pollinated Burpee's Butterbush stills reigns for flavor, but Dipper offers nice smooth semi-dry texture and medium nutty sweetness through long storage. While supplier stats of other varieties in the trial advertised their supposed-PMR status boldly, Little Dipper's just warned of us of the crazy growth. For disease and worry resistance, we'll take vigor and volume any day. ⑤ **NEW!**

A=1/16oz, \$2.70 B=1/8oz, \$5.00 C=1/4oz, \$8.00 D=1oz, \$28.00
E=4oz, \$98.00

1687WB Waltham ②
A=1/4oz, \$1.20 B=1/2oz, \$2.00 C=1oz, \$3.50 D=4oz, \$9.60
E=1lb, \$26.00 K=5lb, \$126.00

1688WO Waltham OG CCOF-certified. ③
A=1/4oz, \$1.50 B=1/2oz, \$2.60 C=1oz, \$5.00 D=4oz, \$10.50
E=1lb, \$36.00

1676CO Candy Roaster OG (112 days) Not to be confused with North Georgia Candy Roaster, this large Appalachian heirloom, possibly originating in North Carolina, is peerless as a baked squash, boasting superb eating quality worthy of its name. Highly esteemed by market grower Paul Hauser of Lincoln University, PA, Candy Roaster grows luxuriant vines with large leaves, and matures somewhat warty pinkish-orange enlarged buttercup-shaped fruits of variable size with blue-green markings. Warmth brings out its sweetness and it does not reach full flavor potential in cool summers. Avg production 2 fruits/plant ranging from 5-25 lb each. *Caution: Ripens in northern areas only in good growing years.* QCS-certified. ①

A=1/8oz, \$2.00 B=1/4oz, \$3.60 C=1/2oz, \$6.60
D=1oz, \$12.50 E=4oz, \$36.00

CUCURBITA MOSCHATA

C. moschata are usually smooth and tan. See also **1740 Cheese Pumpkin**. All open-pollinated except **1686 Little Dipper**.

Butternut group

~280 seeds/oz, 1/8 oz packet sows 7 hills. Butternut was introduced in 1936 by Joseph Breck and Sons of Boston, out of Canada Crookneck, an 1800s variety. They are the best keepers and contain 30% more vitamin A than hubbards and 80% more than acorns.

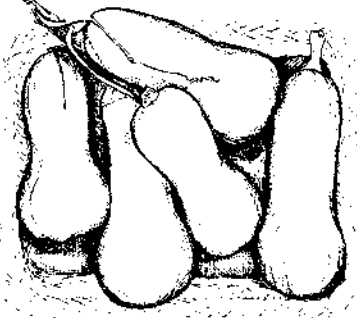
Culture: The larger butternuts should be started indoors to mature in our climate. They are the squash of choice in Zones 6 and south because of their relative resistance to the squash vine borers that torment acorns and buttercups.

1683BO Burpee's Butterbush OG (87 days) "Hands down the best" of the nine different butternuts Mark Fulford tried over the years. Fruits average no more than 1 1/2 lb, each a perfect one-person serving chock full of deep reddish-orange flesh "as sweet as the best sweet potatoes." Seed cavities are small. Fulford describes the flavor as nutty, and the texture moist but never watery, not as moist as the large butternuts. Their earliness is an important plus in cold summers. Though named and classed as a bush butternut, more accurately they have determinate vines that can crawl up to 10' in good fertility. Still a big advantage over the unrestrained crawlers where space is precious. Average yield is 3-5 ripe fruits per plant. Flesh has superior flavor and deeper color than any other butternut. Smooth tan skin; excellent keeper. MT, OT-certified. ①

A=1/8oz, \$2.00 B=1/4oz, \$3.60 C=1/2oz, \$6.60 D=1oz, \$12.50
E=4oz, \$36.00

1685PC Ponca Baby Butternut (90 days) Ideal for short-season gardeners who like butternut but can't vine-ripen Waltham. Baby 2 lb fruits ripen here well before Common Ground Fair. With small seed cavities, the fruits mature to tan without green streaking, but don't store as well as their big Waltham cousins. Developed by Dermot P. Coyne at the University of Nebraska in 1976. ③

A=1/8oz, \$1.80 B=1/4oz, \$3.50
C=1/2oz, \$6.20 D=1oz, \$11.50
E=4oz, \$34.00



1686LD Little Dipper (104 days) F-1 hybrid. In summer 2015, we trialed a slew of those personal-size, supposedly powdery-mildew-resistant, hybrid butternuts. We were shocked to find that all but one variety melted down and yielded poorly. While we pawed around salvaging the few fruits of this and that failure, Little Dipper's ongoing eruption of green stood in sharp contrast. The small fruits of the other personal butternuts come with restricted habit and often a correspondingly low yield. Dipper's plethora of uniform pale-tan 2-3 lb fruits are set on fully running weed-suppressing vines. We harvested an impressive 22 fruits from 3 plants. Open-pollinated Burpee's Butterbush stills reigns for flavor, but Dipper offers nice smooth semi-dry texture and medium nutty sweetness through long storage. While supplier stats of other varieties in the trial advertised their supposed-PMR status boldly, Little Dipper's just warned of us of the crazy growth. For disease and worry resistance, we'll take vigor and volume any day. ⑤ **NEW!**

A=1/16oz, \$2.70 B=1/8oz, \$5.00 C=1/4oz, \$8.00 D=1oz, \$28.00
E=4oz, \$98.00

1687WB Waltham ②
A=1/4oz, \$1.20 B=1/2oz, \$2.00 C=1oz, \$3.50 D=4oz, \$9.60
E=1lb, \$26.00 K=5lb, \$126.00

1688WO Waltham OG CCOF-certified. ③
A=1/4oz, \$1.50 B=1/2oz, \$2.60 C=1oz, \$5.00 D=4oz, \$10.50
E=1lb, \$36.00



Miscellaneous *Moschata*

1693SO Seminole OG (110 days) Creek-speaking Seminole Indians gave it the name *chassa-howitska*, meaning 'hanging pumpkin.' Rated one of the ten most endangered American foods by RAFT, these buff-colored 7" tear-drop-shaped squashes were cultivated by the Seminoles in the Everglades region of Florida in the 1500s. The seeds were sowed at the base of girdled trees, so that the irrepressible vines, which grow in excess of 30', climbed the trunks, allowing the fruit to hang from the bare limbs. The deep orange flesh is sweeter than butternut, superb for pies, soup and baked treats, and the key ingredient in delicious Seminole pumpkin bread. Rated third among 21 varieties in Restoring Our Seed's 2005 fall taste test, and was co-star with Paydon in our February 2006 warehouse feast. Resistant to vine borers. Extremely hard rind must be cracked like a coconut. Stores nearly forever. A



great performer in the south and along the Atlantic seaboard, it loves hot humid climates. *Probably requires too long a season to thrive in the north*, however Elisa Carbone of Hendricks, WV, advises that the immature fruits taste like extremely sweet zucchini. "Just chop them up and steam, sauté or make the most heavenly frittata ever!" QCS-certified. ① ②

- A=1/8oz, \$2.00 B=1/4oz, \$3.60
- C=1/2oz, \$6.40 D=1oz, \$12.00
- E=4oz, \$40.00

PUMPKINS

100-280 seeds/oz. 1/8 oz packet sows 3-8 hills. Botanically, there are no such things as pumpkins. But we know one when we see one. "Pumpkins" listed here are three species, *Cucurbita pepo* (mini pumpkins, small pie and some jack-o'-lanterns), *C. moschata* (cheeses) and *C. maxima* (jack-o'-lanterns and decorative). **Culture:** Plant 4-5 seeds/hill. Allow 6 ft between hills. All open-pollinated except **1708 Autumn Gold** and **1710 Diablo**.

1702WL Wee-B-Little (90 days) *C. p.* This triumph of miniaturization impressed the 1999 AAS judges. Bred to please home and market gardeners and kids everywhere. Unribbed fruits are easier to decorate than Jack Be Little. Small vines (only 6-8') produce 3-4 mini 8-12 oz fruits per plant. Fruits, more upright than Jack Be Little with darker orange rind, look just like tiny pie pumpkins and could serve as such. Sturdy dark green stems provide prickle-free handles. **PVP.** ②

- A=1/8oz, \$2.00 B=1/4oz, \$3.60 C=1/2oz, \$6.40
- D=1oz, \$12.00 E=4oz, \$32.00

1705JL Jack Be Little (95 days) *C. p.* Tiny ornamental pumpkins weigh only about half a pound. They're great for decorations and a big hit with kids. Flattened, heavily ribbed fruit with vigorous stems. Good to eat, excellent stuffed. Short vines, about 3-5'. Introduced by Hollar in 1987. ②

- A=1/8oz, \$1.70 B=1/4oz, \$3.00
- C=1/2oz, \$5.20 D=1oz, \$9.00
- E=4oz, \$26.00 K=1lb, \$90.00

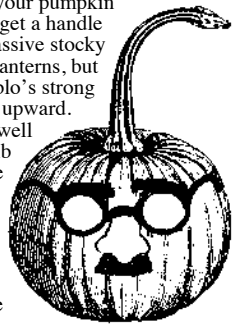
1708AG Autumn Gold (98 days) *C. p.* F-1 hybrid. Even northernmost growers can vine-ripen medium-sized pumpkins with 1987 AAS Autumn Gold. Commercial growers love its "preocious yellow" gene that ensures no green pumpkins at harvest. Instead, immature fruits are yellow, ripening to a deep orange, ribbed, with good handles, 10-15 lb average. ②

- A=1/8oz, \$1.90
- B=1/4oz, \$3.40
- C=1/2oz, \$6.00
- D=1oz, \$10.00
- E=4oz, \$29.00
- K=1lb, \$99.00

If there's one plant pigment that's easy to remember, it's chlorophyll. Synthesized by plants with the help of warmth and sunlight, chlorophyll is critical to photosynthesis. As the days shorten and cool, chlorophyll breaks down and is not replaced, allowing ever-present xanthophylls and carotenes to strut their stuff, flaunting golden, yellow and orange hues. Unlike carotenes and xanthophylls, anthocyanins (responsible for red leaf shades) are not present year-round. They are produced in late summer in response to declining phosphate levels in the leaves.



1710DB Diablo (98 days) *C. p.* F-1 hybrid. If your pumpkin program has been out-Fox'd, maybe it's time to get a handle on it by going to the devil. Tom Fox, with its massive stocky handles, has defined the recent trend in jack-o'-lanterns, but we think this devil has a more refined look; Diablo's strong 4 1/2" stems are wide at the base and taper gently upward. We liked its nicely rounded Foxy fruit shape as well as its deep orange color, its intermediate 12-22 lb size and its medium-deep ribs. Semi-determinate vines. Bag tag limits seed to a one-time use. FM tolerant. ⑤



- A=1/8oz, \$2.90 B=1/4oz, \$5.70
- C=1/2oz, \$11.00 D=1oz, \$20.00
- E=4oz, \$75.00

1711BP Baby Pam (99 days) *C. p.* Agway pie pumpkin has deep orange color and excellent uniformity. Vine-ripens 80-90% of its fruits even in a bad squash year, so it's popular among Maine commercial growers. Fruits average 3-4 lb, slightly smaller and earlier ripening than New England Pie with the same excellent quality. ②

- A=1/4oz, \$1.00 B=1/2oz, \$2.60 C=1oz, \$5.00 D=4oz, \$10.50
- E=1lb, \$40.00

1713LU Lumina (100 days) *C. max.* Originated as a chance sport in one of Hollar's California pumpkin fields about 20 years ago. A lustrous ivory pumpkin that kids will love, excellent for both carving and painting. Lumina stores well if not exposed to frost, so a face painted on its smooth surface will last for weeks instead of days. Under stress, the fruit may develop blue patches. Fruits 8-10" high average 12 lb, variable depending on growing conditions. Cooks like its sweet yellow flesh. Good for puréeing or making pumpkin soup. Whether you eat it, decorate it, or both, Lumina is sure to please. **PVP** has expired. ②

- A=1/8oz, \$1.90 B=1/4oz, \$3.50 C=1/2oz, \$6.00 D=1oz, \$11.00

1716JD Jarrahdale (100 days) *C. max.* Add a touch of the unusual to your squash patch with this grey-blue Australian emigré. Somewhat sparse yields of 6-10 lb heavily ribbed fruits flattened on top like pumpkins, but with much sweeter dark moist flesh. Becky McCullough of Falmouth, MA, loved its heavenly aroma when she roasted it. Anne Elder calls it "an excellent eating pumpkin, mild, stringless, quick to bake, easy to blend into a great pie." Outstanding keeper. ③

- A=1/8oz, \$1.40 B=1/4oz, \$2.50 C=1/2oz, \$4.60 D=1oz, \$7.50
- E=4oz, \$16.00 K=1lb, \$43.00

1718WO Winter Luxury OG (100 days) *C. p.* Back in 1988 when it was maintained only by the Jung Seed Co. in Wisconsin, Mark Fulford recognized that Luxury was "3-4 times as good for pies as New England Pie." Since generating rave reviews from Amy Goldman, it has become more widely available. Uniquely russeted finely netted golden-orange skin "so beautiful...that it breaks my heart to cut one open." The beauty is far more than skin deep, with Goldman calling the "flavor as fabulous as her appearance," and Elaine Carlson describing the purée as "really silken." Introduced in 1893 by Johnson & Stokes as Winter Luxury and in 1894 as Livingston's Pie Squash by A.W. Livingston's Sons. Though the original Luxury was a lemon yellow, we offer the rich orange strain first sold by Gill Bros. of Portland, OR, in 1917. Vigorous vines bear globular 7-8 lb fruits with juicy tender slightly sweet pale orange flesh. Productive, too, but somewhat delicate and only fair keepers. Goldman advises piercing the pumpkin with a few tiny vent holes, baking it whole until it slumps—about an hour at 350°, then scooping out the pumpkin flesh and putting it in the blender to make "the smoothest and most velvety pumpkin pie." OT, MOFGA-certified. ① ③

- A=1/8oz, \$1.80
- B=1/4oz, \$3.50
- C=1/2oz, \$6.00
- D=1oz, \$11.00
- E=4oz, \$30.00



Saving squash seed is challenging.
We list three different species of the genus *Cucurbita*. Different varieties within the same species will cross readily, but crossing does not occur between the different species. Seeds from a crop that has been exposed to other cucurbits of the same species won't grow true to type. If you are saving seed, you need to isolate your crop from other cucurbits of the same species by at least 1500', or protect it from insects that would bring unwanted pollen, and hand-pollinate it yourself.

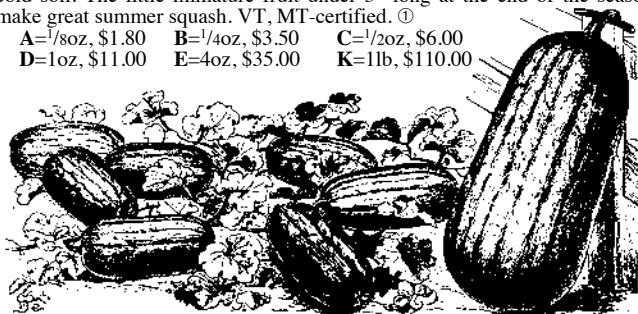
New England Pie (102 days) *C. p.* Also known as Small Sugar pumpkin. Probably selected out of Connecticut Field pumpkin by early white settlers, the standard pie pumpkin for generations. A robust yielder in good seasons. One warm year, our two hills produced more than 100 lb; the 25 pumpkins, all vine-ripe, averaged 4.26 lb. During cold summers production is lower and only half will vine-ripen. However, ripening continues during curing.

1719NE New England Pie ②
 A=1/4oz, 90¢ B=1/2oz, \$1.60
 C=1oz, \$2.90 D=4oz, \$6.00
 E=1lb, \$18.00 K=5lb, \$85.00

1720NO New England Pie OG
 CCOF-certified. ③
 A=1/4oz, \$1.50 B=1/2oz, \$2.80
 C=1oz, \$5.00 D=4oz, \$12.00
 E=1lb, \$35.00

1723LO Long Pie OG
 (102 days) *C. p.* Possibly an old Native American variety offered by Burpee in 1888 as St. George, still the best pumpkin for Yankee pumpkin pies. Though widely grown in Androscoggin County 75 years ago (an old-timer remembers them stacked up on porches like firewood), it almost became extinct. LeRoy Souther, a Livermore Falls, ME, native who maintained it for more than 30 years, brought seeds to cucurbit aficionado John Navazio at his Common Ground Fair squash booth in the late 1980s. Navazio exhibited one at the 1988 Fair, then reintroduced it to commerce through Garden City Seeds in Montana. 3–5 lb fruits look like overgrown zucchinis to the uninitiated, but the telltale sign is an orange spot where the otherwise all-green elongated fruit rested on the ground. Vines have enormous vigor that has been increased through selection by our seed growers and can achieve astonishing yields. In storage, the whole fruit first blushes, then glows bright orange, signaling that its delicious flesh is ready to be turned into incomparable pies. One of the best for continued ripening after picking, Long Pie stored at 50° keeps all winter. Germinates poorly in cold soil. The little immature fruit under 5" long at the end of the season make great summer squash. VT, MT-certified. ①

A=1/8oz, \$1.80 B=1/4oz, \$3.50 C=1/2oz, \$6.00
 D=1oz, \$11.00 E=4oz, \$35.00 K=1lb, \$110.00



1727RV Rouge Vif d'Étampes (105 days) *C. max.* Also known as Cinderella. Goldman says it "coasts on its looks alone...insipid and watery." "Not so," dissents Donna Fraser-Leary of Charlotte, VT. "You do this... versatile pumpkin an injustice...While their flavor is somewhat milder than a winter squash and the texture somewhat fibrous...My daughter and I like it so much, we steam the pumpkin and eat it still in the shell. I use it in all my favorite recipes that call for squash or pumpkin." Rosalind Creasy says chefs in France use it as a base in their vegetable stock and bake garlic, onions and leeks in the pumpkin to scoop right from the shell into a Swiss cheese leek soup. While folks may disagree about its eating quality (I fall closer to Goldman's camp), no one can gainsay its spectacular beauty. This French heirloom turns the pumpkin patch into a glowing blaze with its decorative deeply ridged burnt-orange to red 7–30 lb flattened fruits. Because of its thin skin, not a great keeper. Originated in France in the early 1800s, named for a town south of Paris. Introduced to the U.S. by Burpee in 1883. ②

A=1/8oz, \$1.50 B=1/4oz, \$2.80 C=1/2oz, \$4.80 D=1oz, \$8.00
 E=4oz, \$21.00 K=1lb, \$62.00

Disease: Powdery Mildew

Controls: Use small plots to slow spread, plant indeterminate (viney) varieties, control weed competition.

Materials: sulfur (8616-8622) and whole milk; mineral or other oils (8643 Stylet Oil) in combination with potassium bicarbonate (8595 MilStop); 8601 Sil-Matrix; 8625 Regalia; 8634 Actinovate; 8637 Serenade. Copper spray (8604) as a last resort.

Disease: Bacterial Wilt

Cultural control: Striped Cucumber Beetle is vector—control it; choose resistant varieties.

"The annual Fedco order is a family tradition."
 —Lauren Reding, Baltimore, MD

1729YB Young's Beauty (105 days) *C. p.* Unimpressed by 1708 Autumn Gold's "precocious yellow" gene? Don't care for its tendency to produce irregularly shaped fruit? Prefer a classic mid-sized open-pollinated pumpkin that usually ripens perfect brilliant deep orange globes? Try Young's Beauty, one of our most under-appreciated cultivars. Expect good production of uniform hard-skinned thick-fleshed 10–12 pounders that make good pies. *Caution: May not ripen in northernmost areas.* ③

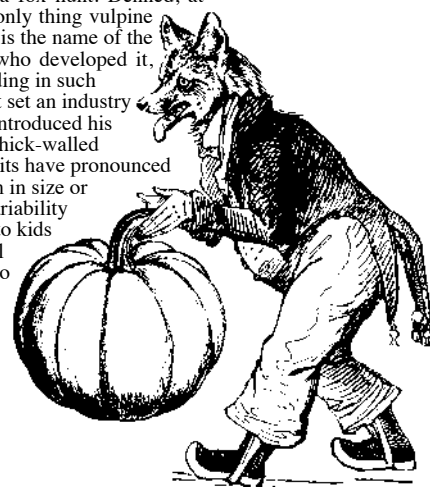
A=1/8oz, \$1.40 B=1/4oz, \$2.60 C=1/2oz, \$4.50
 D=1oz, \$7.50 E=4oz, \$20.00

1740CH Cheese (110 days) *C. mos.* Always exhibition-hall favorites, these handsome 6–12 lb wide-ribbed flattened tan fruits look like big wheels of cheese. Identified by Hedrick in *Cucurbits of New York* (1937) as "one of the oldest varieties cultivated in America," a distinctive group that has "remained remarkably stable." Introduced to commerce in 1807 by McMahon. Some folks call this variety Long Island Cheese because it was once the preferred pumpkin for pies in New York, New Jersey and on the island. Bright orange meat is coarse and quite fibrous, but its tender sweetness redeems its textural deficiencies and it does not deserve Hedrick's terse dismissal: "quality poor." Good for baking, deep cavity lends itself to stuffing. We have found it to be a dependable producer even in our climate and unmatched as a good keeper. ③

A=1/8oz, \$1.50 B=1/4oz, \$2.80 C=1/2oz, \$5.00
 D=1oz, \$8.00 E=4oz, \$22.00

1744TF Tom Fox (110 days) *C. p.* Employing neither hounds nor horses, seeking neither sport nor kill, our purchaser Nikos Kavanya has in recent years been on a fox hunt. Dened, at last! Actually, about the only thing vulpine about this jack-o'-lantern is the name of the New Hampshire farmer who developed it, and his craftiness in breeding in such sturdy stocky handles that set an industry standard when Johnny's introduced his pumpkin in 1994. These thick-walled 10–20 lb deep orange fruits have pronounced ribs. They are not uniform in size or shape, but perhaps that variability only adds to their appeal to kids and other Halloween thrill seekers. Rampant vines, so space accordingly. Be foxy and add this classic variety to your repertoire.

VVP ③ **NEW!**
 A=1/8oz, \$1.80
 B=1/4oz, \$3.50
 C=1/2oz, \$5.50
 D=1oz, \$8.00
 E=4oz, \$22.00
 K=1lb, \$76.00



1748CF Connecticut Field (115 days) *C. p.* Also known as Big Tom. Grown for jack-o'-lanterns and stock feed, gets 15–25 lb, sometimes more. Not uniform in size or shape. Heirloom grown by Native Americans, adopted by colonists before 1700, and a staple of 19th-century catalogs. Vick's offered for 10¢ an oz and 50¢ per lb in 1877. *Ripens for us in good years, but often we must pick green.* ③

A=1/4oz, 90¢ B=1/2oz, \$1.60 C=1oz, \$2.80 D=4oz, \$5.80
 E=1lb, \$20.00 K=5lb, \$95.00

Howden (115 days) *C. p.* For 40 years Howden's symmetrical fruits with hard ridged skin and thick flesh have so much set the standard for large round jack-o'-lanterns both for fresh market and shipping that they are now a New England tradition. Large spreading vines produce 4–6 deep orange fruits per plant, typically much more uniform than Connecticut Field while weighing 20–35 lb, often able to ripen fully in our climate. Developed by John Howden in the Berkshires of Massachusetts and introduced by Harris Moran in 1973. Tolerant to BLR.

1751HW Howden ②
 A=1/8oz, \$1.30 B=1/4oz, \$2.20 C=1/2oz, \$3.20 D=1oz, \$5.50
 E=4oz, \$11.00 K=1lb, \$38.00

1752HO Howden OG ICS-certified. ①
 A=1/8oz, \$1.50 B=1/4oz, \$2.70 C=1/2oz, \$4.50 D=1oz, \$7.50
 E=4oz, \$18.00 K=1lb, \$52.00

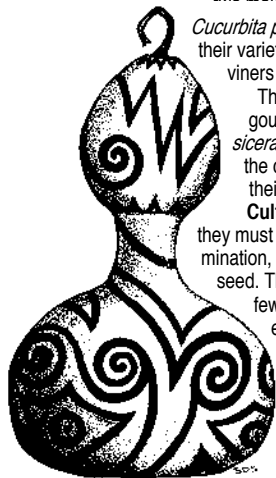
1757BM Big Max (120 days) *C. max.* These are big pumpkins. Not big enough to compete in giant-pumpkin contests (you'd need Dill's Atlantic Giant, not offered by us) but certainly sufficient for exhibiting in your county fair or for displaying as an awesome jack-o'-lantern. Typically weighs 50–100 lb and measures up to 70" in circumference! ②

A=1/4oz, \$1.20 B=1/2oz, \$2.20 C=1oz, \$3.80 D=4oz, \$8.50
 E=1lb, \$29.00

The word "orange" is derived from a Dravidian language, by way of Sanskrit and French. The use of the word to refer to a color came after the English-speaking world was introduced to the fruit. Prior to that event, the color orange was referred to as 'yellow-red' or 'red-yellow.'

GAMBOLING GOURDS

Ornamental gourds avg, 500 seeds/oz; Luffa avg 280 seeds/oz; Hardshell gourds avg 120-200 seeds/oz. All gourds are open-pollinated. Gourds come in



categories (Luffa is a third). The small ones are *Cucurbita pepo* var. *ovifera*, known as ornamental gourds for their variety of shapes, colors and surfaces. These vigorous vinerers will usually mature in our climate if direct-seeded.

The larger ones are *Lagenaria siceraria* or hardshell gourds, named from the Greek *lagenos*, 'a flask,' and *sicera*, 'an intoxicating drink.' *Lagenaria*, though lacking the color range of their smaller cousins, fascinate with their magical shapes.

Culture for *Lagenaria*: Because of their long season they must be started indoors in our climate. To improve germination, sandpaper or clip off the radicle end and soak the seed. They resent transplanting and will grow slowly for a few weeks. Once they take off, these rampant crawlers are noted for their enormous foliage, more velvety in texture than that of other cucurbits, and their large white almost luminous night-blooming flowers. Heavy feeders, they will take up huge amounts of garden space unless trellised. If you cut off the spent female flowers daily, they make an excellent, albeit malodorous, flowering vine.

1909DO Tennessee Dancing Gourd OG (93 days) *C. p.* var. *ovifera* Anyone who sees these tiny 2-3" adorable green-and-white striped bottle gourds falls in love with them. They generated quite a buzz at our Common Ground Fair booth exhibit. We received a nice letter from Junior Gordon of Primm Springs, TN, the original source for this delightful conversation piece. Gordon says these are better known as spinning gourds and advises us to select our seed crops for short, fairly thick straight necks and to rogue out those with the longer crooked necks that won't spin as well. To spin them "take the neck between your middle finger and thumb and snap your fingers with a quick action." Kids in Tennessee used to bring them to school as toys. Rampant vines are extremely prolific producers of the small fruits. Hard shells dry to tan color. MOSA-certified. ②

A=1/8oz, \$2.10 B=1/4oz, \$3.90 C=1/2oz, \$7.50 D=1oz, \$13.50
E=4oz, \$45.00

1912SM Small Ornamental Mix (95 days) *C. p.* var. *o.* Eight kinds of early-maturing types, with small spoon, bicolored pear, and small orange most prevalent. ②

A=1/8oz, \$1.70 B=1/4oz, \$3.20 C=1/2oz, \$5.20 D=1oz, \$8.80
E=4oz, \$30.00

1939PW Professional Small Warty Mix (95 days) *C. p.* var. *o.* A balanced assortment of flats, rounds, short pears, pears and spoons in a variety of solid, striped and bicolor patterns. Yellows, greens, oranges and whites make a bright display. We love them, warts and all. ②

A=1/8oz, \$1.70 B=1/4oz, \$3.20 C=1/2oz, \$5.20 D=1oz, \$8.80
E=4oz, \$30.00

Shenot Crown of Thorns (95 days) *C. p.* var. *o.* We have drop variety. No longer available.

1957AW Autumn Wings (100 days) *C. p.* var. *o.* These are to go the 1957 Cadillac was to cars. They have a double set of fins or wing; car makers claimed aerodynamic advantages for their design; the breeders make no such assertion. Both the gourd and the car are high spicuous. Autumn Wings' colors, a vivid mix of greens, yellows, cream whites, make them even more so. Some of these gourds are straight and others are curved. They vary in size, too, one third small, on medium and the remainder in the large 6-8" range. We stop claiming them to be the Cadillac of gourds, but bet they'll make roadside stand attraction. ②

A=1/8oz, \$2.20 B=1/4oz, \$4.20 C=1/2oz, \$7.00
D=1oz, \$13.00 E=4oz, \$47.00

How to Produce a Luffa Sponge

When luffas are ripe their skins turn brown and dry and stems turn yellow. Check your plants frequently and harvest only ripe gourds. Full-sized fruit that are still green produce soft, fine-textured sponges that don't last. After the first killing frost remove any nearly ripe gourds to a warm well-ventilated place to allow them to dry. Gourds left wet for long will readily discolor.

If the luffa has just ripened, gently squeeze and pop its skin. Break the blossom end cap and pull the vascular bundle (that's the sponge!) up the side of the gourd like a zipper. The sponge will pop out, wet and white. Quickly rinse it in water to prevent oxidation.

If gourds are too dry to pop the sponge out, ret them (thoroughly soak in water) for several days until the skin sloughs off leaving only the spongy fiber. After retting, shape and dry the sponge. Remove seeds either before or after retting. We found it easy to do before retting: cut open the larger end of the gourd and either shake or rinse out the seeds. If you wish to whiten the sponges, bleach by soaking either in a 10% bleach solution or in hydrogen peroxide. Rinse luffas thoroughly in clean water and dry before use.

1962LU Luffa (110 days) *Luffa aegyptiaca* May be more closely related to the cucumber than to the hardshell *Lagenaria*. Also known as Dishrag Gourd, dried and used for making bath sponges. Some folks pick them young, steam and panfry them. In addition to being a scrubber and a comestible, this versatile gourd has been used to make soundproof wall boarding, to insulate army helmets, to stuff mattresses and saddles and even to make filters for steam engines and diesel motors! *Caution: Luffa requires a long season. Start indoors and trellis the vines. We recommend trellising if you want your luffas to remain straight.* ②

A=1/8oz, \$1.50 B=1/4oz, \$2.50 C=1/2oz, \$3.80
D=1oz, \$6.40 E=4oz, \$16.00

Speckled Apple (110 days) *Lagenaria siceraria* We have dropped this variety. No longer available.

1965BO Baby Bottle OG (110 days) *L. s.* A mini-version of the bottle gourd with a shorter growing season. These gourds, averaging 2-3" in diameter and 4-6" long, make great ornaments. Sales have been slow so *this is the last year we will offer.* CCOF-certified. ②

A=1/8oz, \$2.20 B=1/4oz, \$4.00 C=1/2oz, \$7.00
D=1oz, \$12.00 E=4oz, \$45.00

1966LB Large Bottle or Birdhouse (120 days)

L. s. Rampant crawling vines produce large gourds with bulbous base and narrow neck, usually with a bulge at the stem end. Grow 14" tall and up to one foot in diameter. Green rind turns white or starts to brown upon maturity. When dried, make durable bottles or birdhouses. ②

A=1/8oz, \$1.60 B=1/4oz, \$3.00 C=1/2oz, \$5.00 D=1oz, \$7.50
E=4oz, \$22.00

1969SO Speckled Swan OG (120 days) *L. s.* Fairgoers have gawked at these show-stealers, whether in Jack Kertesz' demonstration gardens or at our booth or in the Hall, for many years, admiring Swan's beautiful dark green surface with very pale green 1" splotches that bleed like strokes from a paintbrush. Large round 8-10" base tapers into graceful long neck, sometimes straight, sometimes arched, capped by a small bulb near the stem that looks like a swan's head. CCOF-certified. ③

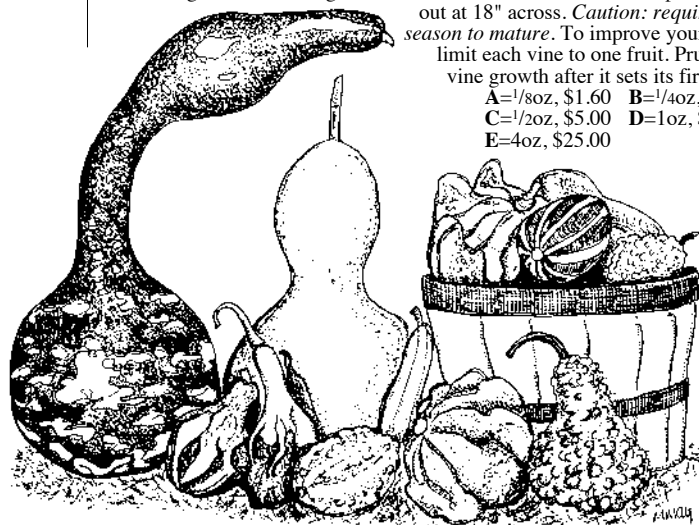
A=1/8oz, \$2.20 B=1/4oz, \$4.20 C=1/2oz, \$8.00 D=1oz, \$12.50
E=4oz, \$36.00

1974CC Corsican Canteen (125 days) *L. s.* Sets 3-6 fruits per plant, shaped like an old-fashioned canteen with height of 3 1/2" and a 7" diameter, some larger. Can be used to make lovely lidded bowls. Amy LeBlanc's exhibit at 2013 Common Ground was the best and largest of these I've ever seen. She starts them in her hoop house. Originally from Native Americans in New Mexico. ②

A=1/8oz, \$1.70 B=1/4oz, \$3.20 C=1/2oz, \$5.20 D=1oz, \$8.80
E=4oz, \$26.00

1990BS Bushel (135 days) *L. s.* Shaped like a large bowl with a pot lid on it. Can grow enormous given sufficient heat, but in Maine will probably max out at 18" across. *Caution: requires a long season to mature.* To improve your chances, limit each vine to one fruit. Prune to halt vine growth after it sets its first fruit. ②

A=1/8oz, \$1.60 B=1/4oz, \$3.00
C=1/2oz, \$5.00 D=1oz, \$8.80
E=4oz, \$25.00



Curing Lagenaria Gourds is Easy.

Hardshell gourds are 90% water at harvest. They need to be cured or dried, a slow process of evaporation through the outer shell, which is covered by a thin ivory-green skin. Curing can take 6 weeks to 1 year (average time 4 months) depending on gourd size, thickness of shell, weather and storage conditions.

Immature gourds (that have not developed a thick shell) will rot after harvest. Mature gourds are large and weighty. To cure, store off the ground in a well-ventilated room or unheated outbuilding. For a smooth beige surface, scrape off the outer skin after it loosens and darkens. (Freezing and thawing loosens the outer skin.) Outer skin, if left on, may become moldy; mold-patterned skin will dry to the gourd shell and can be sanded off, painted over or incorporated into the decoration.

CARROTS *Daucus carota*

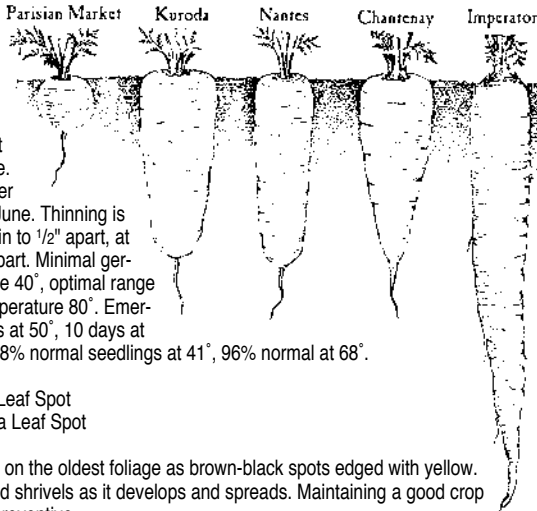
1/8 oz packet sows 35 ft; 1 oz, 280 ft. Carrots average 18,000 seeds/oz with significant variations among varieties.

Culture: Very hardy. Early carrots can be sown by late April. Can take up to 3 weeks to germinate; keep rows from drying out for faster emergence. Sow carrots for winter storage in mid-late June. Thinning is critical: At 3" high thin to 1/2" apart, at 6" thin again to 1" apart. Minimal germination temperature 40°, optimal range 60–85°, optimal temperature 80°. Emergence takes 17 days at 50°, 10 days at 59°, 6 days at 77°, 48% normal seedlings at 41°, 96% normal at 68°.

Diseases:

ALTS Alternaria Leaf Spot
 CLS Cercospora Leaf Spot
 P Pythium

ALTS shows up first on the oldest foliage as brown-black spots edged with yellow. Foliage blackens and shrivels as it develops and spreads. Maintaining a good crop rotation is the best preventive.



Open-pollinated CARROTS

2018TP Tonda di Parigi (55 days) A round Parisian-type carrot that we prefer to the old Thumbelina. At 1 1/2" Tonda is slightly longer than Thumbelina with deep orange color and improved taste. Tondas are best harvested when they are young and tender and very sweet. Enjoy them cooked to maximize their sweetness and to elicit their superb creamy texture. The easiest carrot to grow if you have heavy clay soil. 19th-century heirloom from Paris. Not for storage. © **BACK!**

A=1/8oz, \$1.90 B=1/4oz, \$3.60 C=1/2oz, \$7.00
 D=1oz, \$12.00 E=4oz, \$22.00

2024AM Amsterdam #2 (55 days) Amsterdam's slender tapered 6–7" roots are longer, less stubby and develop better color at a younger stage than Minicor's. Ideal for succession plantings of baby carrots throughout the summer, provided they are given adequate moisture. Not particularly sweet but with a carrot sharpness that leaves a pleasant taste sensation. Crisp and tender with a small core. Not for storage. ©

A=1/8oz, \$1.50 B=1/2oz, \$4.50 C=1oz, \$7.50 D=4oz, \$22.00
 E=1lb, \$80.00

2028CL Coral (55 days) Heron happened upon this hard-to-find Euro specialty carrot in a Spanish seed catalog, where it was mysteriously the only carrot variety offered. We found out why when we sent some trials in 2014 to Detroit's Lafayette Greens where it swept the hybrid and OP competition. Entirely coreless, of distinctive translucent pinkish-orange, Coral won again in our 2016 trial of potential Nelson replacements. Best picked promptly for tender finger-sized Early Nantes-type roots that taper to a semi-blunt tip. The mild sweetness is boosted by a notable aroma, described as "carrot perfume" by staff tasters. With the most upright tall tops of our summer carrot trial, Coral delivers a continental flair to your first picked bunches. © **NEW!**

A=1/8oz, \$1.40 B=1/2oz, \$4.50 C=1oz, \$6.00 D=4oz, \$13.00
 E=1lb, \$45.00 K=5lb, \$200.00

2042SN Scarlet Nantes (68 days) This old-time favorite Nantes variety with bright orange roots averaging 6–7" proves that good quality is not always expensive. Sweet with a small dark core. Received a high overall score in the 2005 Oregon State University trials. Has been our best-selling carrot in recent years, nearly 4,000 packets in 2016. ©

A=1/8oz, \$1.00 B=1/2oz, \$2.80 C=1oz, \$4.20 D=4oz, \$8.40
 E=1lb, \$21.00 K=5lb, \$98.00

2051FO Nantes Fancy OG (68 days) Once our best-selling carrot, this longtime customer favorite has been hard to find. Classy Nantes type grows uniform cylindrical 7" roots with unusually good interior color, crisp texture and fine flavor. Holds well and an excellent keeper, too. Outstanding quality for an open-pollinated carrot. Last offered by us in 2011, worth the six year wait, but seed is in short supply so order early. MT-certified. **BACK!** ©

A=1/8oz, \$2.20

2058RC Red Cored Chantenay (70 days) According to William Woys Weaver, this heirloom originated in France around 1879 and "needs no improvement." Produces 5–7" thick red-orange roots that have had excellent carrot flavor in our September taste tests. Dependable performer does well in heavy soils. The storage carrot of choice for Jay and Polly Armour of Four Winds Farm in Gardiner, NY. Devoted customers at their monthly winter markets esteem its taste. ©

A=1/8oz, \$1.00 B=1/2oz, \$2.80 C=1oz, \$4.20
 D=4oz, \$8.40 E=1lb, \$21.00 K=5lb, \$98.00

| Weight equivalents | |
|--------------------|---------|
| 1 gram = | .035 oz |
| 3 grams = | .106 oz |
| 6 grams = | .212 oz |
| 24 grams = | .851 oz |
| 120 grams = | 4.24 oz |
| 1/16 oz = | 1.77 g |
| 1/8 oz = | 3.55 g |
| 1/4 oz = | 7.09 g |
| 1/2 oz = | 14.2 g |
| 1 oz = | 28.4 g |

2060RO Rumba OG (72 days) Who will have this dance? Line-stocker extraordinaire Gary Athenian will. He calls Rumba "the best carrot I've ever grown." When he brought it to Nash's Organic Produce in Sequim, WA, they admired its crisp texture and adopted it as their favorite as well, no small distinction as they breed carrots, their most important crop. Last offered by Johnny's in 2005, Rumba has since been hard to find. A straight tapered 6–7" Nantes type that matures slowly and resists oversizing, it is great for fall harvest and winter storage. Its aromatic strong carrot flavor is admittedly not for everyone. Though Roberta also likes it, Gene and CR demur. But then again, not everyone can rumba. WA-certified. ©

A=1g, \$1.90 B=3g, \$4.50 C=6g, \$8.00 D=24g, \$15.00
 E=120g, \$60.00

2063YS Yellowstone (72 days) Yellowstone boasts a crisp clean flavor that has shown up well in our recent taste tests. Big-shouldered roots with large greenish-yellow cores grow up to 8" long, averaging 7". Productive in a wide variety of soils. Research shows that yellow carrots contain xanthophylls, pigments similar to beta carotene, that help develop healthy eyes and may help prevent lung and other cancers. Contract limits seed to a one-time use. ©

A=1g, \$2.00 B=3g, \$4.80 C=6g, \$8.50 D=24g, \$22.00
 E=120g, \$90.00

2068AO Atomic Red OG (74 days) This imperator type is really red with a hint of purple on the outside of the 4–6" cylindrical roots. Slice it open to rings of color, the red ring giving way to a deep orange interior with a lighter core. Even the stems and tops show red. Roots taste mild and sweet when raw. Keeps its color when cooked and develops a yummy carrot sweetness with no harshness. Taste is pure bonus. Color packs the wallop here, color that could make your sales explode. Susceptible to P. Consult our website for availability of other sizes. CCOF-certified. ©

A=1g, \$1.90

2073SK Shin Kuroda 5"

(75 days) Over the years

we've enjoyed several strains

of the stump-rooted Japanese-type carrots

that are so popular in Asian markets.

Shin means 'new' in Japanese. Tender sweet

Shin Kuroda scored high in our October taste

test, and also impressed us with its bright orange

color. These Kurodas, developed from the old Chantenay type, do well in a wide range of soil and weather conditions and store well. ©

A=1/8oz, \$1.10 B=1/2oz, \$3.00 C=1oz, \$4.80 D=4oz, \$9.20
 E=1lb, \$24.00 K=5lb, \$110.00

2076DO Danvers OG (75 days) The original Danvers Half-Long was developed by market gardeners in Massachusetts in 1871. This modern improvement features 7" conical orange roots that taper to a point. Easier to grow in heavy soils than the longer more refined types. Broader at the top and more fibrous than the Nantes varieties. Outstanding for cooking and winter storage. CCOF-certified. ©

A=1/8oz, \$1.30 B=1/2oz, \$4.20
 C=1oz, \$8.00 D=4oz, \$17.00
 E=1lb, \$50.00 K=5lb, \$240.00

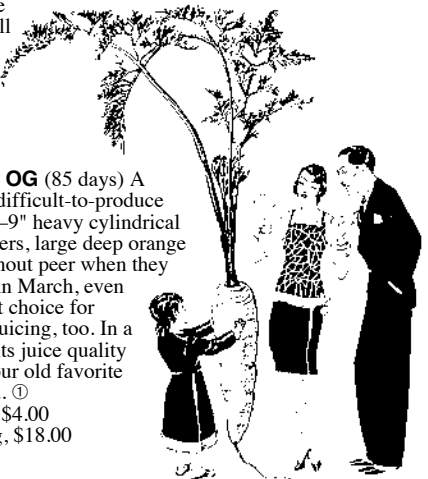
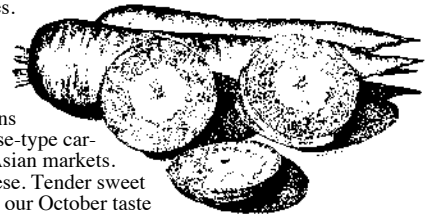
2078JD Jaune du Doubs (78 days) I like this 19th-century French heirloom best of all the yellow carrots. Holli Cederholm, another admirer, called it "a mainstay in her open-pollinated rainbow carrot bunches," and reported it performed beautifully on her heavy and rocky new ground—with fewer culls than 2076 Danvers or Dragon. Not everyone agrees. Some are put off by its sometimes rough unrefined appearance and variable taste and texture. We advise working your seed bed well before sowing to avoid forked or shallow roots. The plants have the kind of dense rampant wildness that has been tamed out of the newer hybrids, so thin them more rigorously than other varieties. Well-grown they produce smooth conical 5–8" yellow roots, showing slight green shoulders and good core color. Better flavor cooked than raw and retains good color. Cederholm reported the roots stayed crisp and crunchy in storage for tri-colored carrot slaw all winter. ©

A=1/8oz, \$1.60
 B=1/2oz, \$5.00
 C=1oz, \$8.00
 D=4oz, \$26.00
 E=1lb, \$100.00

2079KO Scarlet Keeper OG (85 days) A stalwart storage carrot and difficult-to-produce biennial seed crop. These 7–9" heavy cylindrical roots with broad red shoulders, large deep orange cores and blunt tips are without peer when they come out of the root cellar in March, even though they are not our first choice for fresh fall eating. Good for juicing, too. In a taste test at our warehouse its juice quality was comparable to that of our old favorite

2086 Mokum. MT-certified. ©

A=1g, \$1.60 B=3g, \$4.00
 C=6g, \$7.00 D=24g, \$18.00
 E=120g, \$50.00



Hybrid CARROTS

1 gram packet has more than 600 seeds and sows about 10 ft.

Pelleted carrot seed: Pelleted carrot seed

sold well last year, so we are back with three variety choices.

Pellets can save time-consuming thinning for both home gardeners and commercial operations. They can be sown by hand or by using precision seeders. Our carrot pellets are size 11.5. Pellets have one major drawback: the process shortens the viable life of the seed. Buy only as much pelleted seed as you need for this season. It will not hold over well. Our pellets

use an inert clay coating that is in compliance with NOP standards. This year we are offering pelleted seed packets by weight rather than by count. The A-size packet at 1.2g will contain ~90 pellets and sow around 7.5' at 1" spacing. The B-size packet at 3g will contain ~225 pellets and sow almost 19'. Keep pellets cool and dry prior to planting and maintain steady soil moisture during the germination period. **At press time pellets had not yet arrived at the warehouse. To order pelleted carrot seed please consult our website fedcoseeds.com for availability, sizes and prices.**

Mokum (48 days) Arguably the tastiest carrot for fresh eating in late spring and summer. Repeat winner of our summer taste tests. Mokum's earliness, slenderness and sweetness transcend its flaws. Blunt Amsterdam type that sizes extremely quickly with short weak tops, brittle and not machinable. Should be harvested at 5-6" before the roots push out of the ground and develop green shoulders. Although not a versatile full-season carrot, Mokum merits succession planting so you can enjoy it young throughout the summer. Always the first to disappear from our spring patch. Not for storage. Contract limits seed to a one-time use. Susceptible to ALTS at our Colrain, MA, plot in 2009 and 2012 but not in 2010.

2086MK Mokum Unpelleted ④

A=1g, \$2.10 B=3g, \$5.20 C=6g, \$8.40
D=24g, \$27.00 E=120g, \$120.00

Mokum Pelleted Consult our website for availability and prices. ④

Napoli OG (55 days) A favored variety for Eliot Coleman's famous candy carrots overwintered in unheated greenhouses. Blunt Nantes type grows 7-8" cylindrical roots with strong medium-sized dark green tops. Crispy, snappy, sweet and juicy with a medium core. "Extra crunchy," rated one of our tasters. Also grows rapidly when sown outdoors in spring and makes a good early bunching carrot. Suitable for fresh market or storage. Good performer in high tunnels. Contract limits seed to a one-time use. OT-certified. ④

2090NO Napoli Unpelleted OG OT-certified. ④

A=1g, \$2.70 B=3g, \$7.50 C=6g, \$12.50
D=24g, \$42.00 E=120g, \$185.00

Napoli Pelleted OG Consult our website for availability and prices. ④

Nelson (56 days) Our supplier has dropped this fine variety. Unfortunately it is no longer available.

Yaya OG (58 days) Nantes type. Tom Vigue says "unbeatable as a summer carrot." Not yet a grandmother in the carrot world, relatively new Yaya is in the same quality class with Mokum and Nelson, a standout three straight years in our observation plots. In his stale-bed method carrot intensification project in 2012 in Monroe, ME, grower Mark Fulford achieved a yield of 254 lb from a 150 sq ft 4-row carrot bed using Yaya, more than 80% #1s. That averages out to 73,000 lb/acre, more than double the average carrot yield according to the USDA. Averaging 6", Yaya is slightly shorter-rooted than Nantes Fancy but more flavorful. A little smoother and more uniform than Nelson. Strong tops, good for bunching. Crisp clean sweet carrot flavor. Can be used for baby or full-sized carrots. Showed some tolerance to ALTS in our 2009 MA plot. Contract limits seed to a one-time use. OT-certified. ④

2092YO Yaya Unpelleted OG

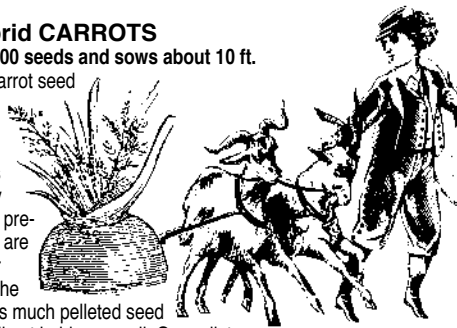
A=1g, \$2.20 B=3g, \$6.00 C=6g, \$10.50 D=24g, \$32.00
E=120g, \$140.00

Yaya Pelleted OG Consult our website for availability and prices.

2094SS Sugarsnax (68 days) If you have the tilth, we have the carrot. Tom Hodgson of Wishetwurra Farm, sent us a picture of his 15-incher. We thought an Emperor carrot with flavor was an oxymoron until we met Sugarsnax, a fresh-market variety with long slender beautiful deep orange roots ideal for bunching. In average conditions more likely to grow 9" than 15. Outstanding in trials and taste tests, its tender sweetness kept us coming back for more. Sugarsnax is a Bayer variety. Bayer is buying out Monsanto so this is our last year to offer. Tolerant to ALTS, CLS and P. ⑥

A=1g, \$1.70 B=3g, \$4.00 C=6g, \$7.50 D=24g, \$20.00
E=120g, \$80.00

The latest in carrot research suggests that orange carrots were developed in the 15th century, belying the story that many of us have heard about the orange carrot being developed to honor William of Orange in the 16th century. However, the orange carrot was subsequently politicized, as it became an affordable (as compared to oranges) symbol of support for the House of Orange. An old Dutch saying to express support for the House of Orange: Orange in the heart, said the farmer, and he put one yellow carrot (eene gele peen) on his hat. When in 1785, the House of Orange briefly ceded control of the Hague to the revolutionary force known as the Patriots, the color orange was banned, and it was decreed that carrots could not be displayed in the marketplace unless only the green tops were visible.



Jeanette OG (50 days baby, 70 days mature) Dropped by our supplier so no longer available.

2096PH Purple Haze (70 days) Again 2006 AAS winner Purple Haze outperformed Purple Dragon in our trial. Enhanced by a texture almost as refined as the best orange carrots, it has none of Dragon's harshness. Purple with orange stretch marks and a vivid orange core, Haze will really draw crowds to your stand. Its raw flavor, rated average, improves with cooking, though color fades. The 7" tapered roots store fairly well. This first purple Emperor-type carrot may make you want to kiss the sky! Contains 0.5% orange off-types. Contract limits seed to a one-time use. ④

A=1g, \$2.50 B=3g, \$6.80 C=6g, \$11.50 D=24g, \$38.00
E=120g, \$170.00

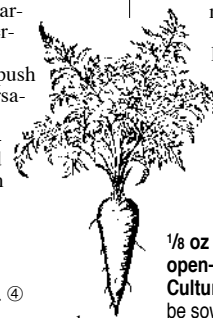
2097WS White Satin (70 days) Satin, a Nantes-Emperor cross, is by far the best white carrot we've trialed. Hillary Nelson of Canterbury, NH, says its classic 8" roots are "some of the most perfect looking carrots I've grown—straight and long," with the ideal carrot shape in a pleasing creamy white. Sweet and crunchy when eaten raw, it has none of the wild carrot taste or hairiness typical of other white carrots. When cooked it is sweet and mild with a smooth texture. Develops 1" green shoulders when mature. Medium core. Contains 2% orange off-types. Contract limits seed to a one-time use. ④

A=1g, \$2.80 B=3g, \$7.20 C=6g, \$12.00 D=24g, \$40.00
E=120g, \$180.00

2099OR Over the Rainbow Mix (48-75 days) If there's a better carrot mix than this one, it must be somewhere over the rainbow, way up high.

We took a good formula called Rainbow Mix, especially strong in the lighter shades of yellow and orange, and boosted it with our own choice of dark orange, purple and red varieties. In doing so, we sacrificed some of the uniformity our European supplier maintains, so not all the roots are perfectly slender and tapered, nor will they all mature at the same time. But oh the colors! Contract limits seed to a one-time use. ④

A=1g, \$2.70 B=3g, \$7.20 C=6g, \$12.00 D=24g, \$40.00
E=120g, \$180.00



BEETS Beta vulgaris

1/8 oz packet sows 20 ft; 1 oz, 160 ft. All

open-pollinated except 2105 and 2121.

Culture: Hardy and easy to grow. Can

be sown almost as soon as ground can be worked. Thin by harvesting greens with baby beets. Beets left to mature to full size should be at least 3" apart.

Minimum germination temperature 40°, optimal range 60-85°, optimal temperature 77°. Emergence takes 17 days at 50°, 10 days at 59°, 5 days at 77°, highest % of normal seedlings at 77°.

Disease: CLS Cercospora Leaf Spot

CLS looks like someone shot a series of small target-like circles in the foliage. Prolonged periods of rainfall and high humidity exacerbate this disease. In serious cases the spots darken and extend. Rotating crops, removing plant debris, and wider spacing to ensure adequate air circulation are preventive measures.

Scab, the same disease that afflicts potatoes, causes rough brown spots on the skin. Adequate irrigation is a preventive.

2105RB Robin (40 days) F-1 hybrid. Debuted in 2016 with good sales. Of baby-beet class and short-top type, Robin's vigor and health put wimpy competitor Babybeat to shame. This Boy Wonder's 10" tops show nice contrast between dark red stems and disease-resistant dark green leaf. Add deep red 1-2" round beets, and Robin packs a visually powerful punch, I mean bunch, at market. Even better, its uniformity and ability to hold size makes harvesting a mess of beets quick and easy. True to New England tradition, I steamed mine up whole, tops and bottoms. Holy Diminutive Delights! Again besting bland Babybeat, Robin's full sweet beet flavor and fine-grained solid red interior was a revelation in taste and texture. Bag tag limits seed to a one-time use. ⑤

A=1/8oz, \$1.60 B=1/2oz, \$3.00 C=1oz, \$5.00 D=4oz, \$12.00
E=1lb, \$44.00

Early Wonder Tall Top (48 days) The beet that can't be beat in our customers' estimation, loved by commercial growers and home gardeners alike. We sell more than 5,000 packets per year. Selected for earliness from Crosby's Egyptian and introduced in 1911. Quick emergence in cold soil and attractive purple tops make Wonder the choice for early beet greens and bunching beets. In their 1916 catalog F.H. Woodruff & Sons of Medford, CT, claimed to be the largest beet-seed growers in the U.S. and the originators of Early Wonder.

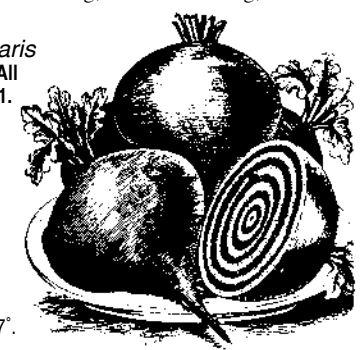
2108EW Early Wonder Tall Top ②③

A=1/8oz, 90¢ B=1/2oz, \$1.40 C=1oz, \$2.50 D=4oz, \$4.40
E=1lb, \$11.00 K=5lb, \$50.00

2109WO Early Wonder Tall Top OG

CCOF-certified. ②③

A=1/8oz, \$1.10 B=1/2oz, \$2.00 C=1oz, \$3.80
D=4oz, \$9.00 E=1lb, \$28.00 K=5lb, \$110.00



2121RO Red Ace OG season beet with purple to uniformity and perfect sh but more refined. We are be any early backorders. one-time use. Tolerant to

A=1/8oz, \$2.20 B=1/2oz, \$10.80
C=1oz, \$10.80 D=4oz, \$128.00
E=1lb, \$128.00

2124AB Albino (50 day) Too many white beets are either insipid sugar-beet types or, even worse, bitt hell rides. In stark contrast cooked texture is firm w coarseness, and its pleasur even-handed mix of medi and mild beet taste. Roast deepens that balance. Wit light green leaves and ste Albino can be harvested c and tender white baby roo cooks nearly twice as fast Albino matures with clas hill the soil around the ro shoulders. *This will be on unless sales improve.* ②

A=1/8oz, \$1.80 B=1/2oz, \$9.00
C=1oz, \$9.00 D=4oz, \$100.00
E=1lb, \$100.00

2128GO 3 Root Grex Alan Kapuler at work, thi three heirlooms: Yellow l Egyptian and Lutz Salad me and continues to get r a term from orchid breedin ation within this gene po also means more disagree ations than for most of o have noticed the extent of and the flavor improve. Tinct colors in this gene p with some orange in it, a beautiful iridescent orang by the unusual vigor, glo of these gradually tapered Lutz influence manifests as 3 1/2" across and 7-8" lous greens. CCOF-certifi order early. ①

A=1/8oz, \$2.00 B=1/2oz, \$5.20

2129LO Golden Grex

3 Root Grex in 2004, we loved its golden strain so much that we decided to select it out. It debuted in our catalog in 2009, and we quickly sold out of our five pounds of seed. What with the vagaries of biennial seed production, it was seven long years before we had it to offer again. This time our appreciative customers gobbled up more than 50 lb of seed. Those who love 3 Root Grex will be utterly enchanted. Golden Grex has Lutz in its parentage, as manifested by its green tops, lush growth, somewhat elongated Lutz shape and enormous roots that remain mild and sweet even as they grow up to 6-7" long and 3 1/2" wide. Roots are golden orange with a blushed orange hip on the top of the beet. When cut open some, but not all, interiors will have beautiful alternating concentric rings of yellow and red similar to a Chioggia. The stems retain some golden coloration. *Only 14 lb. of seed on hand; get it while you can.*

MT-certified. ①

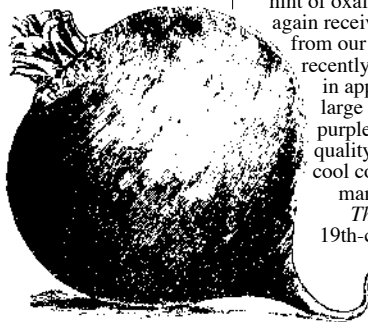
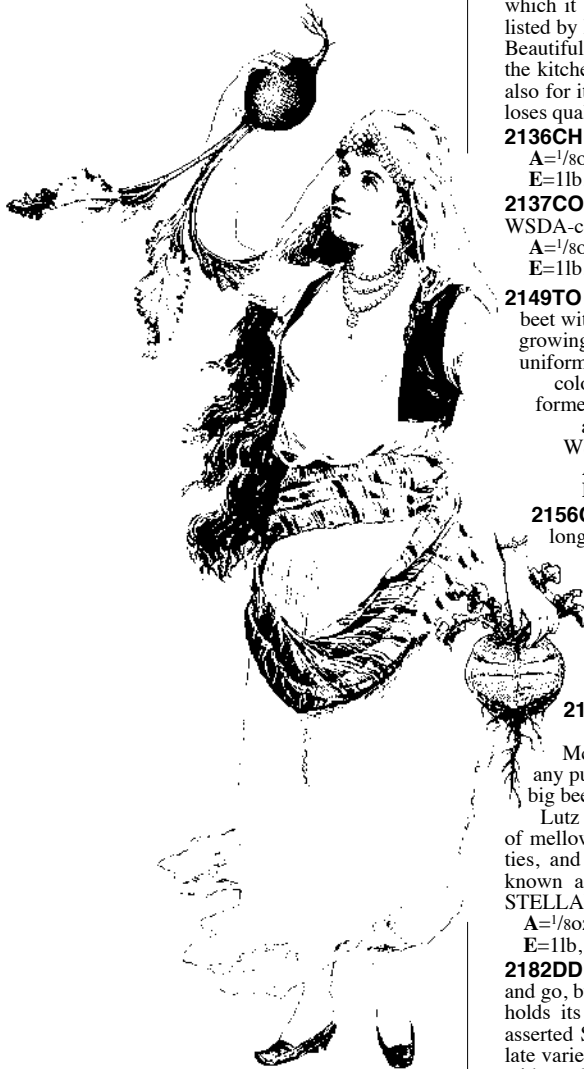
A=1/8oz, \$2.00 B=1/2oz, \$5.20

2130BD Boldor (55 days) Boldor's strong germination and vigor roars to life more quickly than the other yellow beets, making it easier to grow, especially under stressful conditions. Its excellent uniform round rose-gold roots have duped many into mistaking it for a hybrid. When cooked, Boldor's meat becomes fully light orange with no striations, a blend of carrot sweetness and mild beety depth. Touchstone's flesh color may have more pop, but many of us favored Boldor in taste tests. And it's hard to top its tops:

Boldor has healthy short upright light green tops with gold stems and veins. Contract limits seed to a one-time use. ④

A=1/8oz, \$2.20
B=1/2oz, \$6.60
C=1oz, \$11.50
D=4oz, \$38.00
E=1lb, \$140.00

Betalains lend a super-saturated purplish-red hue to beets, chard, rhubarb, spinach and amaranth (especially 4835 Hopi Red Dye amaranth). The golden-orange color of some beets and chard is also due to betalains. While unstable when exposed to light, pigment extracted from beets is used in some natural food-coloring applications, including ice cream, candies and processed meat. Stirring beet juice into icing makes for brilliantly pink Valentine's Day cookies.



Chioggia (55 days) Also known as Bassano, for the Venetian hill town in which it originated. Has been cultivated in the States since the 1840s, was listed by Fearing Burr in 1863, and offered by Vick's for 75¢ per lb in 1877. Beautiful when sliced, this heirloom home-garden type attracts attention in the kitchen with its alternating interior rings of pink and white. Noteworthy also for its light red exterior color, green tops and exceptional sweetness. It loses quality when it gets large. Bag tag limits seed to a one-time use.

2136CH Chioggia ②

A=1/8oz, \$1.10 B=1/2oz, \$2.00 C=1oz, \$3.80 D=4oz, \$9.00
E=1lb, \$26.00

2137CO Chioggia Guardsmark OG We're overstocked. Bargain prices. WSDA-certified. ⑤

A=1/8oz, \$1.80 B=1/2oz, \$3.50 C=1oz, \$6.00 D=4oz, \$20.00
E=1lb, \$78.00

2149TO Touchstone Gold OG (55 days) A refined and reliable golden beet with long attractive green tops, Touchstone takes the guesswork out of growing golden beets. Market growers love its dependable germination and uniformly round roots that resist zoning. Like other golden beets, retains its color when cooked and has the sweet flavor prized by aficionados. Performed well even when overcrowded in my trial. We are overstocked and are continuing our sale prices. Bag tag limits seed to a one-time use.

WSDA-certified. ⑤

A=1/8oz, \$1.80 B=1/2oz, \$5.50 C=1oz, \$9.00
D=4oz, \$32.00 E=1lb, \$115.00

2156CY Cyindra (56 days) Also known as Forono and Formanova, a long smooth regular cylindrical beet, growing to 7", dark red, sweet and beety. Highly marketable and not at all woody, in the words of one trialer, "a fine all-around beet suitable for baking, cooking, and pickling." Roberta rates them the darkest and least fibrous of our beets. Roots will push up out of the ground and develop rough shoulders. Heirloom from the 1880s, originally from Denmark. ②③

A=1/8oz, 90¢ B=1/2oz, \$1.60 C=1oz, \$2.80
D=4oz, \$5.50 E=1lb, \$17.00 K=5lb, \$80.00

2170LO Lutz Green Leaf OG (60 days) For some years after Lutz became crossed up, true seed was hard to find. Insist on the real McCoy: you'll find it here. True Lutz sports glossy green tops without any purple. Though the roots will never win any beauty contests, bake the big beets for about an hour to enjoy a very special sweet treat. You'll have Lutz of luck getting them to grow lustily if you provide them with plenty of mellow compost, sow your seeds further apart than for other beet varieties, and thin the roots to 4" apart. Heirloom variety from Europe, also known as Winter Keeper, is the best beet to grow for winter storage. STELLAR-certified. ①

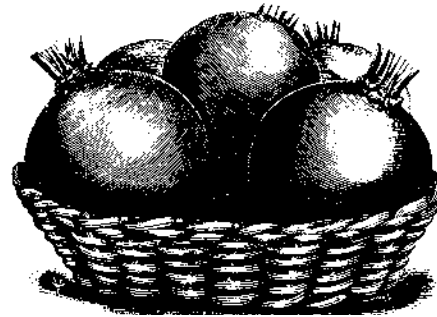
A=1/8oz, \$2.20 B=1/2oz, \$8.00 C=1oz, \$14.00 D=4oz, \$45.00
E=1lb, \$160.00

2182DD Detroit Dark Red Short Top (60 days) "New varieties come and go, but the Detroit Dark Red, year after year maintains its popularity and holds its place right at the top of the list of good midseason varieties," asserted Stark Bros. catalog in 1921. Introduced 1892 and still the standard late variety for home gardeners and canners. Globular smooth uniform beets with tender oxblood-red flesh. Among the several strains of this century-old variety, this one with short tops had the best roots in our evaluation. ③

A=1/8oz, 90¢ B=1/2oz, \$1.40 C=1oz, \$2.50 D=4oz, \$4.40
E=1lb, \$13.50 K=5lb

Bull's Blood (60 days)

Prized for its spectacular leaves, not its rough flat tened globe-shaped root Runaway winner of the varieties in our beet great trial years back, sweet and nutty with never a hint of oxalic aftertaste, again received high praise from our tasters more recently. Also a win in appearance, with large glossy reddish-purple leaves. No bull, it holds quality all summer, with color intensifying as it grows, especially under cool conditions in fall or under winter cover. Bull's Blood is Eliot Coleman's red leaf of choice for winter harvest salad mixes (see p. 230 of *The Winter Harvest Handbook 9527*). Old variety; its name hints of 19th-century origins when beets were known as blood turnips. Selected around 1840 from the French variety Crapaudine for darkest-colored leaves. Bag tag limits seed to a one-time use.



2186BB Bull's Blood ②

A=1/8oz, \$1.10 B=1/2oz, \$2.20 C=1oz, \$4.00
D=4oz, \$9.00 E=1lb, \$30.00

2187BO Bull's Blood OG An improved strain with nice dark foliage, tender and sweet. WSDA-certified. ⑤

A=1/8oz, \$1.80 B=1/2oz, \$4.00 C=1oz, \$7.50
D=4oz, \$19.00 E=1lb, \$70.00

RADISHES *Raphanus sativus*

$\frac{1}{8}$ oz packet sows 12½ ft; 1 oz sows 100 ft. Radishes average 2,500 seeds/oz.

Culture: Minimum germination temperature 40°, optimal range 55–85°, optimal temperature 85°. Emergence takes 11 days at 50°, only 4 days at 68°, 76% normal seedlings at 50°, 97% normal at 59°.

Disease: FY Fusarium Yellows



Summer RADISHES

All open-pollinated except 2212 Gloriette and 2243 Cheriette.

Thanks to Bryan O'Hara of Lebanon, CT, for suggesting that hybrid red round radishes are "significantly more consistent and higher yielding than the open-pollinated ones." This has proved true in our subsequent radish trials.

Culture: A favorite for children's gardens because quick and easy to grow with minimal fertility requirements.

Summer radishes may be sown almost as soon as the ground can be worked in the spring. They emerge rapidly and grow quickly for a good fresh spring food. Thin to at least 2" for attractive uniform roots. They develop more pungency in hot temperatures and dry conditions

than in cool moist weather. Most are ready for harvest at about the size of a half dollar and will rapidly get woody if allowed to grow much larger.

Culinary: Parboil the greens and roots separately, then eat them together as very early spring salad. And the pot liquor, mmmmm...

Note: Cannot ship greater than half oz. packets of radishes to the Willamette Valley due to quarantine.

2212GL Gloriette (24 days) F-1 hybrid. Second out of the gate in my 2013 trial, close behind Rover. Bright red and globe-shaped, all ten specimens in my sample were acceptable and eight of them marketable. The snow-white flesh was crisp, mild and juicy on June 12 after a period of cool rains. By the solstice, with the onset of warmer weather, it had developed more heat. Strong medium-sized tops good for bunching. Good shelf life after harvest. Overstocked; prices slashed. Bag tag limits seed to a one-time use. Tolerates FY. ☉

A=1/8oz, \$1.40 B=1/2oz, \$2.80 C=1oz, \$4.50
D=4oz, \$15.00 E=1lb, \$50.00

2214CB Cherry Belle (25 days) A good smooth red-skinned bunching radish making balls $\frac{3}{4}$ " across with firm white flesh. Some variation in our observation plots. Bag tag limits seed to a one-time use. 1949 AAS. ☉

A=1/8oz, 90¢ B=1/2oz, \$1.50 C=1oz, \$2.20
D=4oz, \$3.80 E=1lb, \$12.00 K=5lb, \$50.00

2224EE Easter Egg (25 days) These good-sized delicious radishes do not become woody, hollow or too hot. Nor do they bolt easily. Kids and adults love this fascinating blend with shades of pink, purple, red, violet and white. Always our most popular radish among home gardeners and favored by market growers for bunching. Bag tag limits seed to a one-time use. ☉

A=1/8oz, \$1.20 B=1/2oz, \$2.20 C=1oz, \$3.30
D=4oz, \$7.20 E=1lb, \$24.00

2234CH Champion (25 days) Smooth scarlet roots with firm mild flesh grow quickly to edible size. Crunchy and juicy. 1957 AAS. Some variation in our observation plots, but one customer said "best radish I've grown in 40 years." Do not crowd. Thin, thin! ☉

A=1/8oz, 90¢ B=1/2oz, \$1.40 C=1oz, \$2.20
D=4oz, \$4.50 E=1lb, \$12.50 K=5lb, \$60.00

2240HS Hailstone (25 days) The only hailstone we want to see on the farm. Vaughan, in 1904, called it "the quickest growing radish on record," and described it as round, smooth, snowy-white with a short tender taproot. Produces crisp juicy roots 1" in diameter that hold well and have some heat. Unusually small foliage but intolerant to crowding. ☉☉

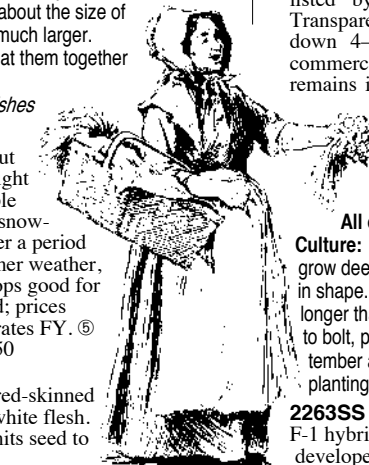
A=1/8oz, \$1.20 B=1/2oz, \$2.20 C=1oz, \$4.20
D=4oz, \$10.50 E=1lb, \$38.00

2243CT Cheriette (26 days) F-1 hybrid. Vibrant scarlet skins with crisp sweet white flesh. Sizing up more slowly than 2212 Gloriette, they showed the best field-holding quality in the trial and had the sweetest flavor with a mild tang. I found all ten specimens in the sample acceptable, and nine of them sufficiently uniform to be marketable. Round balls with the faintest tendency toward oval. A higher yielder and stands heat better than any of our open-pollinated selections. Short tops. Bag tag limits seed to a one-time use. ☉

A=1/8oz, \$1.70 B=1/2oz, \$3.20 C=1oz, \$6.00
D=4oz, \$20.00 E=1lb, \$75.00

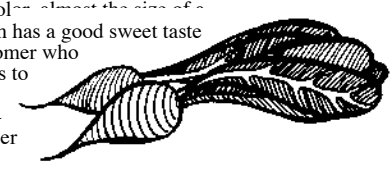
2248FB French Breakfast (26 days) Favored in Paris markets since before 1879, and our best-selling radish in the larger sizes. "A medium-sized radish, olive-shaped, small top, of quick growth, very crisp and tender, of a beautiful scarlet color, except near the tip, which is pure white. A splendid variety for the table, on account of its excellent quality and its beautiful color." —From D.M. Ferry & Co's Descriptive Catalog, 1902. Gets pithy earlier than many others. Bag tag limits seed to a one-time use. ☉

A=1/8oz, \$1.00 B=1/2oz, \$1.50 C=1oz, \$2.50 D=4oz, \$6.50
E=1lb, \$18.00 K=5lb, \$80.00



2253PO Plum Purple OG (26 days) This popular plum-colored round radish is very uniform, true to color. Almost the size of a ping-pong ball. Crisp white flesh has a good sweet taste with only a little heat. One customer who grows radishes under row covers to avoid root-maggot damage calls Plum Purple the radish most tolerant to slightly shaded row-cover conditions. OT-certified. ☉

A=1/8oz, \$1.60 B=1/2oz, \$4.50 C=1oz, \$8.00 D=4oz, \$25.00
E=1lb, \$92.00



2257ZT Zlata (30 days) A new color in summer radishes; these shimmering yellowish-tan russeted medium-sized beauties from Poland starred in our MA trial. Crunchy and crispy white interiors, spicy but not overwhelming, good fresh and even better braised. Its light-textured leaves make good young greens. Did not bolt or split and held quality even in all the June 2009 rains. Perfect for bunching. ☉

A=1g, \$1.30 B=4g, \$4.00 C=14g, \$8.20 D=28g, \$14.00
E=112g, \$48.00

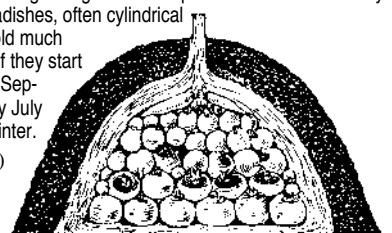
2262WI White Icicle (30 days) Also known as Lady Finger, an heirloom listed by Fearing Burr as White Naples, White Italian and White Transparent. Firm tender all-white roots for the home garden will grow down 4–6" in all but the heaviest soils. Also used for bunching by commercial growers. Mild if harvested when young and slender, and remains in good eating condition longer than most other summer radishes. Juicy and somewhat spicy. Bag tag limits seed to a one-time use. Summer sale is still on. ☉

A=1/8oz, \$1.00 B=1/2oz, \$1.80 C=1oz, \$2.40
D=4oz, \$6.00 E=1lb, \$13.00 K=5lb, \$60.00

Winter RADISHES

All open-pollinated except 2263, 2277, 2281 and 2285

Culture: Winter radishes are slower-growing than the quick summer kind. Many grow deeper roots than summer radishes, often cylindrical in shape. Thin to 6" apart. They hold much longer than summer radishes but if they start to bolt, pinch off the tops. Ideal in September and October from an early July planting, and can be stored for winter.



2263SS Saisai Leaf (35 days)

F-1 hybrid. An Asian radish developed primarily to provide leaves for salads, stir-fries and pickling. Harvest the juicy pale green succulent leaves when they are young and tender. Quick growing and slow to bolt. Can be allowed to grow full-sized daikon roots for a dual use. The roots are plumper, slightly shorter and milder than Shinden Risoh with a texture that pleased Clayton Carter of Fail Better Farm. They will keep all winter in the root cellar. Plants can be densely sown if grown only for their leaves. Seed in short supply. Check our website for availability and price for larger sizes than A. ☉

A=1/8oz, \$1.50

2264RT Rat-tail (50 days) Grown for its tangy seed pods, not its roots. William Woys Weaver called it "the Don Juan of radishes" because it so readily crosses with all others. Introduced from Japan in 1866-67 by Gregory. Attracts butterflies and other pollinators, worth growing even if you don't want to consume its pungent pods. Because these often grow as long as rat's tails and almost as fibrous, garden writer Barbara Damrosch advises harvesting them at "skinny bean size like a French filet bean" for maximum tenderness. The immature purplish-green pods are a delicacy in India and Asia, adding a mustardy zing to salads, stir-fries and other dishes. Mustard and radish plants will grow to 5' and branch out as they set seed, so give them plenty of room. Stake or trellis them for ease of picking; tomato cages work well. Your objective is not a small root, but a generous supply of pods. ✨ ☉

A=1/8oz, \$2.00 B=1/2oz, \$7.00 C=1oz, \$13.00

2265WR Watermelon (55 days) A welcome addition to any winter vegetable collection, these radishes will please with their consistent sweet tender flesh and brilliant color display. As the name implies, Watermelon reveals its sweet smooth bright rose flesh once you slice through the green and white skin. Growing to a robust 2½" diameter in just 45 days, these precocious winter keepers are best suited for a mid-late July sowing. At full maturity, the attractive 4" long oblong roots will store for months in the root cellar and keep their vibrant colors even when cooked. Selected from among 6 strains for their uniform coloring and daikon leaves. A real treat sliced, topped with farm butter and a pinch of sea salt. "Fast and delicious" sums CT market grower Bryan O'Hara. ☉

A=1/8oz, \$1.20 B=1/2oz, \$2.20 C=1oz, \$4.20 D=4oz, \$10.50
E=1lb, \$38.00

2266MB Munchener Bier (55 days) The perfect accompaniment to a good dark beer. Germans traditionally serve these mildly pungent large white tapered roots sliced thin and salted to go down with their brew, but the radishes are equally good sautéed and then salted. Gives a double harvest because the tender 2–3" aerial seedpods are good in salads and stir-fries. ☉

A=1/8oz, \$1.50 B=1/2oz, \$5.00 C=1oz, \$9.00 D=4oz, \$25.00
E=1lb, \$80.00

2267GM Green Meat (55 days) Unique miniature daikon radish with striking lime-green flesh grows 6–9" long and 1–3" wide. The above-ground exposed shoulders turn a deep green while the tips remain white. Fine-grained, crisp and sweet. Carter says it has a "distinct green-apple flavor." Used in Asia for salads, cooking and pickling. David Nonnenmacher suggests trying a slice on homemade bread slathered with butter. Green Meat and **2268 Misato Rose** keep in his root cellar until May. ①

A=1/8oz, \$1.80 B=1/2oz, \$5.00 C=1oz, \$8.00 D=4oz, \$28.00
E=1lb, \$100.00

2268MO Misato Rose OG (60 days) Also known as Chinese Red Heart radish, described in its native land as *xin li mei*, meaning 'in one's heart beautiful.' A unique selection from a hybrid, with two variations so about half have light greenish-tan outer skins and light green stems and leaf veins, the remainder medium-rose outer skins, rose stems and leaf veins. The roots on each type have the characteristic rose flesh, the ones with the darker skins having darker and more pungent hearts. Both are fine tasting and good looking, with plenty of spiciness, a rich sweet vegetable undertone and no harsh sharpness. Will grow as large as a big beet if given sufficient space. For autumn crops, a good keeper. WA, MT-certified. ①

A=1/8oz, \$1.80 B=1/2oz, \$5.20 C=1oz, \$8.40
D=4oz, \$25.00 E=1lb, \$85.00



2270BS Round Black Spanish (65 days) For some real heat, try a slice of the venerable Black Spanish. Turnip-shaped 4" roots with corklike black exteriors have extremely pungent white flesh that loses some heat when boiled or stir-fried. Can be stored like carrots and beets in slightly moistened sand in the root cellar or layered into damp raked leaves. Dates back to the 16th-century conquistadors. ③

A=1/8oz, 90¢ B=1/2oz, \$1.40 C=1oz, \$2.20 D=4oz, \$4.50
E=1lb, \$13.00 K=5lb, \$62.00

2273HO Hild's Blauer OG (80 days) Our romance with Hild's Blauer started eight years ago, at first a flirtation based on looks—exquisite skin color, more purple than blue, contrasted against crisp white flesh—but then deepened into an appreciation of taste—sweetly firm but tender. We were hooked, but seed was nowhere to be found. We scoured seed companies and seed banks, finding a bit here and there, followed by heartbreaking crop failures. We persisted. Finally, a competent radish-seed farmer with Canadian seed stock brought this hidden gem into the light of day. Still a winter staple in Germany, Hild's Blauer is one of the best rewards for eating seasonally. Winter radishes are making a comeback in farm-to-table cuisine, sliced and dressed with oil and salt, mixed into soups, stir-fries or kimchi. Gardeners can enjoy such fare all winter long as Hild's Blauer will keep at least 4 months in a root cellar. Elongated 3x7" roots mellow both with storage and with cooking. We promise not to be jealous if you fall in love, too. ① **NEW!**

A=1/8oz, \$1.80 B=1/2oz, \$5.20 C=1oz, \$8.40

Daikon RADISHES

Daikon means 'big root' in Japanese. See also **2263**, **2267**.

2277MP Mini Purple (50 days) F-1 hybrid. Wide plumb-bob-shaped 5" long by 2 1/2" wide roots with gorgeous Easter egg bluish-purple skin and greenish-purple shoulders are "mini" only when compared to long white types. Topped by vibrant dark green leaves with short stems blushed purple-pink. Interior flesh is ringed deep purple with streaks through white meat merging into a purple sunburst core. All sizes, from small 3" up to the 9" bombs, have excellent crunchy tender raw texture and mildly spicy flavor. When cooked, Mini becomes firm and oh-so-sweet and savory with tangy hints of rutabaga. *Note:* expect 10% green-shouldered white off-type roots of same flavor and texture. ⑤

A=1g, \$2.00 B=4g, \$6.00 C=14g, \$14.00 D=28g, \$25.00

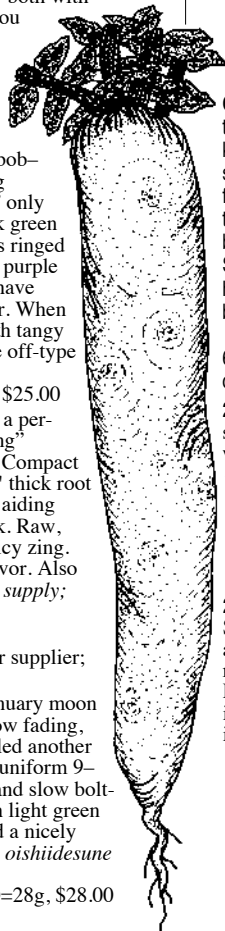
2281WL Winter Light (62 days) F-1 hybrid. From Japan, a perfect-in-form compromise between the short stubby "half-long" Korean types and the standard arm- (or leg!) length daikon. Compact foliage sits atop a straight white crack-free 9–12" long, 2 1/2" thick root with a blunt end. Almost half the root stands above ground, aiding easy harvest and leaving 3–4" of faint green tone to the neck. Raw, Winter Light is juicy, tender-crisp and mild with a slight spicy zing. Tender but firm when cooked, with a gentle sweet tangy flavor. Also known as D-51. Discontinued by the supplier. *Seed in short supply; order early.* ⑤

A=1g, \$1.60 B=4g, \$4.20

Shinden Risoh (68 days) F-1 hybrid. Discontinued by our supplier; no longer available.

2285ST Saitaro (69 days) F-1 hybrid. Like a stark late January moon crossed by clouds, Winter Light daikon glimmered but is now fading, yanked by the supplier. Luckily our 2015 daikon trial revealed another top finisher. Similar to Winter Light in size, Saitaro's thick uniform 9–12"-long root tapers to a blunt point. Its rise will be steady and slow bolting, vigorous tops shading the nice-looking white roots with light green tinted shoulders. With very smooth silky texture cooked and a nicely spiced crunch when raw, this one is sure to have you saying *oishiidesune* ("ohee-SHE-des-nay"). Resists yellow wilt. ⑤ **NEW!**

A=1g, \$2.00 B=4g, \$6.00 C=14g, \$15.00 D=28g, \$28.00



OTHER ROOTS

BURDOCK *Arctium lappa*

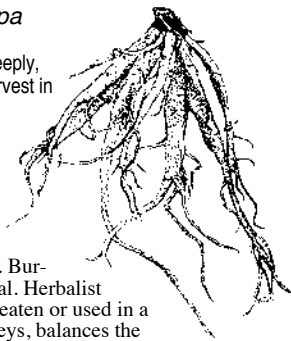
~1,700 seeds/oz; 27,000 seeds/lb.

Culture: Culture like carrots, working the soil deeply, direct-sowing in spring and thinning to 3–6". Harvest in fall or early next spring.

2300TG Takinogawa (120 days) Open-pollinated. Treasured by the Japanese, who call its long fleshy aromatic taproot *gobo*.

The standard Japanese variety, setting 1–2' mild earthy-tasting bittersweet roots. Small roots are peeled and used in salads; larger roots are good in stir-fries and soups. Burdock has a long history of use as a medicinal. Herbalist Deb Soule says that burdock root, whether eaten or used in a tea or tincture, nourishes the liver and kidneys, balances the appetite and digestion, and is useful in anti-cancer remedies. Burdock roots and seeds are also used in combating skin diseases. Think about that the next time you run into burdock as a common farmyard weed dispensing its ubiquitous nuisance burrs. ⑥

A=1/8oz, \$1.90 B=1/2oz, \$6.50 C=1oz, \$11.00 D=4oz, \$36.00

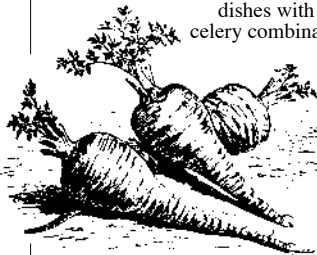


ROOT PARSLEY *Petroselinum crispum*

~18,000 seeds/oz.

2301AR Arat (88 days) Open-pollinated. Enhance your soups and specialty dishes with these nutty-flavored roots redolent of a parsley-celery combination. Sweeter and more uniform than Hamburg, these roots are whoppers: they fill out well and grow almost a foot, benefiting from a deeply worked seed bed. You can sustain a harvest through much of the winter and possibly into spring if you protect them. Young flat parsley leaves also add zest. Contract limits seed to a one-time use. ④

A=1/16oz, \$2.00 B=1/8oz, \$3.80
C=1/2oz, \$12.00 D=1oz, \$22.00
E=4oz, \$84.00



PARSNIPS *Pastinaca sativa*

~7,000 seeds/oz. 1/8 oz packet sows 25 ft; 1 oz, 200 ft. All open-pollinated.

In his book *Gene Everlasting: A Contrary Farmer's Thoughts on Living Forever* (9411 in our books section), Gene Logsdon suggests that humans have much to learn from parsnips about how to achieve life everlasting. "First cultivate an independent ornery reliability that will draw admiration from everyone. Second develop a distinctive personality as parsnips do, with a taste appreciated only by the discerning minority, not the herd-like majority, and third don't try to look too pretty in public."

Culture: Seed is short-lived; if you are planning to use old seed, germ test in paper towels before sowing. Slow to germinate (14–21 days). Prepare a deep seedbed and keep it moist with frequent watering until emergence. Sow about 1" apart in mid-spring. Thin to 2–3". Parsnips require a full growing season. Suitable for harvest after frost for late fall delights. Parsnips left to overwinter in the ground will nearly triple their fall sugar content. For the best early spring treats, harvest as soon as possible before the plants resume growth. Roots become more woody as the plants re-grow. Save some plants for seed in year two. Plants will shoot up 6' before July-Aug. seed harvest. Homegrown parsnip seed often is better and more viable than any you can buy on the market.

Minimum germination temperature 46°, optimal range 55–77°, optimal temperature 65°. Emergence takes 27 days at 50°, 14 days at 68°, 89% normal seedlings at 68°, only 77% normal at 77°.

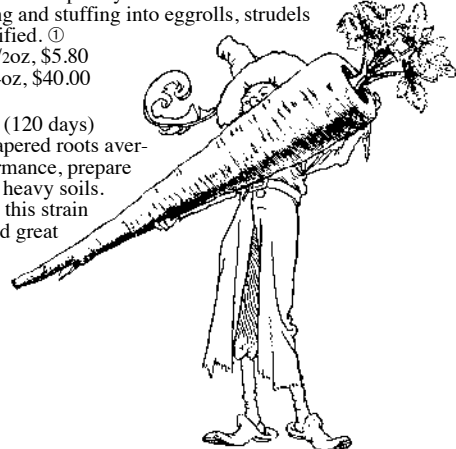
2306DO Andover OG (120 days) Always a best-seller when we have the seed for this outstanding variety—an absolute knockout in our trials. Those with good tilth can anticipate consistent production of refined tapered cylindrical roots 12–14" long. Developed by the U. of Minnesota.

One of the best for grating and stuffing into eggrolls, strudels and veggie pies. OT-certified. ①

A=1/8oz, \$2.10 B=1/2oz, \$5.80
C=1oz, \$11.00 D=4oz, \$40.00
E=1lb, \$140.00

2310HA Harris Model (120 days) Sweet-flavored smooth tapered roots average 10". For better performance, prepare raised beds, especially in heavy soils. Don't believe stories that this strain is running down. It looked great in our plots. ②

A=1/8oz, 90¢
B=1/2oz, \$1.60
C=1oz, \$2.50
D=4oz, \$5.50
E=1lb, \$16.00
K=5lb, \$75.00



SALSIFY *Tragopogon porrifolius*

2318GG Gammel Gotlandsk ECO (120 days) Open-pollinated biennial. Also known as oyster plant, its flavor bearing only the most fanciful resemblance to that of the bivalve mollusc. (Closer to that of the artichoke, claims Maine garden writer Barbara Damrosch.) This variety came to us from our friends at Runabergs Froer who described it as "the best" in their trials. Nikos agrees that it is the best and highest-yielding salsify she's ever seen. Its name means 'old from the Island of Gotland,' the largest island off the coast of Sweden in the Baltic Sea. Similar to 2322 *Scorzonera*, sporting one long 8-9" taproot, described by Damrosch as having "tan and shaggy" bark concealing its snow-white interior. A little thicker than a pencil but by no means as thick as a carrot. May be wintered over like a parsnip and harvested in the spring before it goes to seed. Comes up like a big grass clump; thin the plants for adequate room. In the second year each plant sets dozens of little purple daisy-like blossoms that open to 4" puffballs. ①

A=1/8oz, \$3.80 B=1/2oz, \$15.00 C=1oz, \$28.00

SCORZONERA *S. hispanica*

2322NR Noir de Russie (120 days) Open-pollinated biennial. *Scorzonera* derives from the Spanish *corteza negra* or 'black bark.' Long narrow dark-skinned white-fleshed root is a good source of iron, phosphorus and calcium. Although not handsome, it is prized by gourmet cooks in Europe for its distinctive flavor, and used like potatoes in *haute cuisine*. Much of the flavor resides in the dark skin so do not peel before cooking. Has a firm smooth texture, not sweet like many root vegetables. Culture like parsnips, overwintering in the field and pulling as needed. Flavor improves after a hard frost. Has only limited storage in root cellars, nor does it can or freeze well, so use right after harvest. Seed is short-lived; germ test old seed in paper towels before sowing. ②

A=1/8oz, \$1.40 B=1/2oz, \$3.50 C=1oz, \$6.00
D=4oz, \$20.00 E=1lb, \$75.00

SKIRRET *Sium sisarum*

Skirret (120 days) Open-pollinated perennial. Regret crop failure. *Not available this year.*

TURNIPS & RUTABAGAS

1/8 oz packet sows almost 40 ft; 1 oz about 300 ft.

~8,000-14,000 seeds/oz. All open-pollinated except 2377 Oasis.

Culture: Hardy members of Brassica family. Thinning is critical for full-sized roots. Turnips have a shorter growing season and are not as cold-hardy or as good keepers as rutabagas. Turnips are best picked before they get large and fibrous. Rutabagas, also known as Swedish turnips or Swedes, form enlarged roots above ground with a finely branched system below.

Minimum germination temperature for turnips 40°, optimal range 60-95°, optimal temperature 75°, 79% normal seedlings at 50°, 98% normal at 59°.

Disease: DM Downy Mildew

Note: Cannot ship rutabagas and turnips in packages larger than one half oz. to the Willamette Valley because of quarantine.

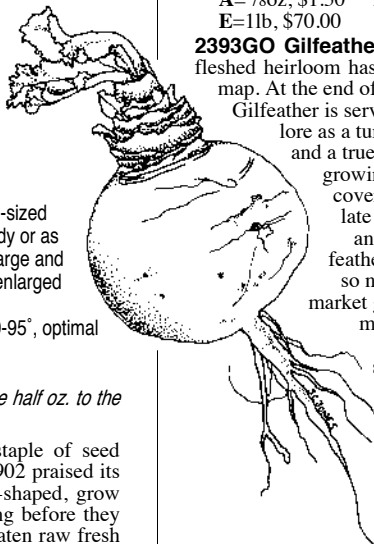
2372WE White Egg Turnip (45 days) *Brassica rapa* A staple of seed catalogs throughout most of the 19th century. Henderson in 1902 praised its perfectly smooth skin and snowy white flesh. Roots are egg-shaped, grow rapidly half out of the ground, ideal for early market bunching before they attain full size. The flesh is very sweet, so mild they can be eaten raw fresh from the garden, also good for pickling. Keeps well; flavor intensifies in storage. ②

A=1/8oz, 90¢ B=1/2oz, \$1.60 C=1oz, \$2.60 D=4oz, \$5.00
E=1lb, \$9.50 K=5lb, \$44.00

2376GB Gold Ball Turnip (45 days) *B. r.* Listed in the *Album Vilmarin* (1854-55) as Robertson's Golden Ball, also known as Orange Jelly. Not truly orange, the skin is very smooth and yellow and the soft flesh is golden-yellow. Rather broad leaves of medium height. Although the globes reach 4-5" at full size, they achieve peak flavor and maximum sweetness at 3" in diameter. Alan LePage says "better than rutabagas or any other turnip." A good keeper; he was selling them into March. Maryland market grower Brett Grohsgal concurs, Gold Ball "comes into its own after the frosts and freezes have begun...remains mild and nutty

[with] a firm, near-perfect texture. Best simmered or roasted. Pleases even those retail customers who don't really like other turnips, and a strong seller with our chefs." ②

A=1/8oz, 90¢ B=1/2oz, \$1.60
C=1oz, \$2.60 D=4oz, \$5.00
E=1lb, \$9.50 K=5lb, \$44.00



2377TR Oasis Turnip (50 days) *B. r.* F-1 hybrid. The closest we've found to the much-sought-after Hakurei turnip, sharing many fine features: smooth round globes, refined pure white color, delicate sweet fruity flavor and crisp tender texture so suitable for salads and light cooking. Our purchaser Nikos Kavanya esteems it highly. Good for fall as well as early summer crops. Best harvested at bunching size, but retains quality for a while. From Takii in Japan. Tolerant to DM. ⑤

A=1/16oz, \$2.20 B=1/4oz, \$6.80 C=1/2oz, \$11.50 D=1oz, \$21.00
E=4oz, \$70.00 K=1lb, \$260.00

Purple Top White Globe Turnip (50 days) *B. r.* Popular variety with purple tops, white bottoms and white flesh can attain 6" in diameter. An heirloom from before 1880. Starks claimed in 1921 that "other varieties are good, but this one stands in a class by itself." Sometimes used to feed livestock, but Eli and I like them in soups, and Joanna eats them up to golf-ball-sized with the greens.

2378WG Purple Top White Globe ②

A=1/8oz, 90¢ B=1/2oz, \$1.60
C=1oz, \$2.60 D=4oz, \$5.50
E=1lb, \$9.50 K=5lb, \$44.00

2379WO Purple Top White Globe OG CCOF-certified. ③

A=1/8oz, 90¢ B=1/2oz, \$1.70
C=1oz, \$3.00 D=4oz, \$5.50
E=1lb, \$13.00 K=5lb, \$58.00

2384RR Red Round Turnip (55 days) *B. r.* Very similar to Scarlet Ohno turnip, Red Round's root is a little rounder, but with the same tennis ball size and bright red skin. Inside flesh is white with a bit of variable rose blushing. Slice them on a crudité platter or use them to make a beautiful magenta kimchi. ⑤

A=1/8oz, \$1.50 B=1/2oz, \$4.50 C=1oz, \$7.80 D=4oz, \$21.00
E=1lb, \$70.00

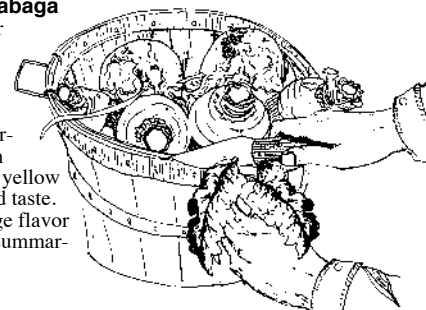
2393GO Gilfeather Turnip OG (85 days) *B. napus* x *B. r.* This white-fleshed heirloom has put Wardsboro, VT, (population 900) on the culinary map. At the end of October each year, Wardsboro hosts a festival at which Gilfeather is served in all the dishes. Although it has come down in folklore as a turnip, it is really an interspecies cross between a rutabaga and a true turnip, big-knobbed and bulky with small hairy tendrils growing on its light green skin. It was either developed or discovered by John Gilfeather (1865-1944) of Wardsboro in the late 1800s. He sold them by the cartload in Brattleboro, VT, and Northampton, MA, in the early 1900s. Although Gilfeather is said to have cut the tops and bottoms off his turnips so no one else could propagate them, some seeds escaped to market growers William and Mary Lou Schmidt, who salvaged, multiplied and commercialized them. Sweeter and later to mature than other turnips, not woody even at softball size, and taste better after frost. "Smooth, sweet, silky—we love it mashed with carrots and a small potato," said Susan Lowry of Fryeburg, ME. Amy Burke of York, ME, suggested adding Gilfeather to our season-extending greens list. At the end of January she found them even hardier than Red Russian and Beedy's Camden kales. Listed on Slow Food's Ark of Taste. CCOF-certified. ①

A=1/16oz, \$1.80 B=1/4oz, \$4.80
C=1oz, \$12.50 D=4oz, \$46.00

2398LU Laurentian Rutabaga

(95 days) *B. n.* This popular Canadian variety sports a deep purple crown and cream-yellow base. Uniform 5-6" almost neckless roots suitable for winter storage, larger and sweeter than American Purple Top. Pale yellow flesh has refined texture and taste. "The mix of a sweet cabbage flavor with a potato-ish texture," summarizes Anne Elder. ②

A=1/8oz, \$1.00 B=1/4oz, \$1.60
C=1oz, \$2.80 D=4oz, \$5.00
E=1lb, \$12.50 K=5lb, \$58.00



Annual membership rates for MOFGA and NOFA

You can join when you order; list names and addresses on a separate sheet, indicate new membership or renewal, add total on order form.

| state | individual | family | supporting | other | |
|-------|------------|--------|------------|-------|-----------------|
| VT | 40 | 55 | 100 | 25 | stu/sen/low inc |
| NH | 45 | 45 | 45 | 30 | basic/student |
| MA | 40 | 50 | 250 | 25 | low income |
| RI | 35 | 50 | 125 | 25 | student/senior |
| CT | 50 | 60 | 200 | 30 | student/senior |
| NY | 45 | 100 | 250 | — | — |
| NJ | 40 | 70 | 150 | 20 | student/intern |
| ME | 40 | 60 | 120 | 20 | stu/sen/low inc |

ALIMENTARY ALLIA *Allium* spp.

Diseases:

DM Downy Mildew
PR Pink Root

About allium seed: We do not hold over hybrid onion seed because of precipitous decreases in germination. Onion and leek seed is short-lived. Retest 1-year-old seed before using. Discard anything older.

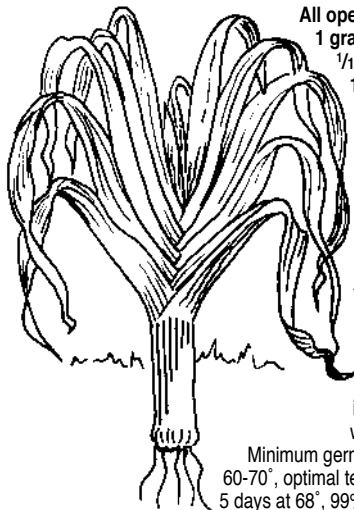
Days to maturity are from date of transplanting.

LEEKs *A. porrum*

All open-pollinated except for 2418 Megaton.
1 gram packet ~240-360 seeds,
1/16 oz packet ~400-600 seeds;
1 oz, 6,400-9,600.

Culture: Start indoors in Feb. or March and transplant out in spring almost as soon as the ground can be worked. Set 6-12" apart in trenches in well-dug beds with generous quantities of organic matter. Avoid transplanting next to grass strips; slugs love to dine on tiny allium seedlings. Irrigate seedlings whenever the topsoil dries out. Early leeks have tall shanks above ground and should be harvested before severe frosts. Hardier leeks have broader, shorter shanks and will hold till November. Leeks brought into the root cellar will survive almost all winter if heeled into soil.

Minimum germination temperature 50°, optimum range 60-70°, optimal temp 68°. Emergence 13 days at 50°, only 5 days at 68°, 99% normal seedlings at 68°.



King Richard (75 days) Regret no crop this year; *not available in 2017.*

2408LN Lincoln (75 days) A leek with a dual purpose, Lincoln may be sown thickly like scallions, harvested in 50-60 days and bunched for upscale direct markets and discerning chefs. Or, transplanted more conventionally, they may be allowed to grow another three weeks to full size. Shanks even longer and sleeker than King Richard's with delicate sweet leek flavor. Ready in late August, will withstand light frosts, but should be harvested before late October. Contract limits seed to a one-time use. ④

A=1/16oz, \$3.20 B=1/8oz, \$6.20 C=1/2oz, \$24.00 D=1oz, \$45.00
E=4oz, \$175.00

2411SO King Sieg OG (84 days) Beth Rasgorshek of Canyon Bounty in Idaho crossed King Richard with Siegfried Frost leek to create a versatile stable cultivar that has some of the good attributes of both. Sieg appears to have inherited the most from Siegfried. Its shanks are intermediate between the long King Richard and the short Siegfried, about 6" long but with a wonderful 3" thickness for a wide edible area. It also has some of Siegfried's delightful blue-green coloration and delayed maturity. ©2005. ID-certified. Ω ①

A=1/16oz, \$1.80 B=1/8oz, \$3.40 C=1/2oz, \$7.50 D=1oz, \$12.00
E=4oz, \$36.00

Megaton OG (90 days) F-1 hybrid. Check our website for availability.

2421LL Lancelot (90 days) "Great quality, disease resistance and size," says Tom Vigue. Also looked good in my 2014 Colrain plot. A dependable heavy-yielding virus-tolerant bolt-resistant open-pollinated leek. Suitable for late-fall harvest and possible overwintering in climates warmer than ours. Uniform 12-14" shafts with good thickness. A good substitute for Megaton. Contract limits seed to a one-time use. (See page 3.) ④

A=1g, \$2.80 B=2g, \$5.40
C=4g, \$9.50 D=14g, \$27.00
E=28g, \$50.00

2425BS Bleu de Solaize (110 days) This hard-to-find French heirloom is so-named because its dark green leaves sometimes develop a tinge of blue during cold spells. Hardy fat medium-long shanks with mild flavor good in soups. Dates back to the 19th century. Adam Tomash and June Zellers have successfully overwintered it in Zone 5 and trialer Donna Dyrek in Zone 4 with only straw mulch for protection. ②⑤

A=1/16oz, \$1.50 B=1/8oz, \$2.80 C=1/2oz, \$5.50 D=1oz, \$9.00
E=4oz, \$28.00 K=1lb, \$95.00

2426GO Siegfried Frost OG (120 days) Making much of its growth below ground where it is protected from the cold, this leek often withstands the rigors of winter to offer a delectable spring treat. With stalks growing as much as 4" across there is plenty to enjoy. Most will survive winters with good snow cover if you hill your leeks and mulch after the ground freezes. Open winters with fluctuating temperatures and multiple freezes and thaws are the enemy you must overcome. OT-certified. ①

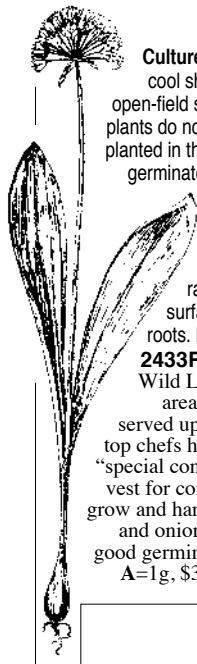
A=1/16oz, \$1.90 B=1/8oz, \$3.60 C=1/2oz, \$8.00 D=1oz, \$14.00
E=4oz, \$42.00

RAMPS *A. tricoccum*

Culture: Ramps are a native perennial of deciduous forests, growing best in cool shady areas with damp rich soil high in organic matter and calcium. An open-field setting is probably too dry and exposed for good germination, and the plants do not have a long life in artificial shade. Because this is a wild plant, seed planted in the spring will germinate that spring if conditions are right; if not, it may germinate the next spring. Mark your patches well and provide protection from predation. Once a bulb is formed, the new leaves emerge in early spring, before the tree canopy develops; by late spring leaves die back and a flower stalk emerges. Photosynthetic period and the harvest window is limited to these few weeks. Once established, ramps grow in close communities, strongly rooted just beneath the soil surface. Harvest carefully with a sharp knife, cutting plants just above the roots. Disturb roots as little as possible.

2433RM Ramps (6-18 months) Open-pollinated. Sometimes called Wild Leeks. This bulb-forming perennial is a spring ephemeral in my area but it wasn't until this spring that I had my first mess of them, served up as wildwood fare. Their celebrated rapid rise as the darling of top chefs has led to overharvesting. They are now considered a species of "special concern" for conservation in ME, RI and TN, and in Québec, harvest for commercial use is banned. But with patience you can sustainably grow and harvest your own. Their delectable pungent flavor, a mix of garlic and onion, speaks to their wild nature, and satisfies our long wait. Not a good germinator; expect less than 50%. ② **NEW!**

A=1g, \$3.50 B=2g, \$6.20 C=4g, \$12.00 D=14g, \$40.00



SCALLIONS *A. fistulosum*

Can be direct-seeded, spring or fall. For a steady market crop, seed every two weeks all season.

2439EV Evergreen Hardy White (65 days)

Open-pollinated. Also known as Nebuka, a perennial bunching onion. If overwintered in the ground, develops clumps of scallions in the spring that can be harvested or divided and replanted. A welcome treat in April, one of the first fresh foods. Heirloom from Japan originated in the 1880s. Resists PR and smut. ③

A=1/16oz, \$1.30 B=1/8oz, \$2.40 C=1/2oz, \$5.00
D=1oz, \$9.00 E=4oz, \$15.00 K=1lb, \$58.00

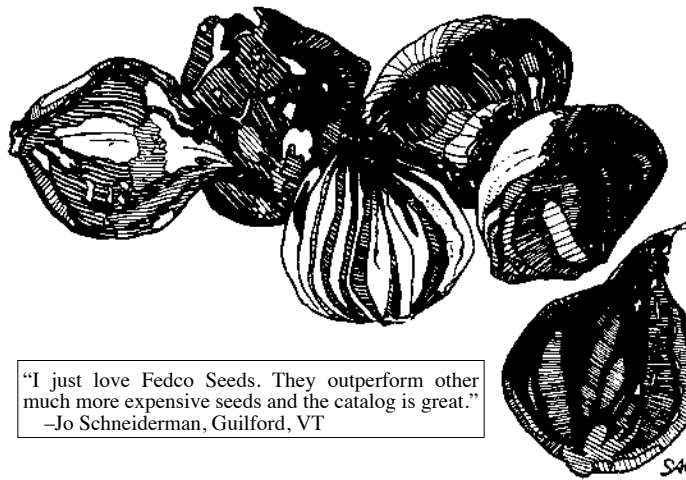
SHALLOTS *A. cepa* (aggregatum group)

2441EO Ed's Red OG (105 days) Open-pollinated. Three years ago when we were looking for a Prisma replacement we put a couple open-pollinated candidates into our trials. Ed's Red won hands down in taste: full flavored, delicious, sweet and meaty—better than Prisma. But the form was not at all uniform. Enter farmer-extraordinaire Beth Rasgorshek, who did some selections for us. The result is this newly improved Ed, fresh out of the field. You won't be disappointed by these fairly large gorgeous red shallots with storability almost as great as the legendary Prisma. **NEW!**

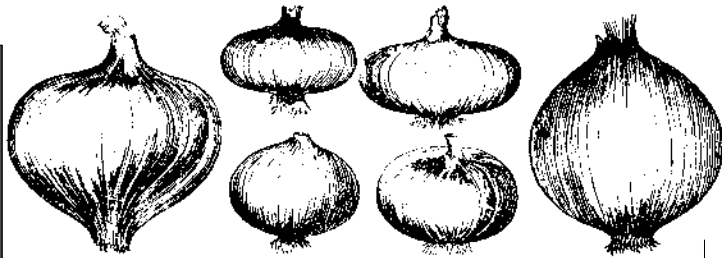
A=1/16oz, \$1.80 B=1/8oz, \$3.50 C=1/2oz, \$12.00

2442CL Camelot (110 days) F-1 hybrid. Camelot, the darkest red-skinned variety available from seed, is our choice for a good Prisma replacement with the same smooth and onion-y taste. When divided, has a bigger bulb than Prisma, 1-1 1/2" across and 2" long. Donna Dyrek's were out of the ground curing on Sept. 20 from an April 6 start. Can store till April. Adapted to 40-55° latitudes. Contract limits seed to a one-time use. ④

A=0.5g, \$2.60 B=1g, \$5.00 C=2g, \$9.50 D=4g, \$16.00
E=14g, \$47.00 K=28g, \$92.00



"I just love Fedco Seeds. They outperform other much more expensive seeds and the catalog is great."
—Jo Schneiderman, Guilford, VT



ONIONS *A. cepa*

Culture: Start same as for leeks except set onions 4-6" apart. Onions are notoriously intolerant of weeds and are day-length sensitive. Long-day types are for northern latitudes. The earlier they are set out, the more chance they have to make top growth while the days are lengthening. The more top growth, the greater the bulb size. After summer solstice they begin bulbing. After half the onion tops fall, push over the remainder and harvest within a week. Field-cure in the sun about 10 days until dry, covering with a tarp in wet weather. Curing is essential for long storage. Hang sacks in a cool dry well-ventilated place, periodically removing sprouting or rotting bulbs. Onions survive light frosts. When it begins to warm up in spring, put your remaining onions in your refrigerator crisper to extend their storage.

Germination temperatures same as for leeks except that we discourage the use of bottom heat because onions germinate poorly in temperatures above 70°.

2444CW Crystal White Wax (70 days) Open-pollinated. Unlike most onions, these can be direct-seeded in spring with the peas. Then the 1 1/2" pearly white bulbs ripen with the peas for early summer baby onions or pickles. Our ping pong ball-sized orbs were ready to harvest on July 7 in central Maine. Resists PR. ②

A=1/16oz, \$1.40 B=1/8oz, \$2.50 C=1/2oz, \$5.50 D=1oz, \$9.50
E=4oz, \$16.00 K=1lb, \$60.00

2445CO Cabernet OG (90 days) F-1 hybrid. Every season, we northern-tier growers fret over the always-late red onions. Will they fully ripen, cure and keep? Cabernet released us from this worry with fancy red onions ready for fresh use and market in late July. By Aug. 9, two-thirds of the crop had lain down, a full week before New York Early began its descent. By Aug. 31, Cabernet was firm, cured and ready for 3-4 months storage. No shortcomings in this classy uniform early red. The 3 1/2" wide, 8 oz single-centered globes slice to the perfect size to top a large burger at your cookout. Raw, the rings are many and thin, finely textured and crunchy, sweet and slightly spicy. Cooked, the excellent aroma and full sweetness will induce you to use them up long before they reach their storage limit. Intermediate day suitable for mid-Atlantic through northern areas. Lacon-certified. ④ **NEW!**

A=1g, \$3.00 B=2g, \$4.80 C=8g, \$15.00 D=24g, \$42.00
E=96g, \$150.00

2446RM Red Marble (95 days) F-1 hybrid. This hard red variety is the best of its kind. Alan LePage loves how hard they are and how fast they finish. While they can be closely spaced to grow 1-2" baby red pearl onions, they can also be spread apart to make full-sized onions 2-3" across with the characteristic Cipollini flat bottoms and thin necks. A few will grow as big as 4" in fertile conditions. Dark red penetrates deep into the rings. LePage observes that unlike yellow Cipollinis, they always sell well when he displays them at farmers market. "Their stony polished red skin just shines when they are fully finished." Excellent keepers, they store till February or March. Long-day type for northern latitudes above 40°. Seed is film-coated; allowed for organic production. Contract limits seed to a one-time use. ④

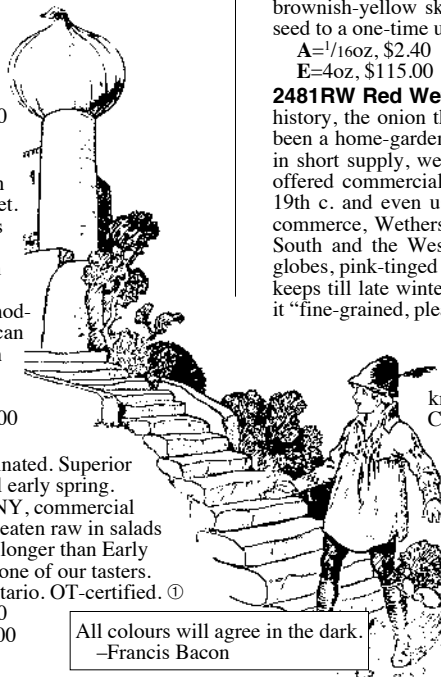
A=1/16oz, \$1.70 B=1/8oz, \$3.20 C=1/2oz, \$9.00
D=1oz, \$16.00 E=4oz, \$62.00

2447WW Whitewing (97 days) F-1 hybrid. These firm, almost perfectly round handsome 1 lb bulbs with slender strong necks will boost almost anyone's market. Trialer Donna Dyrek, who is lavish in their praise, has grown them even bigger, up to 1 1/2-2 lb. Very early and well adapted to our climate, some years Wing can be harvested as early as mid-late Aug. In cool seasons they stand till Sept. 1. Hard, pleasantly pungent and moderately sweet. Not a great keeper; with proper curing can last till the New Year. Intermediate to long day-length suitable for mid-Atlantic and northern areas. Contract limits seed to a one-time use. ④

A=1/16oz, \$2.20 B=1/8oz, \$4.30 C=1/2oz, \$17.00
D=1oz, \$32.00 E=4oz, \$125.00

2449YO New York Early OG (98 days) Open-pollinated. Superior strain of Early Yellow Globe selected for storage until early spring. New York Early was maintained by Orange County, NY, commercial onion growers. Very firm mild yellow onions may be eaten raw in salads or sandwiches. They average 2 1/2-3" across and store longer than Early Yellow Globe. "My fave, sweet & tender," evaluated one of our tasters. Adapted from 38° latitude to southern Quebec and Ontario. OT-certified. ①

A=1/16oz, \$2.10 B=1/8oz, \$4.00 C=1/2oz, \$8.50
D=1oz, \$15.00 E=4oz, \$50.00 K=1lb, \$180.00



All colours will agree in the dark.
-Francis Bacon

2454EX Expression (98 days) F-1 hybrid. The testimonials poured in when we threatened to drop this curiously named onion. Now that you have expressed yourselves, we'll keep this nice big juicy sweetie around. "As large and flavorful as Candy with better disease resistance," said Anne Nordell of Trout Run, PA. "Wow, we had some that weighed almost 1.5 lb apiece...I haven't been able to eat any onions raw for years, but I was delighted to find that these did not bother my stomach at all," chimed in Janine Welsby. Intermediate to long day-length (suitable for mid-Atlantic and northern areas), short to medium storage, decent heft (the large light brown globes average about 12 oz) and flavor. Bred by Bejo for high yields in rich clay loamy soils in the Northeast and PA. Contract limits seed to a one-time use. Has 1% red off-types. PR-tolerant. ④

A=1/16oz, \$2.10 B=1/8oz, \$4.00 C=1/2oz, \$15.00 D=1oz, \$28.00
E=4oz, \$110.00

Copra (104 days) F-1 hybrid. Ouch! Copra, long a customer favorite, has been dropped from the trade. **2472 Patterson** is the best facsimile.

2472PT Patterson (104 days) F-1 hybrid. 2016 is a time of great partings. Which is worse: losing Obama as president or losing Copra onion? We all knew the end was near for both and have spent the last few years searching for replacements. From our field trials and from feedback from staff farmers blocky-globed rusty-bronze-skinned Patterson has emerged as Copra's heir apparent. At 1.3 lb average Patterson is larger and more uniform, equaling the biggest of the more size-variable Copras. Patterson's necks sit down earlier and are healthier than Copra's. We slightly preferred Copra's flavor both raw and cooked, fresh out of the field, but after storage the gap narrowed, with raw Patterson edging out Copra but not quite as good as Copra cooked. We saw no storage difference between the two in winter 2015-16. Will Obama's replacement be adapted to 38° and north? Contract limits seed to a one-time use. ④ **NEW!**

A=1/16oz, \$2.50 B=1/8oz, \$4.20 C=1/2oz, \$16.50 D=1oz, \$30.00
E=4oz, \$112.00 K=1lb, \$430.00

2474DO Clear Dawn OG/BD (104 days) Open-pollinated Clear Dawn was bred out of Copra and introduced by Beth and Nathan Corymb of Meadowlark Hearth after being entrusted to them by biodynamic growers Claire Hall and Don Jason. The best open-pollinated storage onion, Dawn is slightly smaller than Copra with thicker necks, darker bronze skins and the same great storage capability. 8-10 oz average and very hard. A long-day type good in latitudes 37° and north. Certified bio-dynamically grown. Stellar, MT-certified. ①

A=1/16oz, \$1.90 B=1/8oz, \$3.60 C=1/2oz, \$12.00 D=1oz, \$20.00
E=4oz, \$68.00

2477BC Borrettana Cipollini (105 days) Open-pollinated. Sweet, dependable, easy to handle and delectable, this Italian heirloom is the quintessential boiling and braising onion. Shaped like a button, up to 4" wide (normally 3") but less than 1" thick. Flattened spheres with bright shiny golden skin. Fine-grained mild flesh with a well-developed flavor. Appreciated in soups, stir-fries and shish kebab. Braids beautifully and keeps till late winter. Adapted to 38° latitude and north. ②

A=1/16oz, \$1.70 B=1/8oz, \$3.20 C=1/2oz, \$7.50 D=1oz, \$13.00
E=4oz, \$40.00 K=1lb, \$140.00

2479PR Prince (105 days) F-1 hybrid. Several commercial growers requested Prince, an outstanding storage onion from the same breeder as Copra that is slightly larger and stores almost as long. A long-day type adapted to northern latitudes, Prince features classy uniform blocky large globes with vigorous tops that finish off to refined necks. Its satiny brownish-yellow skins adhere well even after long storage. Contract limits seed to a one-time use. ④

A=1/16oz, \$2.40 B=1/8oz, \$4.50 C=1/2oz, \$16.50 D=1oz, \$31.00
E=4oz, \$115.00

2481RW Red Wethersfield (110 days) Open-pollinated. Grow a piece of history, the onion that made the town of Wethersfield, CT, famous and has been a home-garden favorite for two centuries. With open-pollinated onions in short supply, we turned to this stalwart that we last listed in 2007. First offered commercially in 1834, it was grown extensively for market in the 19th c. and even used as currency in the town. At the height of its onion commerce, Wethersfielders annually shipped more than 5 million lb to the South and the West Indies. Large deep medium-firm purple-red flattened globes, pink-tinged white flesh with red concentric circles. Long-day variety keeps till late winter. The 1856 Comstock, Ferre & Co. catalog pronounced it "fine-grained, pleasant flavored and very productive." ② **BACK!**

A=1/16oz, \$1.80 B=1/8oz, \$3.40 C=1/2oz, \$8.00
D=1oz, \$12.00 E=4oz, \$36.00 K=1lb, \$130.00

2484AC Ailsa Craig (110 days) Open-pollinated. Also known as Exhibition, a cross between Danvers Yellow and Cranston's Excelsior introduced by David Murray in 1887.

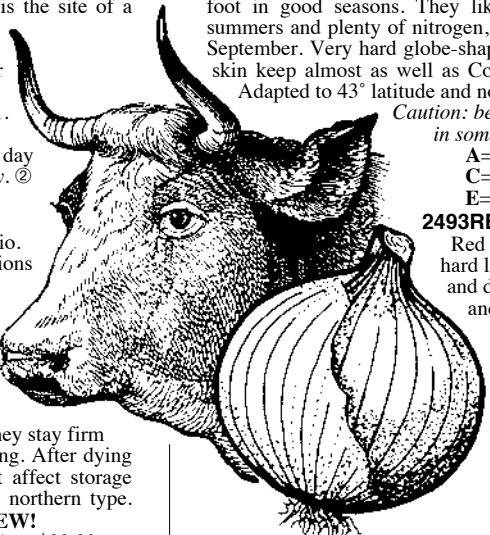
Jason Kafka made this onion famous. Usually he produces tons of the 1-3 lb roots, achieving yields well in excess of 1 lb per row foot and production multiples that Wall Street can only dream about. Year after year astounding specimens are exhibited at Common Ground Fair. The enormous slightly oval pale straw-colored globes are sweet, mildly pungent and store but a short while. Adapted to 38° latitude and north. Contract limits seed to a one-time use. ④

A=1/16oz, \$2.30 B=1/8oz, \$3.80 C=1/2oz, \$14.00
D=1oz, \$26.00 E=4oz, \$100.00

2485RT Rossa Lunga di Tropea (110 days) Open-pollinated. The famous Italian heirloom torpedo onion whose name means Long Red of Tropea. Tropea, in Calabria near the southern tip of Italy, is the site of a famous onion festival every August. Elongated like torpedos, these thin-skinned glossy maroon bulbs with lighter interiors are easily sliced into even rings. Sweet, mild and delicious for fall enjoyment. Plants died back in the first week of October for Donna Dyrek, will finish earlier if started indoors March 1. Excellent bunched fresh for farmers market in midsummer. Chefs love them for grilling or braising. Intermediate to long day for middle latitudes: 35-48°. Seed in short supply; *order early*. ②
A=1/16oz, \$1.70 B=1/8oz, \$3.00

2487TL Talon (110 days) F-1 hybrid. We're going to make onions great again! With tremendous Talon comes braggadocio. Nothing subtle about these bronze-brown-skinned storage onions that averaged almost 2 lb, even without irrigation in the 2016 drought. Very uniform tall blocky globes cling to the ground during active growth. Tall disease-resistant tops mirror those strong roots. Besting Patterson, Copra and Varsity in 50° storage, our 2015 Talons stayed rock hard with no sprouting until mid-May when we finished eating them before discovering their full storage potential. Raw, the flavor starts sweet and builds to a lingering medium pungency. Cooked, they stay firm but succulent; Talon is a full balance of sweet and allium tang. After drying back and curing, a nub of neck may remain that does not affect storage quality. Trim at that natural point of attachment. Long-day northern type. Contract limits seed to a one-time use. Resistant to DM. ④ **NEW!**
A=1/16oz, \$2.40 B=1/8oz, \$4.10 C=1/2oz, \$16.00 D=1oz, \$30.00
E=4oz, \$110.00 K=1lb, \$420.00

2489DO Dakota Tears OG (112 days) Open-pollinated long-day type. Another Dave Podoll breeding breakthrough, Dakota Tears was more than 20 years in the making. Though you might cry when you cut one open—their flavor is robust and oniony—you won't weep about their impressive production of very hard yellow bulbs with medium-thick necks averaging 1 lb each with no doubles. These matured in late September from an early April start and stored well for Dyrek. Holli Cederholm says hers keep till May under good storage conditions. ♣2009. ICS-certified. Ω ①
A=1/16oz, \$1.80 B=1/8oz, \$3.40 C=1/2oz, \$8.50 D=1oz, \$16.00
E=4oz, \$52.00



2491RW Redwing (116 days) F-1 hybrid. Jason Kafka's favorite onion, achieving an average size of 12-16 oz and yields in excess of 1 lb per row foot in good seasons. They like wet springs followed by warm or hot summers and plenty of nitrogen, usually finishing nicely in the 3rd week of September. Very hard globe-shaped 3-4" bulbs with deep purple-red glossy skin keep almost as well as Copra. Rated the ultimate red storage onion. Adapted to 43° latitude and north. Contract limits seed to a one-time use.

Caution: because of its long season, may not grow well in some cool or coastal areas. ④
A=1/16oz, \$3.10 B=1/8oz, \$6.00
C=1/2oz, \$23.00 D=1oz, \$44.00
E=4oz, \$170.00

2493RB Red Bull (118 days) F-1 hybrid. No bull, Red Bull is one good storage onion. These ultra-hard large red globes will keep until May. Shinier and darker than Rossa di Milano and red through and through. 3-4" bulbs with strong tops average 8 oz. Dyrek rates her Red Bull as very red, very big and very nice. Long-day type. They are slow to quit growing and often won't sit until Oct. 1 so may require too long a season for most of central Maine and areas farther north. Contract limits seed to a one-time use. ④
A=1/16oz, \$2.80 B=1/8oz, \$5.50
C=1/2oz, \$20.00 D=1oz, \$38.00
E=4oz, \$150.00

2498WW Walla Walla Sweet Spanish (125 days) Open-pollinated. "Join the funion and be part of the onion ring" is the slogan of the 32nd annual sweet onion festival to be celebrated in Walla Walla June 18-19. Their signature sweet onion is said to have originated in the French island of Corsica and been brought to Washington by a French soldier. It became famous in the Pacific Northwest for its juicy sweet flavor and has been in commerce since around 1900. In WA it can be wintered over. In our harsher zone it must be sown in the spring for fall harvest. These large onions are renowned for their mild flavor as soon as they come out of the ground. They do not store. Adapted to 35-55° latitudes. Next year in Walla Walla! ①
A=1/16oz, \$1.60 B=1/8oz, \$2.80 C=1/2oz, \$6.00 D=1oz, \$10.00
E=4oz, \$26.00 K=1lb, \$96.00



SPINACH *Spinacia oleracea*

1,400-2,600 seeds/oz. 1/4 oz packet sows 30-50 ft; 1 oz plants 120-200 ft.
Culture: Very hardy. Must be planted as soon as the ground can be worked in the spring to avoid early bolting. For fall crop try late July-Aug. sowing; to overwinter, sow late Aug.-Sept. Heavy nitrogen requirements, but avoid applying high-nitrogen fertilizers shortly before harvest to prevent high nitrate levels in the leaves. Pick large leaves often for heavier production.

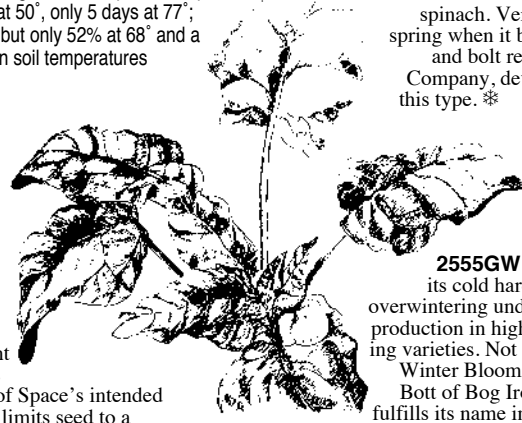
Smooth-leaved spinach is easier to wash than the semi-savoyed type and is increasingly preferred as attested by our huge sales of 2510 Space. Heat, crowding and long day-length (over 14 hours) trigger premature bolting. To retard bolting, avoid hot-weather planting, use wider spacing and irrigate or use shade cloth.

Minimum germination temperature 35°, optimal range 45-65°, optimal temps 55-60°. Emergence takes 23 days at 41°, 12 days at 50°, only 5 days at 77°; however 91% normal seedlings at 50°, 82% at 59°, but only 52% at 68° and a mere 28% at 77°. Spinach seed will not germinate in soil temperatures above 85°.

Diseases:

- BM Blue Mold
- CMV Cucumber Mosaic Virus
- DM Downy Mildew

2510SP Space (37 days) F-1 hybrid. Regularly sells more than 3,500 packets per year. Produces the kind of vigorous big thick wavy mostly smooth slightly savoyed leaves that market growers love and restaurant chefs adore. Relatively long-standing when sown in early spring. Vigorous at all times, it was the quickest to mature from a fall planting. Upright growth results in good clean dark green leaves with a juicy sweet taste. We've heard rumors of Space's intended demise so stock up, don't Space out! Contract limits seed to a one-time use. Resistant to DM1,2,3. * ④
A=1/4oz, \$1.60 B=1/2oz, \$2.80 C=1oz, \$5.20 D=4oz, \$11.00
E=1lb, \$29.00 K=5lb, \$135.00



2512LY Olympia (38 days) F-1 hybrid. An outstanding performer for the fall crop and even early winter but not as hardy as 2558 Winter Bloomsdale, Olympia grows fast, producing enormous yields of mostly smooth leaves up to 5x6" almost entirely lacking in oxalic-acid taste, so her mild flavor goes down easily. But Olympia can't stand the heat and bolts quickly when planted in spring. Bag tag limits seed to a one-time use. Resistant to DM1,2,3. * ⑤
A=1/4oz, \$1.30 B=1/2oz, \$2.40 C=1oz, \$4.20
D=4oz, \$8.00 E=1lb, \$25.00 K=5lb, \$110.00

* = Season-extending variety, hardy through part of the winter. See list on page 45 for more information.

2538AV Avon (42 days mature, 20 to baby leaf) F-1 hybrid. Cosmetic allure alone could not succor us in the loss of star performer Tye. Luckily, from our 2015 spinach trial: Ding dong! Avon came calling. This vigorous semi-savoy matures large broad dark green leaves with mild sprightly sweet flavor. Tender leaf and stem pair well with an upright spreading habit for easy baby-stage cuttings. Avon holds well in heat and keeps its pleasing texture and good looks as the days get shorter and cooler. With bountiful early and late harvests, you might find yourself peddling beautiful tasty spinach door to door. Unsurprisingly, our best-selling new variety in 2016. Bag tag limits seed to a one-time use. Resistant to DM1,2. ⑥
A=1/4oz, \$1.50 B=1/2oz, \$2.60 C=1oz, \$4.80 D=4oz, \$10.00
E=1lb, \$30.00 K=5lb, \$135.00

Bloomsdale (42 days) Open-pollinated. The standard crinkled-leaf spinach. Very good cold soil emergence. Much better in fall than in spring when it bolts in the heat. Recent hybrids surpass it in production and bolt resistance. David Landreth, founder of the Landreth Seed Company, developed the original Bloomsdale Spinach, forerunner of this type. *

2540LS Bloomsdale ②
A=1/4oz, 90¢ B=1/2oz, \$1.40 C=1oz, \$2.20
D=4oz, \$4.50 E=1lb, \$13.00 K=5lb, \$60.00
2541BO Bloomsdale OG CCOF-certified. ③
A=1/4oz, \$1.60 B=1/2oz, \$3.00 C=1oz, \$5.20
D=4oz, \$12.50 E=1lb, \$38.00 K=5lb, \$180.00

2555GW Giant Winter (45 days) Open-pollinated. Selected for its cold hardiness. Recommended for late fall greenhouse crops, or overwintering under mulch. The most productive for late fall/early winter production in high tunnels with up to six times the leaf matter of competing varieties. Not as good springback recovery from hard winters as 2558 Winter Bloomsdale. Large medium-green semi-savoyed leaves. Betsy Bott of Bog Iron Farm and Forge in Blue Hill, ME, says Giant Winter fulfills its name in the greenhouse. * ②
A=1/4oz, \$1.40 B=1/2oz, \$2.50 C=1oz, \$3.20 D=4oz, \$7.50
E=1lb, \$24.00

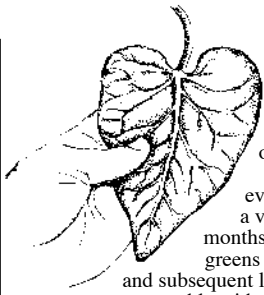
2558WO Winter Bloomsdale OG (47 days) Open-pollinated. Dark green deeply savoyed leaves are slower growing with a more spreading habit than other varieties. Recommended for early spring and fall plantings because it tolerates temperature extremes better than some hybrids. Ideal for wintering over. Along with Space and Olympia has shown the best spring bounce-back after severe winters in the hoophouse. Resistant to CMV and BM. WSDA-certified. * ①
A=1/4oz, \$1.60 B=1/2oz, \$3.00 C=1oz, \$5.50 D=4oz, \$15.00
E=1lb, \$52.00 K=5lb, \$250.00

SPINACH SUBSTITUTES

2590CM Caucasian Mountain Spinach

Habitzia tannoides Perennial, Zones 3-6. The surprise sensation of our 2015 catalog, its success motivated us to Ramp (see 2433) up our permaculture selection. Too new to have an agreed-upon common name, this plant has everything else. Originating in the Caucasus, it is a very hardy perennial, growing 6-9' long for 2-3 months in the very early spring when few other edible greens have surfaced. It's also tasty: both early shoots and subsequent leaves make a delicious and tender spinach-like vegetable without any bitterness. Moreover, it's beautiful, was originally introduced into Sweden around 1870 as an attractive vine to screen manor houses with its heart-shaped leaves. And, finally, though it is best grown in sun to maximize its productivity, it will also do well in its native habitat, the understory of temperate forests. Best germinated with stratification, and slow-growing in the first year. ~1,360 seeds/g. ①

A=0.1g, \$2.40 B=0.2g, \$4.40 C=0.4g, \$6.50 D=1g, \$13.00
E=4g, \$44.00



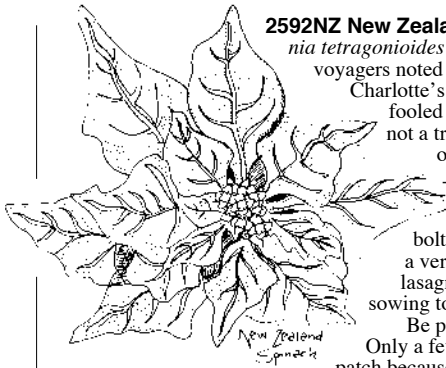
2592NZ New Zealand Spinach (52 days) *Tetragonia tetragonioides*

Open-pollinated. Captain Cook's voyagers noted it in 1770 on the shores of Queen Charlotte's Sound in New Zealand. Don't be fooled by the spinach in its name; this is not a true spinach. Doesn't look like one or taste like one, though some find it an acceptable substitute

because it stands through the hot summer when true spinach bolts. Chefs have discovered that it is a very good green baked, especially in lasagna. Soak the nut-like seeds before sowing to speed and improve germination.

Be patient and don't give up too soon. Only a few plants are needed to fill in your patch because *Tetragonia* sprawls. Irrigate frequently and pick often to keep the leaves tender and succulent and to avoid yellowing. Will withstand frosts to the low 20s. ~350 seeds/oz. ②

A=1/4oz, \$1.20 B=1/2oz, \$2.20 C=1oz, \$3.60 D=4oz, \$7.00
E=1lb, \$19.00 K=5lb, \$90.00



LETTUCE

~LACTUCA SATIVA~

1 gram packet sows 25 ft; 2 grams, 50 ft; 1 oz, 500-700 ft. Varieties average 875 seeds/1g pkt, or 1,750 seeds/2g packet. All lettuce is open-pollinated.

"I wish my work to be shared, not monopolized."

-Lettuce breeder extraordinaire Frank Morton

Genetic engineering is not the only ethical issue in seed production. A new and disturbing trend in lettuce is the prevalence of trait- and utility-patented varieties in seed catalogs. One of our competitors listed more than one third of its lettuce varieties as utility- or trait-patented. Utility patents stand the traditional rationale for variety protection on its head. The original reason advanced in its support was to offer breeders an economic incentive to develop new varieties for agricultural improvement. Utility patents, by extending ownership beyond individual varieties to their traits (such as heat tolerance and leaf color) that are found in nature, stultify any possible future breeding improvements by monopolizing those traits and uses that rightfully belong to the commons, cutting off any further opportunity for any other breeder to work with them. Once traits are tied up in private hands, varietal improvement comes to a halt. You will not find any trait- or utility-patented varieties in the Fedco catalog because such patents are against our ethics. Free the seed! Use seeds in the public domain and shun utility-patented varieties. For more information see page 3.

Also, Morton has great essays in more depth on these topics in his recent seed catalogs, wildgardenseed.com. **Culture:** May be started indoors in March and at regular intervals thereafter, or sowed outdoors as soon as ground can be worked. Many varieties won't germinate in soil temperatures above 75° and most shut down above 80°. Where available, we present data here from a California germination experiment at 84°.

Hardy. All save icebergs tolerate heavy frost. Grow best in cool weather with ample moisture, many kinds suffer bottom rot and tipburn in heat; select summer varieties carefully. Use shade cloth to keep summer lettuce tender and sweet longer. Sesquiterpene lactones, chemicals produced in the milky latex, render lettuce bitter when it bolts.

Sow every 2 weeks for continuous supply. Lettuce will not head unless thinned frequently and ruthlessly to final distance of 1'. Heavy nitrogen feeders.

The snowflake symbol ❄ after a cultivar description indicates that a variety is hardy through at least a part of our Maine winter.

Minimum germination soil temperature 35°, optimal range 40-80°, optimal temperatures 70-75°. Emergence takes 15 days at 41°, 7 days at 50°, 3 days at 68°, 99% normal seedlings at 77° but only 12% normal at 86°.

Days to maturity are from direct seeding.

Diseases: For more information see the sidebar on p. 40.

- BOR Bottom Rot
- DM Downy Mildew
- LMV Lettuce Mosaic Virus
- PM Powdery Mildew
- SC Sclerotinia
- TB Tipburn
- X Xanthomonas

"Thanks for taking stand against utility patents."
-Dave Trumble, Good Earth Farm, Weare, NH



LOOSELEAF AND OAKLEAF

2712BO Black Seeded Simpson OG (42 days)

The earliest and most popular looseleaf variety. "One of our absolute favorites for early season production with heads up to 16" diameter," says NY State market lettuce grower Lisa Bloodnick. Large loose crumpled juicy light-green leaves slightly ruffled and blistered. Inner leaves tender and well blanched. Does not stand heat well; sow as early as ground can be worked. Probably originally from England circa 1850, this heirloom was introduced by Peter Henderson & Co. of New York around 1875. Germination showed some tolerance to warm temperatures. Resists DM and TB. CCOF-certified. ③

A=2g, \$1.10 B=4g, \$2.00 C=14g, \$3.50
D=28g, \$5.50 E=112g, \$12.00 K=448g, \$40.00

2713GO Green Ice OG (45 days) Burpee's well-known variety, a cross between a compact butterhead type and large looseleaf varieties was thirteen years in the making and the first variety patented under the 1970 Plant Variety Protection Act. Its PVP has long since expired. This shiny crinkly looseleaf with fringed leaf margins is firm and crunchy in salads. Slow to bolt, but gets tough in the centers. MT-certified. ①

A=1g, \$1.80 B=2g, \$3.30 C=4g, \$5.50 D=14g, \$8.50
E=28g, \$14.00 K=112g, \$48.00

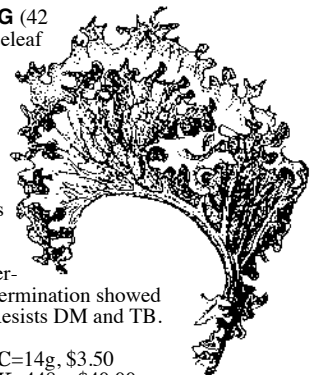
2715LO Balady Aswan OG (45 days) An ancient form of native Egyptian celcuce that is customarily allowed to bolt and enjoyed for its 12-14" crunchy stems with creamy flavor. Its sweet emerald-green leaves resemble those of **2716 You Mai Tsai** but not quite as pointy. They make a tall rosette, taste like regular lettuce leaves without bitterness and can be harvested anytime, remaining sweet and crispy like **2731 Cracoviensis** even after bolting. Aswan began bolting only 3-4 weeks after its June 17 transplanting. Frank Morton says celcuce was a symbol of virility in ancient hieroglyphs but we make no unsubstantiated claims for this unusual lettuce. OT-certified. ①

A=1g, \$2.30 B=2g, \$4.20 C=4g, \$8.00
D=14g, \$15.50 E=28g, \$30.00 K=112g, \$110.00

Yu Mai Tsai (45-60 days) Also known as Sword Leaf or Pointed Leaf lettuce. Consult our website for availability and price.

2719BO Bronze Arrowhead OG (46 days) This Arrowhead scores a bullseye for form and color, developing a gorgeous oakleaf rosette in a dance of green and bronze. Introduced as Bronze Beauty by the Germania Seed & Plant Co, this bronze was given a bronze medal by the AAS judges in 1947. A good variety for mesclun and cut-and-come-again culture. Very slow to bolt. OT-certified. ①

A=1g, \$1.40 B=2g, \$2.60 C=4g, \$4.00
D=14g, \$7.00 E=28g, \$12.50 K=112g, \$45.00



Salad Bowl (46 days) Bright-green frilly notched leaves form compact rosette. Stands heat better than Black Seeded Simpson, but at its best in cool weather, not summer. 1952 AAS bred by Ross Thompson of the USDA. Has survived outside temperatures of 18° double-covered under Agribon 19.

2722SB Salad Bowl ②

A=2g, 90¢ B=4g, \$1.50 C=14g, \$2.50 D=28g, \$3.80
E=112g, \$7.00 K=448g, \$18.00 L=5lb, \$82.00

2723SO Salad Bowl OG CCOF-certified. ③

A=2g, \$1.10 B=4g, \$2.00 C=14g, \$3.50 D=28g, \$6.50
E=112g, \$12.50 K=448g, \$46.00 L=5lb, \$200.00

Red Salad Bowl (46 days) Compact frilly rosettes of spectacular bronzed oakleaves. Red at tips and on young growth, green at the base of the leaves. Nice buttery flavor. One of our most popular lettuces. A staple mesclun ingredient. Grows quite large in cool weather, but prone to bitterness and bolting in heat. Withstood outdoor temperatures of 14° double-covered under Agribon 19. Some warm-temperature germination tolerance. Introduced in 1955. Resists TB.

2728RS Red Salad Bowl ②

A=2g, 90¢ B=4g, \$1.50
C=14g, \$2.50 D=28g, \$3.80
E=112g, \$7.00 K=448g, \$18.00
L=5lb, \$82.00

2729RO Red Salad Bowl OG Improved stock features darker, more vibrant leaves and enhanced PM resistance. CCOF-certified. ③

A=2g, \$1.10 B=4g, \$2.00
C=14g, \$3.50 D=28g, \$6.50
E=112g, \$14.00 K=448g, \$49.00
L=5lb, \$240.00

2731CO Cracoviensis OG (47

days) My absolute favorite of all the lettuces. Seed Savers curator M. Schultz shared, unlike any other in size, shape or colors. Cracoviensis is where the red meets the green, making a dazzling twisting rosette with heavy purple accenting, especially towards the center. Plants grow fast and very large and quickly send up seed stalks (a seed grower's dream), even called by Scott Paquin "Bolt-o-viensis," but their tender buttery flavor doesn't give way to bitterness even after they bolt. Customers in NJ and MA have reported success overwintering it. Listed as a distinct type, Asparagus Lettuce, in *The Vegetable Garden* by Vilmorin-Andrieux (1885). Highly prized in China where they peel and eat the thick fleshy stems like asparagus, a practice that chefs have adopted here.

1996. OT-certified. ①

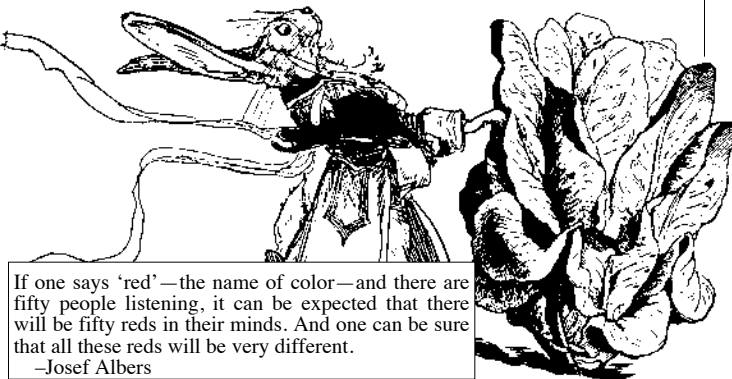
A=1g, \$1.40 B=2g, \$2.60 C=4g, \$4.00 D=14g, \$7.00
E=28g, \$13.00 K=112g, \$48.00

2732GO Strela Green OG (47 days) From Alan Kapuler via Schultz. Nikos likened the rough-textured green leaves to donkey ears. We had never seen anything quite like its large star-shaped rosette. According to Schultz, "pointed spear-shaped leaves erupt from the center like an explosion, spectacular and decorative." Sweet and without bitterness, Strela performed well in summer plantings, withstanding meager heat waves with aplomb. OT-certified. ①

A=1g, \$1.50 B=2g, \$2.80 C=4g, \$5.20 D=14g, \$8.00
E=28g, \$14.00

2738AO Antares OG (48 days) A shimmering pink and bronze oakleaf growing vigorously to magnificent size. The extra-frilled finely cut bright leaves are colorful and tender, not bitter even in early July. Antares puts on a terrific show especially when started indoors, transplanted early in spring and allowed ample space. Bred by Frank Morton of Wild Garden Seed in Oregon out of a combination of **2722 Salad Bowl** and **2865 Rouge d'Hiver**. OT-certified. Ω ①

A=1g, \$1.70 B=2g, \$3.20 C=4g, \$5.50 D=14g, \$11.00
E=28g, \$19.00 K=112g, \$55.00



If one says 'red'—the name of color—and there are fifty people listening, it can be expected that there will be fifty reds in their minds. And one can be sure that all these reds will be very different.

—Josef Albers

2740DO Green Deer Tongue OG (48 days) Also known as Matchless, this venerable heirloom goes back to the 1740s. This and **2744 Really Red Deer Tongue** are the only deer tongues you will ever want to see in your garden! Characteristic thick green pointed leaves radiating from a compact center. Slow to bolt. Has a rich nutty flavor that doesn't turn bitter. OT-certified. ①

A=1g, \$1.40 B=2g, \$2.60 C=4g, \$4.00 D=14g, \$7.00
E=28g, \$13.00 K=112g, \$48.00

2744RO Really Red Deer Tongue OG (48 days) We revered the old Red Deer Tongue for its history and its classic leaf shape, but not for its pallid color and vulnerability to diseases. Morton combined the old-timer with his own **2773 Hyper Red Rumble**. Waved to develop a whole series of Really Red breeding lines. Morton then re-selected his gene pool for deep red color, pronounced white-green contrasting veins and pointed deer-tongue



leaves for a more finished variety with much less variation, a stunning improvement over the original Red Deer Tongue. From Hyper comes heightened resistance to SC, DM, X and TB. Although not among the best summer lettuces, RRDT stands heat better than its forebears and does not bolt as readily.

2005. OT-certified. Ω ①

A=1g, \$1.70 B=2g, \$3.20
C=4g, \$5.50 D=14g, \$11.00
E=28g, \$19.00 K=112g, \$55.00

2754PZ Prizehead (48 days) Crinkly outer leaves tinged with red. Superior flavor. Very popular market type. Bloodnick says "grows large and heavy in spring, not so big in summer." Anne Elder reports it has produced the "heaviest heads we've ever grown in 23 years." Bolts in heat.

Listed in 1873 by D.M. Ferry & Co. and offered by Burpee under the name Tomhannock in 1886. ②

A=2g, 90¢ B=4g, \$1.50
C=14g, \$2.50 D=28g, \$3.80
E=112g, \$7.00 K=448g, \$16.00

2761RO Red Sails OG (49 days) 1985 All-America winner has become almost synonymous with red leaf lettuce.

A most attractive large plant with purplish red-splashed leaves, Red Sails is slow to become bitter or bolt, even in heat. 10–16" rosettes serrated with bubbled frills. Lightly crunchy lobes with a good melting texture. Handle with care, as brittle midribs break easily during washing and packing. Highest rated of 13 lettuces for vigor in OSU trial. Dependable for wholesale markets. CCOF-certified. ①③

A=2g, \$1.70 B=4g, \$3.20 C=14g, \$7.00 D=28g, \$12.50
E=112g, \$34.00

2764BO Blushed Butter Oaks OG (49 days) This 1997

Fedco introduction, one of a new class of lettuces developed by Morton, aroused immediate interest. Best described as a compact oakleaf butterhead, with a delightful combination of pink and green colors and a buttery taste, Blushed Butter Oaks was a hit with everyone who saw it or sampled it at our trial. Has some frost tolerance.

1997. OT-certified. Ω ①

A=1g, \$1.80 B=2g, \$3.30 C=4g, \$5.60 D=14g, \$12.50
E=28g, \$20.00 K=112g, \$64.00

2766YO Australian Yellow OG (50 days) In our trial the opalescent yellow-green leaves burst out of the gate with rapid growth yet were still holding their quality on July 19 when Waldmann's had bolted. Glossy yellow in the early stages, seedlings become more green as they mature, with the crinkly quality of a spinach and a sweet taste augmented by the barest hint of bitter. Frank Morton's strain is the best we have found. Though Australia is more famous for its squashes, this is another worthy émigré from Down Under. OT-certified. ①

A=1g, \$1.70 B=2g, \$3.20 C=4g, \$5.50 D=14g, \$11.50
E=28g, \$20.00 K=112g, \$62.00

2767DO Les Oreilles du Diable (Devil's Ears) OG (50 days) One of the lovely rare treasures once maintained by the Abundant Life Seed Foundation. A standout in our plots where we greatly preferred it to Red Deer Tongue. This is deer tongue with real color and good heat tolerance. Starlike rosettes of tasty glossy leaves are deeply tinged with burgundy for a shimmering appearance. We enjoyed its nutty texture and bitter-free flavor. One of the last to bolt. OT-certified. ①

A=1g, \$1.60 B=2g, \$2.70 C=4g, \$4.00 D=14g, \$6.00
E=28g, \$11.00 K=112g, \$40.00

Lingua di Canarino (Canary Tongue) OG (50 days) Crop failure; not available in 2017.

Ω Independent plant breeders, continuing a long tradition of adapting varieties to local tastes and conditions, are the backbone of culture. For the most part eschewing plant patents, their work is their reward. Fedco is committed to buying seed from small breeders to give economic support to their work. Though we can find cheaper seed elsewhere, we prefer not to compromise on quality or ethics. We hope you agree—by purchasing seed with the Ω symbol.



2769WL Waldmann's (50 days) Market growers appreciate these large handsome heads of bright green crinkly leaves. Attractive pre-1880 heirloom Grand Rapids-type for market. Appearance and texture superior to Green Ice, but not as heat tolerant. Gets bitter toward mid-July, earlier in drought. Showed some warm-temperature germination tolerance. Resists TB. ②④

A=2g, 90¢ B=4g, \$1.50 C=14g, \$2.50 D=28g, \$4.00
E=112g, \$7.00 K=448g, \$16.00

2771YO Royal Oakleaf OG (50 days) Darker, larger and fancier than most other green oakleaf types, and recommended for market growers. Our supplier calls it the "Rolls Royce of oakleaf lettuces." Bloodnick describes it as "a large spiky oakleaf that looks like a lettuce with a bad hair day." She finds it always sweet and considers it a "must grow." Germination is intolerant of warm temperatures. CCOF-certified. ③

A=1g, \$1.20 B=2g, \$2.20 C=4g, \$3.50 D=14g, \$7.50
E=28g, \$12.00 K=112g, \$32.00

2772MR Midnight Ruffles (50 days) You won't find a fancier quality lettuce at this price! This red-leaf summer lettuce with sweetness, buttery crunch and no bitter aftertaste won plaudits from our 2014 trialers and starred again in my 2015 grow-out. Grown to full head size, its deep burgundy leaves and veins and handsome contrasting white ribs undulate with ruffled edges, forming an open loose mid-sized head 11" across. This frilly sweet red held out against BOR and bolting until July 20. ③

A=1g, \$1.10 B=2g, \$2.00 C=4g, \$3.00 D=14g, \$5.00
E=28g, \$8.00 K=112g, \$20.00

2773HO Hyper Red Ruple Waved OG (50 days) If you are drawn to really deep red lettuces, consider Hyper Red. Selecting from a cross between Valeria, a very red cold-tolerant lollo rossa, and Wavy Red Cos, an undulating savoyed red romaine, Frank Morton bred Hyper to accentuate pigmentation and ruffling. The striking result tastes good with a pleasing texture. Holds for a while in July before succumbing to heat. Good cold tolerance. No warm-temperature germination tolerance. Resistant to X, SC, DM and TB. OT-certified. ①

A=1g, \$1.80 B=2g, \$3.30 C=4g, \$5.60 D=14g, \$12.00
E=28g, \$20.00 K=112g, \$62.00

2775FO New Red Fire OG (51 days) Fire has gained a well-deserved popularity with commercial growers. Has Sails' characteristic ruffled leaves, though slightly lighter coloration, and good size. Has been among the last to bolt, lasting as late as July 29. Also quite cold-hardy. Tender sweet flavor with almost no bitterness. Resists BOR, DM, TB. CCOF-certified. ①

A=1g, \$1.40 B=2g, \$2.60 C=4g, \$3.50
D=14g, \$8.00 E=28g, \$14.00 K=112g, \$40.00

2781XO Merlox Red Oak OG (53 days) Frank Morton's first release of a new class of "Merlox variations" combines the ultra-dark pigmentation of 2789 Merlot with the superior flavor of larger Emerald Oak. This initial variation boasts showy deep maroon oak leaves with just a hint of green in their centers and not much bitterness at all despite their extreme color. The compact leaves have wavy margins. Merlox shows promise as a winter lettuce. Left outdoors in Central Maine with no row cover, mulched only by a generous snow cover, 67% overwintered and were ready to eat in early May. Bred with strong horizontal resistance to DM and SC. OT-certified. * ①

A=1g, \$2.60 B=2g, \$5.00 C=4g, \$9.50 D=14g, \$22.00
E=28g, \$42.00 K=112g, \$145.00

2783SO Slobolt OG (53 days) This long-time favorite goes organic in our catalog. Slow early growth is the key to Slobolt's success as a summer lettuce. A Grand Rapids-type with much paler green leaves than Waldmann's, Slobolt often will hold well into July. Slobolt is versatile: one grower in NY reported good results growing it in winter under lights as well as tightly spaced in his summer garden. Introduced 1946 by USDA. Showed some ability to germinate in warm temperatures. MOSA-certified. ②

A=2g, \$1.70 B=4g, \$3.20 C=14g, \$8.00 D=28g, \$14.00
E=112g, \$50.00

Supplier Codes Know where your seed comes from! See page 4 for details.

- ① Small seed farmers including Fedco staff.
- ② Family-owned companies or cooperatives, domestic and foreign.
- ③ Domestic and foreign corporations not part of a larger conglomerate.
- ④ Multinationals not to our knowledge engaged in genetic engineering.
- ⑤ Multinationals who are engaged in genetic engineering.
- ⑥ Manufacturers of neonicotinoids: Bayer and Syngenta.

2784FO Flashy Green Butter Oak OG (54 days) Spectacular marriage of the quintessential oakleaf form with the speckling of the troutbacks. Not only beautiful but also amazingly tasty, crunchy with a delightful buttery texture. Emerald Oak crossed with Flashy Trout Back yields rich lime-green leaves with pronounced dark speckles. Lettuce as art form, with Morton mixing texture, color, flavor and shape like a master. OT-certified. ①

A=1g, \$1.70 B=2g, \$3.20 C=4g, \$5.50 D=14g, \$11.50
E=28g, \$19.00 K=112g, \$56.00

2785TO Italienischer OG (55 days) If 2771 Royal Oakleaf is the Rolls Royce of oakleaf lettuce, then Italienischer must be the Maybach (without the sticker shock!) Compared to Royal it was more vigorous with bigger outer leaves, a better taste and texture, and less bitterness. Good, juicy and mild-flavored. Upright sturdy 18" bright green plants can take some heat and are slow to bolt. Give these huge bounteous beauties plenty of space. Some is black-seeded, some white-seeded, both true-to-type. OT-certified. ①

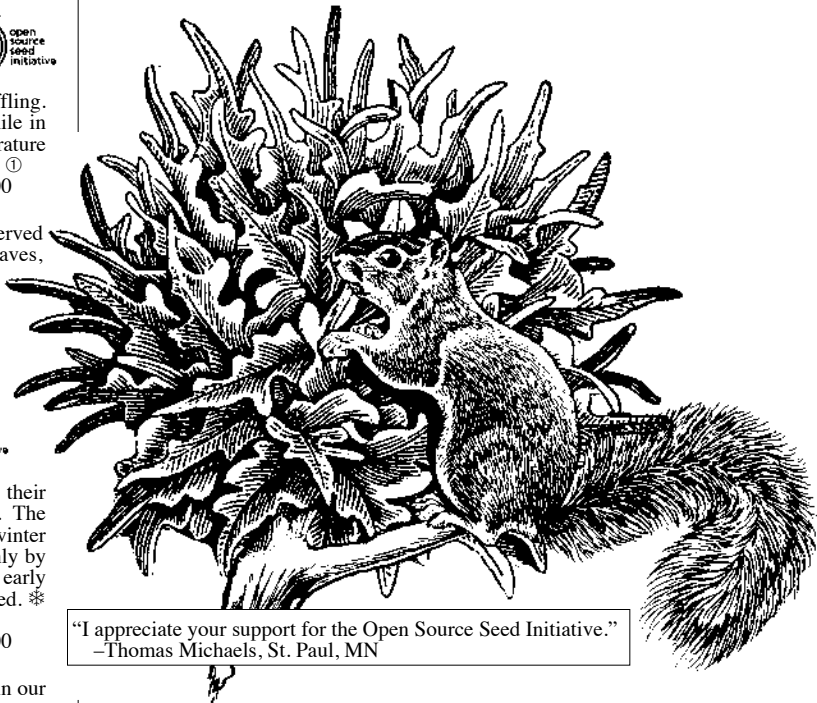
A=1g, \$1.50 B=2g, \$2.80 C=4g, \$4.00 D=14g, \$7.50
E=28g, \$13.00 K=112g, \$44.00

2786WO Red Tinged Winter OG (60 days) A leaf lettuce for three seasons introduced by Beth and Nathan Corymb of Meadowlark Hearth who selected and multiplied it from heirloom seed they brought from Europe. A hardy survivor in Roberta's overwintering test. Hildy Danforth of Shelburne, NH, said that "it was the best I've seen in my fall greenhouse and I've grown every lettuce with the word 'winter' in its name." Sow to mature in fall or late fall, or start in fall to overwinter and rally for major production in spring. The slightly ruffled leaves are green in the center and lightly tinged with bronze toward the tips. They turn quite bitter in heat, so not for summer production. WA-certified. * ①

A=1g, \$1.60 B=2g, \$3.00 C=4g, \$4.80 D=14g, \$8.00
E=28g, \$14.00 K=112g, \$49.00

2787BO De Morges Braun OG (64 days) This bronze beauty is noteworthy among the hundreds of lettuces we've grown for its shimmery color and smooth buttery texture. Grows upright like a romaine as it matures, the center forming a green contrast to the pink outer leaves. De Morges grows slowly, never develops bitterness and is one of the last to bolt. We owe our awareness of it to Schultz. OT-certified. ①

A=1g, \$1.50 B=2g, \$2.80 C=4g, \$4.00 D=14g, \$9.00
E=28g, \$15.00 K=112g, \$50.00



"I appreciate your support for the Open Source Seed Initiative."
-Thomas Michaels, St. Paul, MN

Pest: Aster Leafhopper (vector for Aster Yellows disease)
Cultural controls: control perennial broadleaf weeds near lettuce plantings, plow lettuce fields immediately after harvest.

Pest: Slug
Cultural controls: avoid mulch or nearby grassy areas.
Material: Sluggo (8664-7)

Disease: Bottom Rot
Cultural controls: rotate with grass-family green manures, plant in well-drained soil or on raised beds, more upright varieties escape infection.

Diseases: Downy Mildew, Grey Mold, White Mold
Cultural controls: rotation, reduce duration of leaf wetness, plant parallel to prevailing winds, use wide spacing, control weeds, use well-drained fields in spring and fall.
Material: Actinovate (8634)

CUTTING LETTUCE

27880O Oscarde OG (30 days baby, 45 days mature) This industry standard, a classic miniature oakleaf growing low to the ground, has inspired several imitations that aren't quite as good. Its red leaves, darkest of their type in our trials, shade to bright green at their hearts. Ideal for greenhouse culture in cold weather, also a good performer outdoors in spring and fall. May be cut for mesclun or baby leaf. Resists most races of DM. OT-certified. * ①

A=1g, \$2.60 B=2g, \$5.00 C=4g, \$9.50 D=14g, \$22.00
E=28g, \$40.00

2789MO Merlot OG (32 days baby, 60 mature) William Woys Weaver correctly predicted that this lettuce would become a classic. Always a standout in our trials, its intense burgundy color the richest we have ever seen. The Dutch company who bred it named it Galactic, but Cook's Garden trumped them by calling it Merlot. This merlot adds as much to your baby salad mix as a good wine adds to your dinner, providing color, excitement and full-bodied flavor. Slow to grow, slow to bolt, plants never achieve much size or density, but are ideal for the baby-leaf trade. Not for mature-head production, so may be spaced more closely than other varieties. According to Mountain Dell Farms (growing at 1400' in the Catskills), can stand outside temperatures to 14° when double-covered under Agribon 19. Showed good resistance to BOR in recent challenging wet Julys. Germinates poorly in warm temperatures. Also resistant to X, DM, SC and TB. OT-certified. ①

A=1g, \$2.10 B=2g, \$3.50 C=4g, \$5.50 D=14g, \$12.50
E=28g, \$21.00 K=112g, \$80.00

2791TO Tango OG (45 days) For many commercial growers, Tango is the looseleaf of choice for overwintering and for productivity in cool weather. A frilly standard in salad mixes and mesclun adding loft and interesting texture. Could be called the endive of lettuces for its deeply cut pointed leaves. The pleasant flavor, however, has none of endive's bitterness. Bolts readily in hot summer, so plant accordingly if you want it to grow to full maturity. MOSA-certified. * ②

A=1g, \$1.30 B=2g, \$2.50 C=4g, \$4.00 D=14g, \$7.50
E=28g, \$10.00 K=112g, \$30.00

2792RO Revolution OG (48 days) As rich a red lollo rosso as anyone could want. Enjoy its intensely colored 10-12" deeply frilled thick crunchy leaves. This Revolution can hold a very long time without developing much bitterness. Before the hot summer sun brings about that inevitable reaction, guillotine it with your garden shears or cutting knife. OT, Stellar NOP-certified. ②

A=1g, \$1.60 B=2g, \$3.00 C=4g, \$5.00 D=14g, \$10.00
E=28g, \$16.00 K=112g, \$52.00

2793LO Dark Lollo Rossa OG (53 days) A much darker version of 2796 Lollo Rossa, holding its color even under row covers, in tunnels or during prolonged cloudy periods. Our trialer describes it as "fat, curly and very red." Adds color, texture and loft to baby leaf mixes. Begin snipping after only four weeks. Develops bitterness if allowed to size up in heat. CCOF-certified. ②

A=1g, \$1.30 B=2g, \$2.50 C=4g, \$4.00 D=14g, \$5.50
E=28g, \$9.50 K=112g, \$30.00

2795VO Lollo di Vino OG (56 days) Called by its originator Frank Morton a "distinctive little frizzlehead," di Vino stands out for its extreme dark purple color that originated in its Merlot parentage. Has the beautiful ruffles and curls of vintage lollo, but a mildness uncharacteristic of deeply pigmented lollos. Its distinctive lack of bitterness allows the harvest to extend longer into summer than any other dark lollos we have tried. That and its compact beauty assure its place in my patch. OT-certified. ② ①

A=1g, \$2.00 B=2g, \$3.60 C=4g, \$6.50 D=14g, \$17.00
E=28g, \$30.00 K=112g, \$95.00

2796LR Lollo Rossa (58 days) For loft and texture, used in salad mixes and as an accent or garnish, this ornamental delight was enthusiastically embraced by gourmet restaurants. Frizzy foliage is light red on top, light green at base, melding into an eye-catching display. Very cold hardy. This strain is not as colorful as 2793 and 2795, but it was milder, less bitter, and slower to bolt than others in our trials.

Introduced in 1987 by Royal Sluis. * ③

A=1g, \$1.20 B=2g, \$2.20 C=4g, \$3.50 D=14g, \$7.50 E=28g, \$12.00 K=112g, \$32.00



Butterflies are attracted to the color green during egg-laying, and avoid it when feeding.

BIBB and BUTTERHEAD



2803TT Tom Thumb (46 days)

Miniature butterhead makes an early small tightly bunched head. Outer leaves light-medium green, centers creamy white with a pleasant buttery taste. Very attractive for early markets. Can be spaced quite closely as the heads seldom exceed 5" in diameter. Introduced in England by H. Wheeler & Sons in 1858, it came to the States ten years later courtesy of Gregory. One customer wrote to Burpee's in 1894, "It is just what the gardener wants... a good dwarf variety, a quick grower." ② ④

A=2g, \$1.00 B=4g, \$1.60
E=112g, \$7.20 K=448g, \$18.00

2805BM Bronze Mignonette (46 days) This small ruffled bronze-tinged butterhead captivated me in the trials. Because Mignonette is only slightly larger than Tom Thumb, it is ideal for baby vegetable enthusiasts. Peter Henderson named and marketed it to several seed houses around 1898. ②

A=2g, 90¢ B=4g, \$1.50 C=14g, \$2.50 D=28g, \$3.80
E=112g, \$7.00 K=448g, \$16.00

2811BU Buttercrunch (50 days) Our trials evaluator calls it "the cucumber of lettuce, smooth and soothing with a green refreshing flavor." A 1963 All-America selection developed by Dr. G.L. Raleigh at Cornell. Dark green outer leaves with creamy center heart. Bloodnick praises its "sweet, succulent broad mid-ribs." Slow to bolt, but can be prone to bottom rot. Always our best-selling lettuce. Some ability to germinate in warm temps. ④

A=2g, 90¢ B=4g, \$1.50 C=14g, \$2.50 D=28g, \$3.80
E=112g, \$7.00 K=448g, \$16.00

2814NO North Pole OG (51 days) We don't wait for Santa Claus—we have a seed grower out west producing this popular extremely cold-hardy butterhead for us. Protected only by snow cover, all of Donna Dyrek's plants survived a mild Zone 4 Maine winter outdoors. Can be set out under cover 2-3 weeks before first frost to aim for 4-6" plants at the onset of winter weather. Will resume vigorous growth as days grow longer, tolerating spring frosts. Elegant lime-green 6-8" buttery heads, sweet and tasty, won my praise on June 21 in my 1999 trial but by July 3 had turned bitter and bolted. Not for summer, but suited for the other seasons. OT-certified. * ①

A=1g, \$1.80 B=2g, \$3.40 C=4g, \$5.60 D=14g, \$10.20
E=28g, \$18.00 K=112g, \$40.00

2816MO Winter Marvel OG (52 days) Polly Gottesman of Pumpkin Ridge Gardens, North Plains, OR, wrote, "Here in Zone 7 Winter Marvel is bar-none the best overwintering lettuce we grow... We start harvesting outer leaves for salad mix in December... they continue producing without bolting through March." A large fancy light green butterhead recommended for fall production and overwintering where the climate permits. Grows rapidly, but bolts readily in summer heat. If you are sowing in spring for an early summer butterhead, the harvesting window is very narrow. An old European variety. Do not sow in soil temperatures over 80°. OT-certified. * ①

A=2g, \$1.70 B=4g, \$3.20 C=14g, \$5.50 D=28g, \$10.00
E=112g, \$18.00 K=448g, \$45.00

2828PO Pirat OG (55 days) From Germany, also known as Sprengel and Brauner Troztkopf. Elegant green butterhead with light brown pebbling. Heads like loose large softballs at maturity. Has a delicious smooth taste with creamy texture, and holds well except in prolonged wet spells. Descended from Merveille des Quatre Saisons but much more bolt resistant. Stellar NOP-certified. ①

A=1g, \$1.70 B=2g, \$3.20 C=4g, \$5.50
D=14g, \$10.00 E=28g, \$18.00 K=112g, \$60.00

2831SO Speckled Amish OG (55 days) An ornamental bibb of spectacular beauty, its apple-green leaves splashed with maroon flecks, a stunner whether in your garden, on your table or in your salad. Small firm mild-flavored heads shaped like Merveille des Quatre Saisons, centers with soft leaves blanching creamy yellow. Mennonites brought seed in a covered wagon from Lancaster County, PA, to Ontario in 1799. Introduced into commerce in 1880 as Golden Spotted. Morton, who got the stock seed from Seed Savers Exchange, has been selecting to alleviate TB. OT-certified. ①

A=1g, \$1.80 B=2g, \$3.40 C=4g, \$5.80
D=14g, \$10.50 E=28g, \$19.00 K=112g, \$52.00

2834VO Sweet Valentine OG (56 days) A real sweetheart of a lettuce, Valentine combines magnificent beauty with mild sweet taste. Beginning as a large spreading bronzed butterhead with rounded veined leaves, it matures into a romaine shape. Has been very slow to bolt even in hot dry conditions. Flavor is more delicate, soothing and less bitter before it assumes romaine configuration. QCS-certified. ②

A=1g, \$1.50 B=2g, \$2.80
C=4g, \$4.50 D=14g, \$10.00
E=28g, \$18.00 K=112g, \$49.00



2836YO Red-Eared Butterheart OG (56 days) Not a true butterhead, instead looks like a cross between **2744 Really Red Deer Tongue** and a red Boston. Its red ears—dark pointy leaves—are shorter, broader and more buttery and folded than RRDT and the plant is less upright. Pronounced veins are green, shading toward red in the center, and contrast with its dark red leaves to give it striking good looks. Completely free of BOR, even in wet years. Allow generous space to accommodate its vigorous growth. Still showed a small amount of variation in my trial. OT-certified. Ω ①

A=1g, \$1.80 B=2g, \$3.40 C=4g, \$6.40 D=14g, \$13.00
E=28g, \$22.00 K=112g, \$80.00

2839KS Kagraner Sommer (58 days) Elegant pale green heads of exceptional quality. “For years has been our main summer lettuce. A great heat resister,” lauds Anne Elder. ②

A=2g, \$1.00 B=4g, \$1.80 C=14g, \$5.00 D=28g, \$8.00
E=112g, \$20.00 K=448g, \$50.00

Nancy (58 days) No crop this year. *Not available in 2017.*

2846KP Kinemontpas (60 days) This pale green butterhead grows enormous and is very slow to bolt even in heat. Darker green and larger than Kagraner Sommer, with a dense buttery texture and pleasing mellow taste. Lettuce collector M. Schultz brought this classic French heirloom to our attention. ②

A=1g, \$1.10 B=2g, \$2.00 C=4g, \$3.50 D=14g, \$7.00
E=28g, \$11.00 K=112g, \$35.00

2849WD Winter Density Bibb/Romaine (60 days) Also known as Craquerelle du Midi, a French heirloom from the 19th century. Is it a bibb or a romaine? Any way you look at it, its thick tender dark green leaves make superb eating. Starts out looking like a bibb then wrapper leaves fold tightly, forming a head like a romaine when mature. Combines the substance of romaine with the tender succulence of bibb. No warm-temperature germination tolerance. * ②

A=2g, \$1.10 B=4g, \$2.00 C=14g, \$3.00 D=28g, \$5.50
E=112g, \$10.00 K=448g, \$30.00

ROMAINE and COS

According to Twin Oaks grower Pam Dawling, romaine lettuces have double the vitamin A and C content of the other kinds.

2852PO Pandero OG (44 days baby, 63 days mature) Runaway star of 32 varieties in my 2013 lettuce plot, this very deep purple version of a compact Winter Density-type mini-romaine develops pronounced color early and keeps it through its entire growth cycle. It is best sowed early and harvested small for salad mix or baby romaine because it will bolt in heat. Planting for fall allows it to mature its striking self-contained 6" head. Cold-tolerant, it suffered only sparse BOR during recent wet Junes. Our tasters rated it sweet, mild and juicy with good crunch. Originally from England, brought to the States by Adaptive Seeds in Oregon. OT-certified. ①

A=1g, \$2.40 B=2g, \$4.60 C=4g, \$8.40 D=14g, \$19.00
E=28g, \$35.00 K=112g, \$120.00

2854BO Blushed Butter Cos OG (49 days) A combination butterhead-romaine with ruffled savoyed leaves dappled in an attractive palette of reds and greens. Butter Cos was judged to be #1 for taste out of more than 100 lettuces in our 1996 trial. Remarkably crisp for such a buttery taste. 🐸1997. OT-certified. Ω ①

A=1g, \$1.80 B=2g, \$3.40 C=4g, \$5.60 D=14g, \$12.00
E=28g, \$22.00 K=112g, \$64.00

“Fedco is the best. You are true allies on the side of production farmers and the catalog will hopefully never move to the right.”
—Brett Grohsgal, Lexington Park, MD

Key to abbreviations and symbols

- OG** after cultivar name = entire lot is certified-organic seed.
- ECO** after cultivar name = entire lot is sustainably grown seed.
- BD** after cultivar name = entire lot is biodynamically grown seed.
- PVP** = Plant Variety Protected.
- AAS** = All-America Selection.
- * indicates cold-hardy through at least part of the Maine winter. See page 45 for more information.
- 🐸 = a variety introduced by Fedco followed by the year first offered.
- Ω = a variety grown and supplied by the plant breeder. More on page 39.
- 🌼 = a variety especially attractive to pollinators.
- ~ = approximately

2856JO Mayan Jaguar OG (51 days) The mottled maroon spots on the dark green ruffled leaves might have suggested the markings on a jaguar’s coat to Morton. Although I’ve grown a lot of these trendy splotched lettuces in the last decade, this cat wins the blue ribbon for most vibrant color definition. And it has great flavor, too, sweet juicy veins, blushed pink hearts and what the breeder refers to as “that bone crusher romaine crunch!” Because it gets off to such a quick start, yet doesn’t grow very large or thrive in the most intense July heat, it is a great candidate for early salad or mesclun. Fierce colors, snarly crunch, but really a pussycat at heart. OT-certified. Ω ①

A=1g, \$2.40 B=2g, \$4.60 C=4g, \$8.40 D=14g, \$19.00
E=28g, \$35.00

2858FO Forellenschluss OG (56 days) Called by Bloodnick “the Jackson Pollack of lettuces.” Also known as Freckles or Trout Back, an heirloom from Arche Noah, the Austrian genetic preservation project. An absolutely gorgeous romaine with the delicate taste and texture of a butterhead, distinguished for its deep green leaves flecked with wine-red splotches. Lately we’ve seen increasing variation in the coloration and degree of splotching. The best-tasting of the 50 lettuces in our 1998 trial. Very buttery tender leaves may be harvested at 4–6” for mesclun or allowed to grow full size for maximum ornamental benefit. William Woys Weaver traced Forellenschluss back to 1793; it was a dwarf variety of Spotted Aleppo developed in Germany. More upright and cup-shaped than **2831 Speckled Amish**, with larger and darker splotches and better heat tolerance. Some warm-temperature germination tolerance. CCOF-certified. ③

A=1g, \$1.30 B=2g, \$2.40 C=4g, \$3.80 D=14g, \$7.50
E=28g, \$11.50 K=112g, \$26.00

Kalura OG (30 days baby leaf, 57 days mature) At press time availability was uncertain. Please consult our website for availability and prices.

2860MR Majestic Red (60 days) Fancy savoyed rich bronze-red leaves make Majestic positively gorgeous. Cylindrical “head” has a somewhat spreading habit. One of the slowest-bolting romaines in our trial. Developed by Sunseeds. ②

A=1g, \$1.30 B=2g, \$2.40 C=4g, \$3.80 D=14g, \$7.50
E=28g, \$11.50 K=112g, \$26.00

2861JO Jericho OG (60 days) Has become the classic summer romaine for warm regions. If the walls are tumbling down on your summer lettuce, try Jericho, bred in Israel’s hot dry climate to stand high temperatures. An imposing romaine, under fertile conditions it can grow dense hefty 2’ tall heads of light green sword-shaped upright leaves. Yet it remains crisp, juicy and unusually sweet, most years resisting TB or bolting well into July. Remains attractive even in bad years and tolerates BOR. OT-certified. ①②

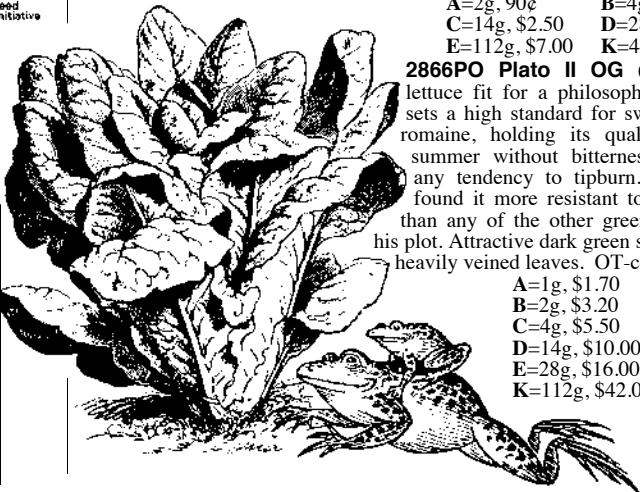
A=1g, \$1.80 B=2g, \$3.40 C=4g, \$5.50 D=14g, \$10.00
E=28g, \$18.00 K=112g, \$45.00

2862DO Better Devil OG (60 days) This Devil is finally gaining the customer appreciation it deserves. A really superior Romaine lettuce, standing out in each of my past trials. When it romaines it sends up gorgeous purple ruffled center flag leaves. Its large veins, green tinged with purple, are crunchy, juicy and sweet with just a hint of bitterness. The texture of its tapered cos-like leaves is chewy and pleasant. Recommended for early spring planting, resisted BOR and showed a moderate ability to withstand heat. Plants compact, uniform and dazzling even when crowded. Bred by lettuce maestro Frank Morton. OT-certified. Ω ①

A=1g, \$1.80 B=2g, \$3.50 C=4g, \$6.00 D=14g, \$10.00
E=28g, \$19.00 K=112g, \$55.00

2865RH Rouge d’Hiver (65 days) The true Rouge d’Hiver, black-seeded, with much deeper red outer-leaf coloration than Brune d’Hiver with which it is sometimes confused. Inner leaves are green with deeply bronzed tip, an attractive color combination. Forms a semi-open romaine head with excellent flavor, especially in cold weather. Develops pronounced bitterness in summer heat. *Hiver* means ‘winter’ and Rouge is more suitable for fall production or overwintering than for summer. French 1840s heirloom listed by Vilmorin in 1885. Resists TB. * ②

A=2g, 90¢ B=4g, \$1.50
C=14g, \$2.50 D=28g, \$4.00
E=112g, \$7.00 K=448g, \$22.00



2866PO Plato II OG (65 days) A lettuce fit for a philosopher-king, Plato sets a high standard for sweet taste in a romaine, holding its quality well into summer without bitterness, bolting or any tendency to tipburn. Morton also found it more resistant to DM and SC than any of the other green romaines in his plot. Attractive dark green slightly ruffled heavily veined leaves. OT-certified. ①

A=1g, \$1.70
B=2g, \$3.20
C=4g, \$5.50
D=14g, \$10.00
E=28g, \$16.00
K=112g, \$42.00

2874LO Olga OG (66 days) Elegant lime-green Olga won our hearts in our 2006 lettuce trials. Big upright 8" oval heads with big hearts, big flavor and slightly fringed leaves. So sweet, crisp and buttery that Morton thinks she must have some butterhead in her background. Stood considerable heat before developing slight tipburn and bitterness in August. OT-certified. ①

A=1g, \$1.80 B=2g, \$3.40
C=4g, \$5.80 D=14g, \$11.00
E=28g, \$20.00

2877MO Marshall OG (67 days) We first discovered Marshall in the Territorial catalog. Now we have our own organic production. As Merlot to looseleaves so Marshall is to romaines, the standard for color intensity. Really deep dark red leaves with contrasting pink veins, radiating to a smidgen of green in the center. Tall upright 8" heads. Leaves smooth and succulent, crisp and chewy, lacking the bitterness usually associated with such coloration. Though sales could be higher, it is a staple in our mixes and we go through a lot. Stellar NOP-certified. ②

A=1g, \$1.50 B=2g, \$2.60 C=4g, \$4.40
D=14g, \$10.00 E=28g, \$18.00 K=112g, \$55.00

2879PI Parris Island Cos (68 days) The standard market romaine developed by Clemson University and the USDA in 1952. Upright 8-9" heads fold inward to form compact centers. Interior greenish-white. Resistant to TB and bolting, even in heat. Irrigation improves its texture. Cos is an island in the Dodecanese region of Greece where this type of lettuce was named. Parris Island is in South Carolina. ②

A=2g, 90¢ B=4g, \$1.50 C=14g, \$2.50 D=28g, \$4.00
E=112g, \$7.00 K=448g, \$16.00

2883CO Crisp Mint OG (70 days) Also known as Erthel. Named for its ruffled mint-leaf appearance, not for any minty flavor. Good size, exceptional crispness and sweet flavor with little bitterness even in mid-July. This long-standing dark green romaine with an open habit and a rounded top was a standout two consecutive years. Notes from my original trial in 1999: "Lovely and delicious, crisp and sweet. Nice size, ruffled leaves, GET THIS!!" Breen said "great texture...surprisingly good!" Slow to bolt, though some tendency to TB in July heat. IA-certified. ②

A=1g, \$1.70 B=2g, \$3.20 C=4g, \$5.60 D=14g, \$11.00
E=28g, \$19.00 K=112g, \$60.00

2886WO Winter Wonderland OG (70 days) Winter Wonderland was one of the lettuces to survive Roberta's over-wintering test. Full disclosure: that test occurred in a warm winter similar to 2016, not one like the endurance contests of 2014 and 2015. A tall erect romaine with dark green leaves, we recommend Wonderland for farming the dark side of the calendar. White seed. OT, Stellar NOP-certified. * ①

A=1g, \$1.60 B=2g, \$3.00 C=4g, \$5.20 D=14g, \$10.00
E=28g, \$18.00 K=112g, \$55.00

BATAVIAN

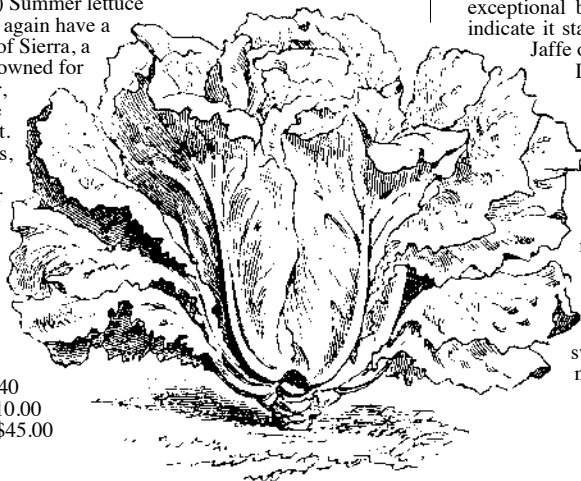
Batavians have good hot-weather germination, and excellent heat & cold tolerance.

2905DO Cardinale OG (48 days) This alluring wine-red European batavian disappeared from commerce for a while before Frank Morton rescued it. And a worthy rescue it was, for Cardinale is a classic both for baby leaf and full head production. Looks a little like a butterhead-romaine cross, as the open rosettes fold together like a romaine in the center at full maturity. Shiny red leaves on the outside, green in the center, crisp and juicy with some heft. Survived temperatures in the teens in Janine Welsby's unheated greenhouse under a double layer of Agribon 19 topped with old bed sheets. OT-certified. ①

A=1g, \$1.90 B=2g, \$3.60 C=4g, \$6.00 D=14g, \$12.00
E=28g, \$21.00 K=112g, \$72.00

2907SO Sierra OG (50 days) Summer lettuce aficionados can rejoice that we again have a full fresh crop of organic seed of Sierra, a red-tinged French batavian renowned for its extraordinary seedling vigor, resistance to TB and reluctance to bolt even in midsummer heat. Revered among market growers, it especially stands out in late July when others have rotted or bolted. We have harvested spring-planted marketable specimens as late as Aug. 6. Crispy and tasty leaves on a compact upright form. Developed by Vilmorin in 1992. Resists DM, tolerates LMV. OT-certified. ① **BACK!**

A=1g, \$1.80 B=2g, \$3.40
C=4g, \$5.50 D=14g, \$10.00
E=28g, \$18.00 K=112g, \$45.00



2908TO Concept OG (51 days) The Concept here is a combination of a batavian with a romaine. As the plant reaches full maturity, the whorling thick succulent juicy medium-green leaves start to close up at the top. Can be used for baby lettuce or allowed to mature into a vase-like bunch. As with most batavian types, it is relatively tolerant of hot weather and rarely bitter.

"Concept is the only lettuce I can be sure of in Florida summers," relates Marilyn Marcks of Port St. Lucie, FL. Stellar NOP-certified. ①

A=1g, \$1.50 B=2g, \$2.80 C=4g, \$4.50
D=14g, \$10.00 E=28g, \$18.00

2918PB Pablo (68 days) Pablo bears a superficial resemblance to a red iceberg, but is a batavian, not a crisphead. Its larger plants form loose heads of beautiful upright rosettes surrounded by wide wavy-edged flat leaves. Bronze coloration on the outside leaves contrasts strongly with the green interiors lending a striking metallic sheen. Very sweet and mild with some bitterness in the ribs, slow-growing and extremely heat resistant. Always one of the last five to bolt in my trials—sweet to the bitter end. Lovely enough to stand as an ornamental, but also one of the best-tasting. From Seed Savers Exchange. ②

A=1g, \$1.50 B=2g, \$2.80 C=4g, \$4.50 D=14g, \$10.00
E=28g, \$18.00 K=112g, \$55.00

2921NO Anuehue OG (72 days) Johnny's deserves credit for popularizing Anuehue. Its mellifluous Hawaiian name (pronounced AH-new-ee-new-ee) means 'rainbow' even though it is a uniform dark green. Anuehue sure doesn't look like much in June when most other lettuce is in full glory, but as the days get shorter and the heat gets stronger it really comes into its own. In late July and even early August, this 1987 University of Hawaii introduction has no peers for crispness and sweetness and never develops even the faintest hint of bitterness. Slow growth is its secret. It remains compact as it matures, surrounding its round tightly packed heart with crisp outer leaves. Unlike most lettuces, seed will germinate at 80°. Also has some winter hardiness, surviving teen temperatures under Agribon 19 and old bed sheets in Welsby's unheated greenhouse. CCOF-certified. ①

A=1g, \$1.40 B=2g, \$2.60 C=4g, \$4.50 D=14g, \$10.00
E=28g, \$18.00 K=112g, \$55.00

CRISPHEAD or ICEBERG

According to Vaughan's 1904 catalog, Iceberg gets its name from the small indentations in the leaves that are constantly filled with dewdrops giving them a crystalline appearance.

2922RI Red Iceberg (63 days) For burgundy exterior coloration, compact medium-sized heads, great reliability and pleasing sweet flavor, an attractive alternative to green iceberg. Interior shades to green. Heads resist getting soft and mushy in the heat for a relatively long time. ②

A=1g, \$1.50 B=2g, \$2.80
C=4g, \$4.80 D=14g, \$10.00
E=28g, \$18.00 K=112g, \$55.00

2925SU Summertime (70 days)

Noted garden columnist Roger Swain, writing from New Hampshire at the end of June 2015, describes Summertime, bred by the late James Baggett, as "one of the few iceberg lettuces that can take the heat. Put a chunk in your mouth and you will be delighted by its shattering crispness." Uniform compact dense medium-sized heads of excellent flavor. Harvest iceberg well into July with Summertime. Resistant to TB. ②

A=1g, \$1.30 B=2g, \$2.50 C=4g, \$3.80
D=14g, \$7.50 E=28g, \$12.00 K=112g, \$36.00

2931WW Webb's Wonderful (72 days) Introduced 1890 by Clarence Webb in England, came to us via Schultz. Webb's remarkable large-veined lightly savoyed dark-green leaves slowly form a very large crisphead with an exceptional buttery mild flavor like a butterhead. Though our trial notes indicate it stands heat well, bolts reluctantly, and doesn't get bitter, Debby Jaffe of Long Days Farm in Buskirk, NY, preferred it as a fall lettuce.

Delicious for grazing. I start harvesting leaves long before heads form. Webb's was a web special last year but absent from the catalog. Now **BACK!** in the catalog as well. ②

A=2g, \$1.00 B=4g, \$1.70 C=14g, \$2.80
D=28g, \$4.50 E=112g, \$9.20 K=448g, \$29.00

2934TR Trigger (75 days) This superb Calmar-type iceberg lettuce is right on target. It looked good in three consecutive Colrain, MA, trials, making nice firm big heads while showing real reluctance to succumb to BOR even when left overcrowded under difficult conditions of excessive rainfall. Has shown high tolerance to cold as well as moderate ability to withstand heat. Its very crinkly toothed leaves fold into tight, tight hard 7-10" medium-green heads without give. "Vigorous and crunchy, sweet and juicy," extol my trial notes. Attractive, marketable and never bitter. * ④

A=1g, \$1.50 B=2g, \$2.80 C=4g, \$4.50
D=14g, \$10.00 E=28g, \$16.00 K=112g, \$40.00



greens

MIXES

Exact components will vary according to availability but are posted each year on our website fedcoseeds.com.

Lettuce Mixes Light up your salad patch with contrasting colors and leaf forms! At least a half-dozen different lettuces, all suitable for cut-and-come-again culture.

2980LM Lettuce Mix

A=1g, \$1.30 B=2g, \$2.40 C=4g, \$3.80
D=14g, \$7.50 E=28g, \$12.50 K=112g, \$38.00

2981LO Lettuce Mix OG A high-quality mix consisting entirely of certified-organic seed. For certified growers and folks wishing to avoid ④⑤ and ⑥ suppliers.

A=1g, \$1.50 B=2g, \$2.80 C=4g, \$4.50 D=14g, \$9.50
E=28g, \$16.00 K=112g, \$55.00

2983DO DeLuxe Lettuce Mix OG Contains those fancy, pricey and rare varieties; the Mercedes Benz of lettuce mixes and all organic!

A=1g, \$1.80 B=2g, \$3.50 C=4g, \$6.00 D=14g, \$12.50
E=28g, \$22.00 K=112g, \$80.00

2984FO Freedom Lettuce Gene-Pool OG An inspiring mix with plenty of surprises, this gene pool was created by Frank Morton in his so-called "Hell's Half-Acre lettuce trial," in which he crossed his most disease-resistant cultivars with his best-tasting varieties to select and recombine for excellent traits. At least 10-12 "great looking and great tasting" variations won raves from trialer Donna Dyrek. Morton invites growers and breeders to work with this mix to create new varieties for their farms or for the general public, while stipulating that nothing derived from it may be patented or protected from others' use in any way. This strategy, originated by software developers, is now known as copyleft (as opposed to traditional copyright). Morton has adopted it to keep his varieties and their derivatives in the public domain as a protected commons. Seeds as nature's software! See gnu.org/philosophy/philosophy.html for more information on copyleft. Copyleft has the potential to return to free use such shared resources as our plant heritage that rightfully belong to all of us. As Morton proclaims, "Adaptive breeding cannot occur under a system of restrictive ownership." OT-certified. ②

A=1g, \$2.30 B=2g, \$4.20 C=4g, \$7.50 D=14g, \$20.00
E=28g, \$38.00 K=112g, \$145.00

2985RO Red Carpet Lettuce Mix OG Anyone who has tried Roberta Bailey's mixes knows that they are among the best in the business. She chooses from all the superior organically grown bronze and red varieties that we have in stock. Sure to please, sure to dazzle.

A=1g, \$1.80 B=2g, \$3.50 C=4g, \$5.80
D=14g, \$11.50 E=28g, \$20.00 K=112g, \$70.00

2986SM Summer Lettuce Mix A special selection of red, green and bronze lettuce varieties that most years will stand well into July without bolting. Our best-selling lettuce mix.

A=1g, \$1.50 B=2g, \$2.80 C=4g, \$4.50 D=14g, \$10.00
E=28g, \$17.00 K=112g, \$60.00

2988WM Winter Lettuce Mix For those who crave fresh salads most of the year, a popular selection of varieties with the potential to survive the winter with protection, then resume vigorous growth in the spring. * ②

A=1g, \$1.50 B=2g, \$2.80 C=4g, \$4.50 D=14g, \$10.00
E=28g, \$17.00 K=112g, \$60.00

2992ME Mesclun Once an exotic term from Provence meaning 'mixture,' now 'Mesclun' is familiar to us all. According to Rosalind Creasy, the original mesclun used all parts of the tongue, with a range of textures from crispy to velvety and of tastes from tangy to bitter. Our mixture consists of two packets: **2980 Lettuce Mix** and **2996 Mustard Mix**. Harvest these greens by cutting the leaves with scissors, leaving 1-2" of foliage as well as the apical bud and several small leaves surrounding it, so that they can grow back. Plant each packet in adjoining beds or rows so that the lettuces won't overwhelm the greens. You can enhance your mesclun by adding other greens such as mâche, claytonia and bronze fennel. Add edible flowers of garlic chives, nasturtiums, violas, signet marigolds, borage and mustard blossoms to lend further appeal to the mix, creating delectable color, taste and texture contrasts. "I am addicted to your mesclun mix. Addicted," confesses Beth Thiel of Walla Walla, WA. Beth, there are worse addictions than that.

A=1g, \$1.50 B=2g, \$2.80 C=4g, \$4.50 D=14g, \$10.00
E=28g, \$17.00 K=112g, \$60.00

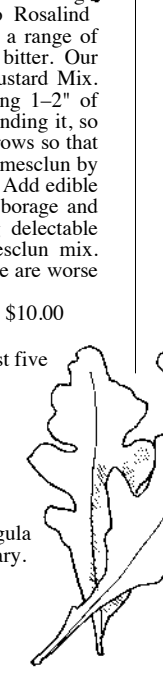
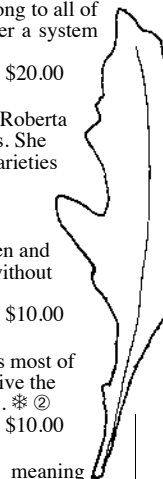
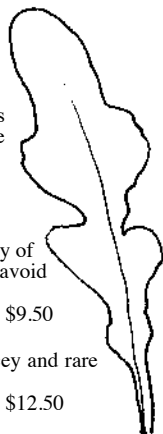
2993GO Greens Mix OG Versatile companion to **2981**. At least five varieties, certified-organic seed, chosen from among beets, chard, arugula, mustards, orachs, purslane, chervil and kales suitable for mesclun or braising. Exact components will vary according to availability. For a fully organic salad, from seed to table.

A=1g, \$1.50 B=2g, \$2.80 C=4g, \$4.50
D=14g, \$10.00 E=28g, \$17.00 K=112g, \$60.00

2996MM Mustard Mix The same mix found in **2992 Mesclun**.

Includes mizuna, chervil, endives, sorrel, Red Giant mustard, arugula and tatsoi. We may substitute one or two other varieties if necessary.

A=1g, \$1.30 B=2g, \$2.40 C=4g, \$3.80
D=14g, \$7.50 E=28g, \$13.00 K=112g, \$40.00



Including Season-extenders

All greens are open-pollinated except where noted.

Culture: When to harvest greens? Research from trials conducted in England and Kenya showed looseleaf lettuce, red chard and arugula harvested in the evening had a longer shelf life than when picked in the morning.

Days to maturity are from direct seeding. Look for the snowflake symbol * after each cultivar description for indication that a variety is hardy through at least a part of our Maine winter.

AMARANTH *Amaranthus* spp.

For grain and leaf amaranths see 4300-4301. Ornamental Amaranth see 4831-4837.

ARUGULA *Eruca sativa*

1/16 oz packet sows 60 ft; 1 oz, 960 ft. ~15,000 seeds/oz. Also known as Rocket or Rocket. Musky green and its piquant blossoms will spice up your salad.

Culture: Prefers cool temperatures; direct seed as early as possible in spring. Bolts readily in heat; much better as a fall crop or succession planted. Use row covers to discourage flea beetles. I always let my spring crop grow to seed and am rewarded with a self-sown September and October patch that is delicious and has no flea beetle damage! A prime ingredient in tangy mesclun mixes. Frequent watering will reduce its pungency. Suitable for microgreens.

3020SO Astro OG (21 days baby, 35 days mature) After my first taste I was tempted to wisecrack that Astro is to real arugula as AstroTurf is to real grass. But that would be grossly unfair. Yes, its pleasant tender texture and mild flavor might be a slight letdown for those of us who prefer our arugula more piquant. However, we found out when it debuted in our catalog that many people prefer this milder strain, making it a top seller. Selected for profuse basal growth, Astro rockets into dense clusters of thick lush leaves for baby-greens harvest. Leaf shapes are a mix of smooth-edged and lobed. Grows equally well during cool and hot seasons, Astro came to us highly recommended by our West Coast seed farmers for its dependable performance and yield. WA-certified. * ①

A=1/16oz, \$1.50 B=1/8oz, \$2.70 C=1/2oz, \$4.20
D=1oz, \$6.50 E=4oz, \$14.00 K=11b, \$54.00

3021CO Ice-Bred OG (44 days) For my money, the best arugula to be found anywhere. Brett Grohsgal crossed two excellent European heirloom strains in 1989 and has been selecting for cold hardiness and vigor since. He's bred one tough cookie here. Mid-ribs and whole leaves develop a lovely purple hue in winter freezes. Recovers in spring even if plant goes dormant under very cold conditions. Seedlings can stand drought, compete against weeds and don't require high soil fertility. They have been 1-2 days slower to bolt than other arugulas in my spring-sown plots. This is arugula with more bite, vigorous with complex full flavors. OT-certified. * ①

A=1/16oz, \$2.00 B=1/8oz, \$3.60 C=1/2oz, \$6.00 D=1oz, \$10.00
E=4oz, \$32.00

3022AR Arugula (47 days) The best-tasting and most bolt-resistant of the 11 strains in our 2006 trials (**3021 Ice-Bred** was not included in that test). Stood temperatures down to 14° double-covered under Agribon 19. ②

A=1/16oz, 90¢ B=1/8oz, \$1.50 C=1/2oz, \$2.20 D=1oz, \$3.30
E=4oz, \$5.00 K=11b, \$15.00 L=51b, \$70.00

3023AO Arugula OG (47 days) CCOF-certified. ①③

A=1/16oz, \$1.10 B=1/8oz, \$2.00 C=1/2oz, \$3.00 D=1oz, \$4.40
E=4oz, \$8.00 K=11b, \$27.00 L=51b, \$130.00

3027SY Sylvetta (21 days baby, 50 days mature) *Diplotaxis eruroides* Also known as Rucola Selvatica, a must for extraordinary cold-season salads. A wild form of arugula, very deeply lobed dark green narrow leaves grow steadily, reaching 3" in 3 weeks, the perfect length for a 7" salad plate.

Nutty, sweet, crisp and moderately spicy, Sylvetta grows foliage right to the rib base, no stem to trim. Please your restaurant accounts with this beautifully uniform arugula strain. Slower growing, smaller and more pungent than regular arugula. Out-competed 8 other commercial-production strains in our summer endurance trial.

Highly recommended for market farmers and gardeners alike. Eliot Coleman lists it as one of his winter staples in *The Winter Harvest Handbook* (9527). ~110,000 seeds/oz. * ②

A=1/16oz, \$1.60 B=1/8oz, \$3.00
C=1/2oz, \$7.50 D=1oz, \$13.00
E=4oz, \$42.00 K=11b, \$155.00



CHARD *Beta vulgaris* (cicla group)
800–2,000 seeds/oz. 1/16 oz packet sows 5–13 ft; 1 oz plants 80–200 ft.

Culture: Hardy and easy to grow. Same species as beets. Salzer's 1915 catalog opines, "Swiss chard produces more food for the table than almost any other vegetable and it also requires less care; it yields a constant crop from July to winter." Plants will grow quite large. Space according to use—can be direct-seeded 2" apart for baby-leaf harvest; thin to 12–16" apart for large leaves. Softer thick ribs of chard, beets and other greens by braising. Also used for microgreens. Minimum germination temperature 40°, optimum range 50–85°.

veins. The standard variety, introduced by Burpee in 1934. Strains of green swiss chard have been around since 1750. Bag tag limits seed to a one-time use. ©

A=1/16oz, 90¢ B=1/8oz, \$1.60 C=1/2oz, \$2.50 D=1oz, \$3.20
E=4oz, \$6.00 K=1lb, \$12.00 L=5lb, \$56.00

3033AG Argentata (55 days) Vigorous long-standing 2–3' plants tolerate a wide variety of weather conditions. Broad silvery-white midribs with a crispy sweet succulence and none of the oxalic acid-sting so common in other chards. The deep green savoyed leaves with a mild clean flavor make a great substitute for spinach in omelettes, pasta dishes and casseroles. ©

A=1/16oz, \$1.20 B=1/8oz, \$2.20 C=1/2oz, \$4.20 D=1oz, \$6.50
E=4oz, \$21.00 K=1lb, \$70.00

3034PS Perpetual Spinach or Leaf Beet (55 days) Thanks to Pam Dawling for suggesting we add this member of the chard family. Leaf beet should be cultured like any other chard variety. It looks similar to other swiss chards, but its stems are thinner and its exceptionally tender leaves are smoother, not puckered. It tastes unlike any other chard, imparting a spinach-like flavor that lingers pleasantly. Unlike spinach, Perpetual lasts through summer into fall as it withstands light and moderate frosts. Production from June to October, reports one central-Vermont grower. ©

A=1/16oz, 90¢ B=1/8oz, \$1.70 C=1/2oz, \$2.70 D=1oz, \$4.80
E=4oz, \$10.00 K=1lb, \$28.00

3036BL Bright Lights (56 days) A best seller and 1998 AAS winner from Johnny's Selected Seeds. Bright Lights bathes stems, midribs and secondary veins in a panoply of gold, yellow, orange, pink, intermediate pastels and dazzling stripes. The tenderness of its dark green to bronze leaves and the mildness of its chard flavor impresses all who try it. Young seedlings respond to cut-and-come-again culture, ideal for mesclun. Developed by John Eaton of Lower Hutt, New Zealand, who found the parent plants, red and yellow, in a small home garden in 1977 and crossed them to standard green and white varieties, selecting for color and flavor over the next fifteen years. Johnny's worked the following years to preserve the strength and range of the individual colors. ©

A=1/16oz, \$1.40 B=1/8oz, \$2.60 C=1/2oz, \$4.20 D=1oz, \$6.80
E=4oz, \$21.00 K=1lb, \$75.00

* **Season-Extending Greens** *

Greens marked with * at the end of their descriptions are hardy through at least a portion of our winters in Zones 4 and 5, and probably with protection can survive the entire winter in Zone 6 and south. We continue our trials to add to this selection.

| Assorted | | Lettuce | |
|----------|----------------------------|---------|------------------------|
| 2393 | Gilfeather Turnip greens | 2781 | Merlox Red Oak |
| 3020 | Astro Arugula | 2786 | Red-Tinged Winter |
| 3021 | Ice-Bred Arugula | 2788 | Oscarde |
| 3027 | Sylvetta Arugula | 2791 | Tango |
| 3050 | Claytonia | 2796 | Lolla Rossa |
| 3102 | Verte de Cambrai Mache | 2814 | North Pole |
| 3158 | Gigante d'Italia Parsley | 2816 | Winter Marvel |
| 3166 | Double Curled Parsley | 2849 | Winter Density |
| 3168-9 | Krausa Parsley | 2865 | Rouge d'Hiver |
| 3170 | Dark Green Italian Parsley | 2886 | Winter Wonderland |
| 3204 | Green Lance | 2934 | Trigger |
| 3218 | Senposai | 2988 | Winter Lettuce Mix |
| 3220-1 | Tatsoi | | |
| 3257 | Chinese Thick-Stem | | |
| 3391 | Deadon Savoy Cabbage | 3235-6 | Golden Frill |
| 3397 | Wirosa Savoy Cabbage | 3239 | Pink Lettuce Gene Pool |
| 3441 | Vates Collards | 3241 | Spicy Green |
| 3471 | Kolibri Kohlrabi | 3243 | Green Wave |
| | | 3245 | Red Giant |
| | Kale | | Spinach |
| 3449 | Scarlet | 2510 | Space |
| 3450 | Vates | 2512 | Olympia |
| 3451 | Beedy's Camden | 2538 | Avon |
| | Redbor, Winterbor on web | 2540-1 | Bloomsdale |
| 3454 | Darkibor | 2555 | Giant Winter |
| 3460 | Russian Frills | 2558 | Winter Bloomsdale |
| 3461-2 | Red Russian | | |
| 3464 | White Russian | | |

3038GO Golden OG (56 days) The gold standard in chard and a first-rate ornamental edible. A rare color in chard, this strain from Frank Morton always stands out in our grow-outs. Large light green semi-savoyed leaves contrast with the bright yellow stems and veins. Becomes strikingly luminescent as the plant matures. This heirloom was developed in the 1830s when it was originally known as Chilean beet. OT-certified. ©

A=1/16oz, \$1.60 B=1/8oz, \$2.80 C=1/2oz, \$5.50 D=1oz, \$9.20
E=4oz, \$28.00 K=1lb, \$105.00

Red Rhubarb (59 days) Deep crimson stalks, dark green leaves. Very hardy. Beautiful for edible landscapes. Heirloom from Europe goes back to 1857. Bag tag limits seed to a one-time use, both for conv. and organic. ©

3040RR Red Rhubarb On sale this year. ©
A=1/16oz, 90¢ B=1/8oz, \$1.60 C=1/2oz, \$2.40 D=1oz, \$3.60
E=4oz, \$5.00 K=1lb, \$16.00

3041RO Red Rhubarb OG Take advantage of our sale prices. WA-certified. ©

A=1/16oz, \$1.10 B=1/8oz, \$2.00 C=1/2oz, \$3.00
D=1oz, \$4.00 E=4oz, \$8.00 K=1lb, \$30.00 L=5lb, \$140.00

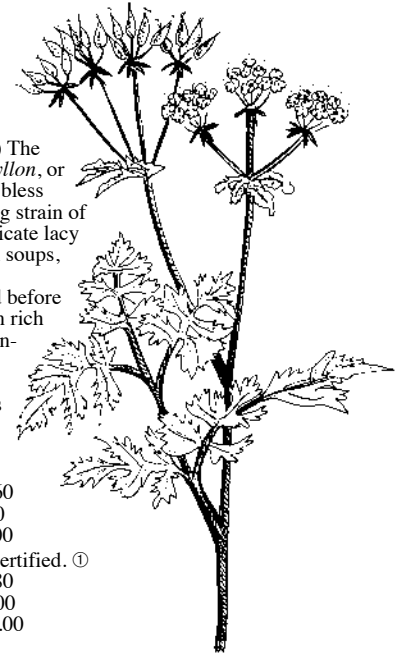
Prismatic OG (60 days) Check our website for availability and prices.

CHERVIL

Anthriscus cerefolium

12,000 seeds/oz. 1/16 oz packet ~ 750 seeds.

Chervil (60 days to full maturity) The Greeks referred to it as *khairē-phyllon*, or 'leaf of joy,' and carried sprigs to bless their friends. Superior slow-bolting strain of this annual grows vigorously. Delicate lacy leaves with distinct flavor good in soups, with fish or asparagus. Essential ingredient in mesclun. Direct seed before a rain in early spring or summer in rich well-drained soil with light but constant moisture. Begin harvesting leaves 6–8 weeks after sowing. In warmer locations performs best as a fall crop. Also good for microgreens.



3044CH Chervil ©

A=1/16oz, 90¢ B=1/8oz, \$1.60
C=1/2oz, \$2.40 D=1oz, \$3.60
E=4oz, \$6.50 K=1lb, \$19.00

3045CO Chervil OG OT, MT-certified. ©

A=1/16oz, \$1.60 B=1/8oz, \$2.80
C=1/2oz, \$7.50 D=1oz, \$14.00
E=4oz, \$50.00 K=1lb, \$180.00

CHICORY *Chicorium intybus*

~500-600 seeds/g.

Culture: Performs best in cool weather, spring or fall. Direct seed, thin to 1–2' apart.

3047RI Italiko Rosso (60 days) Savory Italian chicory often mistaken for a red dandelion. Nip off the deeply toothed red-veined leaves for a delectable treat. Ideal for braising, good in spicy mesclun, it imparts its mild dandelion flavor. Moderately tangy in cool weather, it can be somewhat bitter in summer's heat. ©

A=0.5g, \$1.40 B=1g, \$2.50 C=2g, \$4.00 D=8g, \$6.60
E=16g, \$10.00 K=32g, \$14.00

3048PZ Pan di Zucchero (80 days) The name means 'sugar loaf' in Italian. If you associate chicory with bitterness, heirloom Pan di Zucchero will surprise you. Stood out from the four dozen others in chicory expert Lucie Arbuthnot's fields and was delicious in her kitchen. Its 1' tall large tight light green leaves are shaped like a romaine lettuce crossed with a napa cabbage. High yielding, best as a fall crop. Will store well for three months and survive for four if you wrap it tightly in slightly damp newspaper and keep it just above freezing. Lucie compares it to witloof chicory, but without the extra work. ©

A=0.5g, \$1.30 B=1g, \$2.40 C=2g, \$4.00 D=8g, \$6.00
E=16g, \$10.00 K=32g, \$16.00

3049PT Puntarelle (80 days) I love the enthusiasm of gardeners who, upon hearing I work for Fedco, regale me with tales of their favorite vegetables. This year I was thus introduced to one I had yet to encounter: Puntarelle, a chicory grown for its stems, which join together at the base to form a swollen bulb-like vegetable. The sweet hollow stalks, with texture akin to celery, are harvested when young and tender and then sliced into spears and soaked in ice water, causing them to curl and become juicier. Make the salad called Puntarelle alla Romana by dressing them raw with anchovies, garlic, red wine and olive oil, which brings out their flavors: hints of arugula spiciness combined with fennel overtones. The frilly leaves can be stripped off and cooked separately, or the stems can be cooked as well and served with such traditional Italian fare as beans and pasta. Transplant or direct seed. Best grown in fall and harvested before frost. © **NEW!**

A=1g, \$1.60 B=2g, \$2.80 C=4g, \$4.50 D=16g, \$12.00
E=32g, \$20.00

CLAYTONIA *Montia perfoliata*

~160 seeds/g. 1/2 g packet sows 3 ft. Direct seed in spring, 24 per ft. Thin to 3" apart. Responds to cut-and-come-again culture and tolerates moderate frosts. For best quality, make at least one succession planting.

3050CL Claytonia (40 days) Also known as Winter Purslane and Miner's Lettuce, it was the '49ers green of choice, rich in calcium and vitamin C. Claytonia's small heart-shaped leaves have a mild but succulent taste that we find attractive. We add it regularly to our mesclun. Barbara Damrosch says it "re-grows like crazy so you can get cut after cut off the same plant." * ③

A=0.5g, \$1.60 B=1g, \$2.80 C=2g, \$5.20 D=8g, \$12.00
E=16g, \$20.00 K=32g, \$32.00

CRESS *Lepidium sativum*

1/16 oz packet sows 50-70 ft; 1 oz, 800-1,000 ft. Cress is great for quick spicy microgreens.

3053CC Curly Cress (20 days) Bright green tightly ruffled leaves can be cut as soon as they are a couple of inches tall. Peppery flavor enlivens salads. Offered by C.P. Hirschy for a nickel a packet in 1890. ②

A=1/16oz, 90¢ B=1/8oz, \$1.60 C=1/2oz, \$2.40 D=1oz, \$3.60
E=4oz, \$5.50 K=1lb, \$14.00

3056WO Wrinkled Crinkled Crumpled Cress OG (30 days)

Salad green that will impress.
Mix some lettuce, add some dress.
Stir it up, sit down and fress.
Banish cares and summer stress.

With a designer's eye, a discerning palate, and a breeder's deft touch, Frank Morton crossed Persian and curled cresses to create a gene pool, from which he selected Wrinkled Crinkled. Broad leaves are extremely ruffled and wrinkled along the margins and savoyed in the middle. A fluffy spicy addition to your salad mix, imparting a tang, plus an irresistible sweetness. Can be bunched for market. OT-certified. ②

A=1/16oz, \$1.50 B=1/8oz, \$2.80 C=1/2oz, \$5.00 D=1oz, \$8.50
E=4oz, \$20.00 K=1lb, \$75.00

3058WC Watercress (60 days) *Nasturtium officinale* Perennial, Zone 4, native to Europe. Start seeds indoors and transplant to cold frame, keeping watered, or direct sow in soggy stream bank. Also good in pots. Likes sunshine. Keep pickled; it gets bitter once flowers form. Its peppery taste enhances many a salad, soup and tea. Super-nutritious, it has more vitamin C than an orange, more calcium than milk, and more iron than spinach. According to UConn researchers, contains a compound that inhibits numerous types of cancers. Since ancient China and Egypt, has had widespread culinary and medicinal uses. It is also a candidate for possible use in phytoremediation or wastewater treatment operations. It is potentially invasive, and we cannot ship to CT or IL where it is banned. In other warm moist locations, keep a close eye on plantings to prevent its unwanted spread. Its many uses perfectly illustrate the conundrum posed by potentially invasive plants: how do we find ways to control them and harness their many benefits instead of banning them? ②

A=1/16oz, \$1.70 B=1/8oz, \$3.00 C=1/2oz, \$9.80
D=1oz, \$16.00 E=4oz, \$50.00

ENDIVE *Cichorium endivia*

1/16 oz packet sows 40 ft; 1 oz, 650 ft. 750 seeds/g.

3063FO Très Fine Maraichère Olesh OG (42 days) Anne Elder reports that TFM has changed her CSA members' minds about whether they like endive. "Wow, an endive that is sweet. Almost unheard of." Large frizzy endive with very fine ribs suitable for late spring and early summer harvests. Holds well in the field. Known to chefs as frisée. 19th-century French heirloom. Bag tag limits seed to a one-time use. AGRIOR-certified. ③

A=1/16oz, \$2.20 B=1/8oz, \$4.00 C=1/2oz, \$14.00 D=1oz, \$26.00

3075VO Speckled Friz Chickendive OG (70-90 days) *C. intybus* x *C. endivia* Don't be chicken! Take a dive with these new and unusual chic greens from master breeder Frank Morton. Morton crossed Wild Garden Chicories with frizée, curly endive and escarole to develop this colorful flock of individuals, more tender than chicory, more cold hardy and ornamental than endive. A variable gene-pool with some plants open, others semi-headed, others with full heads. Enjoy a broad range of textures and flavors spiked with a hot peppery tang. Survived single-digit outdoor winter temperatures in Oregon. Sow in mid-late summer for autumn and winter production. Space 1' apart in rows 1-2' apart. These have been in and out of the catalog according to availability but were last offered in 2013. OT-certified. ① **BACK!**

A=1/16oz, \$2.20 B=1/8oz, \$4.00 C=1/2oz, \$11.20
D=1oz, \$20.00 E=4oz, \$76.00

3092BL Broad-Leaved Batavian (85 days) Also known as Escarole.

Smooth broad dark green outer leaves with creamy yellow closely bunched center leaves that Fearing Burr described as thick and fleshy in his 1863 *Field and Garden Vegetables*. Lauded by William Woys Weaver as a good salad green, not bitter. Especially good as a fall crop; tolerates frost under row cover. Best cooked—the Italian tradition is to braise with white beans. Also makes a savory escarole and leek pie. ②

A=1/16oz, 90¢ B=1/8oz, \$1.60
C=1/2oz, \$2.50 D=1oz, \$3.80
E=4oz, \$7.00 K=1lb, \$20.00

GOOSEFOOT*Chenopodium bonus-henricus*

160 seeds/g.

3096KH Good King Henry Perennial, Zone 3-9, also known as Lincolnshire Spinach. Used as a potherb, one of the first greens of spring and one of the last of fall. Ancient plant used in festive meals, in meat dishes and as a side dish, very popular in Europe before it was supplanted by spinach. Not named for any specific king, instead Henry comes from the germanic *haganrich* (literally 'king of the hedge,' supposedly a name for a gremlin with goose's feet that helps around the house and puts things where they belong. I could use one of those!) Cultured, harvested and prepared much like asparagus and considered a great delicacy. Gather shoots while they are still tender at about 5" high, peel and boil, or harvest the dark green arrow-shaped leaves like spinach. Prefers rich soil in semi-shady areas, though will grow in full sun. Stratify seeds: fluctuation of high and low temperatures aids germination. Direct sow in spring or fall or transplant very young seedlings in spring. Once established the plants don't like transplanting. Like asparagus, requires a year of growth before plants can be harvested. If left uncut, stalks grow to 2 1/2'. ②③

A=0.5g, \$1.60 B=1g, \$2.80 C=2g, \$4.40 D=8g, \$12.50
E=16g, \$22.00

SEA KALE *Crambe maritima*

3099SK Sea Kale Perennial, probably Zone 5. Native to the seashores of northern Europe and popular in Victorian England. Once grown on a large scale as a winter substitute for asparagus, cultivated for its blanched tender delicate ivory-colored leaf stalks that can be boiled or steamed to provide a good source of vitamin C. Sea Kale grows up to 3' forming a beautiful rosette of wavy-edged thick silvery-grey leaves and dense racemes of small white sweet-scented flowers in midsummer. Plants die back in the winter, the ideal time to take cuttings of the fleshy side-roots to store in moist sand until setting out in soil in March. This is a faster way to generate plants than starting each year from seed. Scarify seeds or nick the big seed casings for better germination. Start indoors like broccoli, set out, protect to overwinter and begin harvesting the 2nd and subsequent years. Blanch the tender slightly bitter early spring shoots in absolute darkness under large pots, and harvest when the stems reach 3-10". Exposed to light, in its natural state Sea Kale is bitter and inedible. After blanching, allow the plants to rebuild their strength for the following season. ③

A=1g, \$2.30 B=2g, \$4.20
C=4g, \$7.50 D=8g, \$14.00
E=16g, \$25.00

MÂCHE *Valerianella locusta*

17,000 seeds/oz. From Susan Lipari of Alpine, NY: "I grew up in Germany, and mâche was a staple winter salad green...Even here, in upstate NY, Zone 5, it is quite untouched by the cold of winter. I harvest mâche all through the winter, sometimes scraping the snow off the rosettes and blowing on my freezing hands...In the spring, mâche begins to bolt...In late September...the seeds germinate and begin to grow. By the middle or end of October I can start to harvest the new crop...No Thanksgiving...dinner would be complete in my family without

'Rapunzel' salad." Also known as Corn Salad, Lamb's Lettuce, Field Salad and Feticcus, mâche has a unique nutty flavor.

Culture: Mâche seed requires 10-14 days to germinate. Never start in soil temperatures above 68° as excessive warmth triggers seed dormancy.

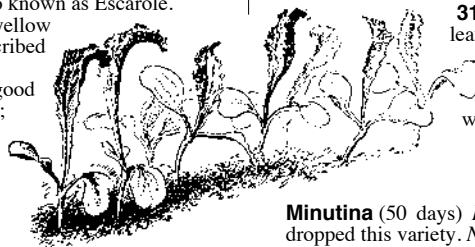
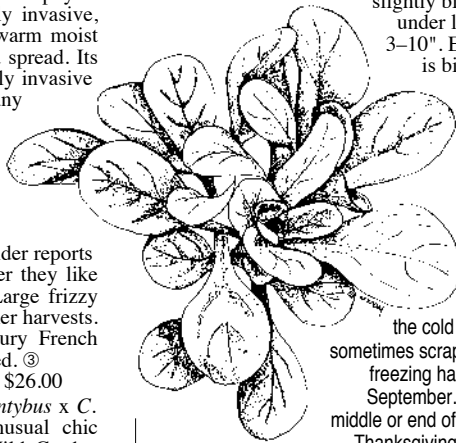
3102VC Verte de Cambrai (45 days) A small-seeded small-leaved strain that performs especially well in cool or cold conditions and is the best kind for overwintering. Susan Coombs of Newton, MA, reported it happily growing in her garden in February. May be the same variety Thomas Jefferson grew in 1810 under the name Candia. * ②

A=1/16oz, \$1.10 B=1/8oz, \$2.00 C=1/2oz, \$3.40 D=1oz, \$5.50
E=4oz, \$14.00 K=1lb, \$40.00

3114LL Large-Leaf Round (60 days) Vigorous large-leaf type is suitable for sowing in spring for an early summer harvest. Bryan O'Hara says "always a favorite in winter salads." Weaver traces this strain back to the 1840s, but for centuries prior to that corn salad was gathered in the wild. ②

A=1/16oz, \$1.10 B=1/8oz, \$2.00
C=1/2oz, \$3.20 D=1oz, \$4.50
E=4oz, \$9.00 K=1lb, \$28.00

Minutina (50 days) *Plantago coronopus* Sales were minute, so we have dropped this variety. *No longer available.*



ORACH *Atriplex hortensis*

4,000 seeds/oz. Key salad ingredient once called the Cabbage of Love, also known as Mountain Spinach, popular in the 19th century then forgotten for many years.

Culture: Thrives in cool weather and should be direct-sown as soon as the ground can be worked. Can be pinched back to encourage production and retard bolting. Produces an abundance of seed that can be saved, and will occasionally self-sow.

3148RO Purple Orach OG (38 days) Beautiful red-purple spinach-shaped leaves have a mild flavor. Good variety for microgreens, for salads, for cooking. Seed has bracts. CCOF, MT-certified. ①②

A=1/16oz, \$1.60 B=1/8oz, \$2.80
C=1/2oz, \$7.50 D=1oz, \$13.00
E=4oz, \$36.00

3150AO Aurora Orach Mix OG (38 days) In his Wild Garden

Seed catalog, originator Frank Morton calls it "mountain spinach for merry pranksters." This mix of golden, dark purple, purple and carmine day-glo will give orach a whole new aura in your garden and salad mixes. As Morton says, "Exotic forms and high-contrast high-intensity color sells seed, and good taste and easy culture sells that seed year after year." Seed has bracts. OT-certified. ①

A=1/16oz, \$1.70 B=1/8oz, \$3.20 C=1/2oz, \$7.80 D=1oz, \$15.00
E=4oz, \$55.00

PARSLEY *Petroselinum crispum*

1/16 oz packet sows 25 ft; 1 oz, 400 ft. Avg. 14,000 seed/oz. A shining star of Jason Kafka's wholesale program. He grows Double Curled, Dark Green Italian and Krausa, moves a few hundred bunches per week and says that if you have the market, these may bring more \$ per row foot than any other crop. When they bolt, he gets a bonus by using the umbels as filler for flower bouquets.

Culture: Very hardy. Parsley seed is short-lived; test old seed before sowing. Very slow to germinate (up to 30 days). Soaking seed 8-12 hours will hasten germination. Do not allow soil surface to dry out.

Minimum germination temperature 40°, optimal range 50-80°, optimal temperature 70°. Emergence takes 29 days at 50°, 17 days at 59°, 13 days at 77°.

3158GI Gigante d'Italia (70 days) We were wowed by its early seedling vigor and rich sweet flavor. Flat-leaved heirloom hails from northern Italy and grows to 1'. * ④

A=1/16oz, 90¢ B=1/8oz, \$1.60 C=1/2oz, \$2.50
D=1oz, \$4.00 E=4oz, \$5.50 K=1lb, \$14.00

3166FG Double Curled (75 days) Double-curved with long upright stiff stems. Holds color well all season, tolerates heat and repeated cuttings. Gene and Joanna plant huge amounts for parsley pesto. * ②③

A=1/16oz, 90¢ B=1/8oz, \$1.60 C=1/2oz, \$2.50
D=1oz, \$4.00 E=4oz, \$7.00 K=1lb, \$22.00

Krausa (75 days) "Krausa parsley gave us another stellar performance last year," reported Bryan O'Hara in CT. "Great flavor, too," added Evelyn Durand of Marysville, CA. Stems so sweet they taste almost like a miniature celery: thick, solid, crunchy, yummy. Dense triple-curved medium-green parsley holds its color without developing white or brown spots. Taller, thicker stems than Double Curled. "Never before had a parsley with such delicious stems," raves trialer Donna Dyrek. Can stand the heat yet still beautiful and juicy in October. Contract limits seed to a one-time use. *

3168KR Krausa ④
A=1/16oz, \$1.40 B=1/8oz, \$2.50

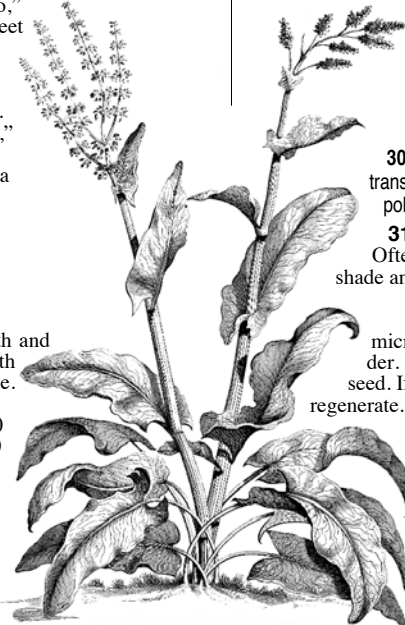
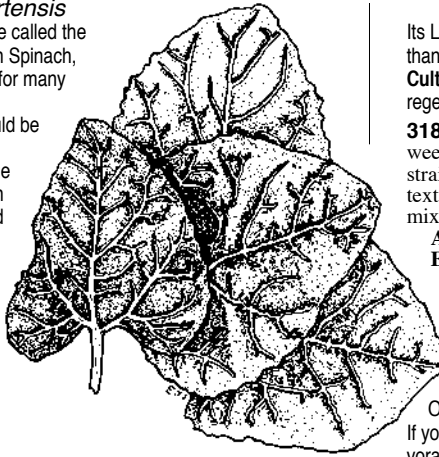
3169KO Krausa OG OT-certified. ④
A=1/16oz, \$2.00 B=1/8oz, \$3.50 C=1/2oz, \$6.50
D=1oz, \$10.00

3170DO Dark Green Italian OG (78 days) Smooth and shiny large wide dark green flat leaves. Upright with vigorous growth. Bag tag limits seed to a one-time use. WSDA-certified. * ⑤

A=1/16oz, \$1.50 B=1/8oz, \$2.80 C=1/2oz, \$4.40
D=1oz, \$7.50 E=4oz, \$20.00 K=1lb, \$70.00

"I appreciate your low prices for small quantities of seed. It allows me to experiment with more new varieties."

-Steven Stycos, West Bay Farm, Cranston, RI



PURSLANE *Portulaca oleracea* var. *sativa*

Its Latin name means 'milk-bearing vegetable.' Purslane leaves have more vitamin C than spinach leaves and are rich in omega-3 fatty acids and antioxidants.

Culture: Direct seed in spring, after danger of frost. Thin to 5" apart. Can be cut; will regenerate. We recommend a succession planting to maximize tenderness.

3182GO Golden OG (50 days) Its wild relative, the common garden weed, was a favorite edible of both Thoreau and Gandhi. This domesticated strain is more erect than the wilding, and not crawly. Golden has a succulent texture with a mildly acerbic flavor that makes it an ideal addition to salad mixes. Golden-green leaves patterned like a cross. OT-certified. ①

A=0.5g, \$1.60 B=1g, \$2.80 C=2g, \$5.00 D=8g, \$9.50
E=16g, \$16.00 K=32g, \$30.00

RADICCHIO *Cichorium intybus*

700 seeds/g.

Culture: These radicchios are easy to raise from transplants although they have not yet been refined to absolute uniformity.

Occasional plants still bolt unpredictably. If you try direct-seeding, watch out for voracious flea beetles. Culture like lettuce; do not allow to dry out. They are mature when heads form in the center. Do not eat the bitter outer leaves. The edible centers are an acquired taste, retaining some bitterness, wonderful in salad or braised. The folks at Adaptive Seeds suggest that steeping the leaves in ice water dissolves some of the bitterness. Fall crops make the largest heads. Very tolerant of fall frosts down to the 20s.

Even if you don't like to eat radicchio, consider growing its red heads as ornamentals. Left in the ground over winter, it bolts in spring and blooms with cornflower-blue chicory flowers every morning throughout the summer. Seed not pelleted.

3187FR Fiero (66 days) F-1 hybrid. A beautiful elongated upright radicchio. Deeply ribbed leaves with a branching pattern; the whitish vein blushes green along the margins and branches, creating a spectacular color contrast with the purplish background. Early and delicious, a reliable header. Contract limits seed to a one-time use. ④

A=0.05g, \$1.90 B=0.1g, \$3.60 C=0.2g, \$7.00 D=0.4g, \$13.00
E=1.6g, \$34.00 K=3.2g, \$65.00

3188ND Indigo (69 days) F-1 hybrid. We've never seen a radicchio produce such consistently large tight heads of extraordinary rich interior color. Nikos rated it one of the sweetest red radicchios she's ever tasted. Contract limits seed to a one-time use. Tipburn resistant. ④

A=0.05g, \$1.80 B=0.1g, \$3.50 C=0.2g, \$6.60 D=0.4g, \$10.00
E=1.6g, \$30.00 K=3.2g, \$58.00

3189RT Radicchio di Treviso (80 days) Shaped almost like a small romaine lettuce, turns from green to variegated dark burgundy with lovely white veining as the nights grow cold. As its narrow leaves bunch like a romaine, you can bind them with a ribbon to make a firmer "head." Best for fall crops. ②

A=0.5g, \$1.50 B=1g, \$2.60 C=2g, \$4.50 D=8g, \$7.50
E=16g, \$12.00 K=32g, \$20.00

3190PR Palla di Fuoco Rossa (85 days) Round-headed Chioggia-type from Italy. Palla di Fuoco impressed us with its deep burgundy heads with good uniformity. Its name means 'ball of red fire.' ②

A=0.5g, \$1.50 B=1g, \$2.60 C=2g, \$4.50
D=8g, \$7.50 E=16g, \$12.00 K=32g, \$20.00

SORREL *Rumex acetosa*

30,000 seeds/oz. Sorrel derives from the French word *surele*, roughly translated 'to sour.' Sorrel juice has been employed to bleach linens and polish silver.

3192BL Broad-Leaved Sorrel (60 days) Perennial, Zone 3. Often known as Sour Grass. Likes cool weather, acid soil, partial shade and plenty of water to retard bolting. In spring it rapidly shoots up its thick sword-shaped lemony-flavored leaves. If left untouched will grow up to 18" and make seed stalks. Use for microgreens or snip the leaves while they are still young and tender. Keep cutting and never let them grow big and coarse or go to seed. If they get away, mow the plant close to the ground and it will regenerate. Or treat as a biennial by planting a new patch every year and rotating the old out of production. Young leaves add tang to soups and salads and provide a welcome spring tonic. Tony Ricci of Green Heron Farm in PA recommends grilling fish wrapped in sorrel leaves surrounded by foil to impart an herbal-lemon flavor to the fish. ②

A=1/16oz, \$1.30 B=1/8oz, \$2.40 C=1/2oz, \$3.60
D=1oz, \$6.00 E=4oz, \$15.00 K=1lb, \$46.00

ASIAN GREENS *Brassica* spp.

All Asian greens are open-pollinated except where noted.

Diseases: ALTS Alternaria Leaf Spot
BSR Bacterial Soft Rot
DM Downy Mildew

Note: Due to Black Leg quarantine issued by Oregon, we cannot ship Asian brassica green packets larger than 1/2 oz (14g) into the Willamette Valley.

ASSORTED

3203GS Garland Serrated Chrysanthemum

(40 days) *C. coronarium* Grown for its aromatic fragrance with an unusual taste appreciated by devotees. This strain was superior to other Shungiku varieties in our trial. Its 5" flowers (buttercup yellow, edged in white with serrated tips) were larger and better for the edible flower market and its small grey-green serrated leaves had distinctly more chrysanthemum taste. It also makes a great yellow dye plant. The Japanese use it in hearty one-pot winter stews known as *oden*. Also good in salads, soups and stir-fries. Plant thickly in early spring (or summer for a fall crop) and harvest green leaves when stems are 4-8" tall, before buds appear. 15,000 seeds/oz. ⑤

A=1/16oz, \$1.30 B=1/8oz, \$2.40 C=1/2oz, \$3.60
D=1oz, \$6.00 E=4oz, \$16.00 K=1lb, \$60.00

3204GL Green Lance (45-60 days) *B. oleracea* F-1 hybrid. Its name sounds like a superhero but Green Lance has a number of aliases that more properly tie it to the Asian vegetable kingdom: Chinese Broccoli, Chinese Kale, Kailaan or Gai Lan. Grown for its succulent stalks and leaves, it sends up tender 8" shoots topped with elegant little loose florettes. Once the main stalk is cut, it coppices into many secondary shoots. Has versatility and flavor similar to broccoli, excellent steamed or in stir-fries. Heat and cold tolerant, thrives in a wide range of climates and can be planted in late spring, late summer or early fall. 160 seeds/g. * ⑤

A=2g, \$1.80 B=4g, \$3.40
C=14g, \$7.00 D=28g, \$10.00
E=112g, \$30.00 K=448g, \$100.00

3205HT Hon Tsai Tai (37 days) *B. rapa*

Chinese specialty vegetable also known as Purple-flowered *Choy Sum*, meaning 'vegetable heart' or 'flowering stem' in Cantonese. The flower stalks, leaf stalks and buds are deep purple, with color intensifying in cold weather. Grows vigorously in fertile soil, producing up to forty pencil-thick flowering shoots, though much skimpier on poor ground. Shoots and leaves have a pleasant mild mustardy flavor good for stir-fries, braising and soups. Also good for microgreens. Grows best in cool weather, ideal when sown in late summer for a fall crop or in fall for an early winter crop in warmer climates. Hardy to 23°. May bolt prematurely in midsummer heat. 4,500 seeds/oz. ⑤

A=1/16oz, \$1.30 B=1/8oz, \$2.50
C=1/2oz, \$4.00 D=1oz, \$6.00
E=4oz, \$15.00 K=1lb, \$49.00

3209MS Maruba Santoh (35 days) *B. r.* (pekinensis group)

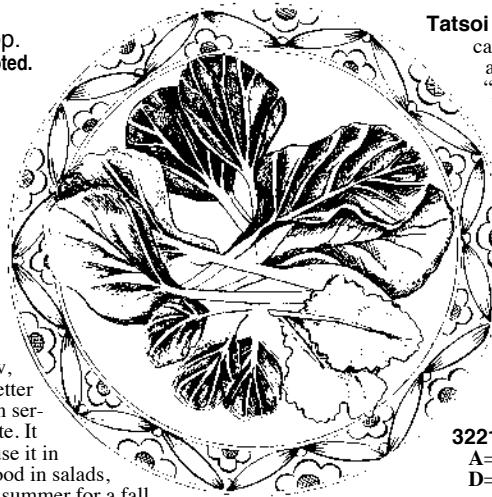
With Maruba you get four vegetables in one. The loose round vibrant chartreuse leaves provide a mild piquant mustardy flavor while the flat white stems impart a juicy crisp pac choy taste. High-end chefs like to use the blossoms. Market grower Scott Howell finds the flavor more subtle and complex than that of other greens and cuts Maruba small for his mesclun. Fairly bolt tolerant, so plant after the early spring flea beetle invasion subsides. 8,500 seeds/oz. ⑤

A=1/16oz, \$1.20 B=1/8oz, \$2.20 C=1/2oz, \$3.60 D=1oz, \$5.50
E=4oz, \$14.00 K=1lb, \$44.00

3218SP Senposai (40 days) F-1 hybrid. Developed in Japan,

a cross between Japanese Mustard Spinach (*Komatsuna B. rapa*) and regular cabbage. "Customers buy it once because it looks absolutely stunning, then they buy it again because it is extremely delicious. Absurdly productive and easy to grow," raves John Eisenstein of Port Royal, PA. Round medium-green leaves are wonderful in *okonomiyaki* or for braising. A spring sowing will stand the entire summer (even through drought) and well into fall before bolting. Can be overwintered in warmer climes or used for spring greenhouse salad production because it grows so rapidly. Open plant habit requires 12-18" spacing. 20,600 seeds/oz. * ⑤

A=1/16oz, \$1.40 B=1/8oz, \$2.60 C=1/2oz, \$4.50
D=1oz, \$8.40 E=4oz, \$22.00 K=1lb, \$78.00



Tatsoi (45 days) *B. r.* (*narinosa* group) What grows quickly, can be seeded as late as August, withstands frost and is, according to *Orlando Sentinel* columnist Sherry Boas, "just as versatile as spinach"? Yes, Tatsoi, also known as Tah Tsai. Anne Elder has picked it all fall into December even after a snow melt. Remains sweet and unburnt by cold during mild winters. "A dream come true for snow-dwelling beings craving greens." Spoon-shaped thick dark green leaves make beautiful compact rosettes with mild brassica flavor. Make great microgreens. Also good in place of lettuce in sandwiches, stir-fried, in quiche, lasagna or soup. Will come back when cut. An essential ingredient in our salads and mesclun. ~13,600 seeds/oz. *

3220TS Tatsoi ⑤

A=1/16oz, \$1.30 B=1/8oz, \$2.40 C=1/2oz, \$3.90
D=1oz, \$5.80 E=4oz, \$14.00 K=1lb, \$46.00
L=5lb, \$210.00

3221TO Tatsoi OG OT, MT-certified. ①

A=1/16oz, \$1.50 B=1/8oz, \$2.80 C=1/2oz, \$5.00
D=1oz, \$8.50 E=4oz, \$25.00 K=1lb, \$90.00

3222BO Tokyo Bekana OG (20 days baby, 45 days full size) *B. r.*

(*chinensis* group) These baby Chinese cabbages may be bunched for market or their ruffled curled leaves cut to add loft and weight to salad mixes. With pale green color and lettuce leaves they look almost like lettuce. Bekana will regrow for multiple cuttings and branch out, giving lots of edible leaves with very little coarse stalk. Lacy and mild, sweet a bit like lettuce but never bitter and makes a good slaw. Adam Tomash seeded his on July 6 for a late Aug.-Sept. harvest. It could be sowed later and, with protection, produce into late fall. But Bryan O'Hara says not as winter hardy as mizuna or tatsoi. Thin to 4-6" for full "heads." Ecocert-certified. ①

A=1/16oz, \$1.50 B=1/8oz, \$2.80 C=1/2oz, \$5.50
D=1oz, \$9.00 E=4oz, \$25.00 K=1lb, \$90.00

3223YN Yokatta-Na (21 days baby; 45 days mature) *B. r.* (*narinosa* group) F-1 hybrid.

"What a surprise! The heads grow well larger than a foot tall and we ate the 2nd growth heads whole like young bok choy," reported the Wolperts in Belington, WV. Quick-growing and versatile, tolerating both heat and cold, Yokatta can extend your season at either end, while simultaneously broadening your culinary range. Use it either raw in salad mixes or cooked in stir-fries. The deep green tender leaves, though flavorful, lack the mustard "bite" found in so many Asian greens and can be harvested as a cut-and-come-again crop or at maturity. ④

A=1/16oz, \$1.50 B=1/8oz, \$2.80 C=1/2oz, \$5.00
D=1oz, \$8.50 E=4oz, \$26.00

CHINESE CABBAGE *B. rapa* (*pekinensis* group)

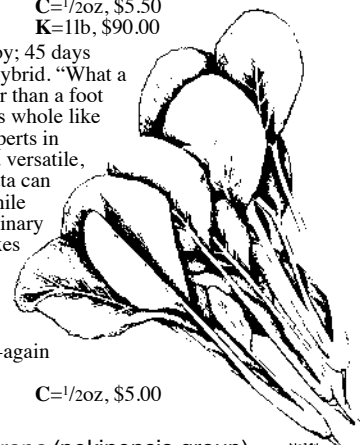
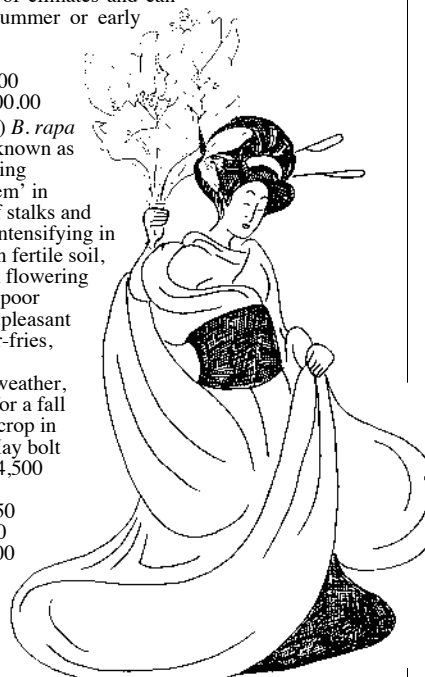
~9,500 seeds/oz. 1/16 oz packet sows 25 ft. See also 3222 Tokyo Bekana for a lettuce-type baby Chinese cabbage.

3224FJ Fun Jen (45 days) Open-pollinated. A good lettuce-type Chinese cabbage featuring fast-growing undulating leaves with a slightly wrinkly surface. Semi-loose conical very light yellow-green ruffled 6x10" heads of crunchy texture and very mild delicate flavor somewhat like lettuce. The thick white ribs are tasty with a pleasing light tangy sweetness. Excellent frost resistance but will bolt in heat after standing 2-4 weeks. Stores very well. Seed from Known-You in Taiwan. ③

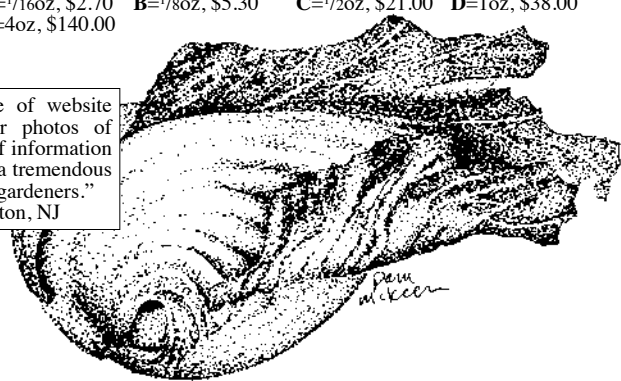
A=1/16oz, \$1.20 B=1/8oz, \$2.20 C=1/2oz, \$4.50 D=1oz, \$6.00
E=4oz, \$12.00 K=1lb, \$39.00

3225BL Blues (52 days) F-1 hybrid. Good bolt resistance, disease resistance and taste in this napa type. Flavor is relatively pungent. Suitable for planting early spring through July. Moderate tolerance to virus, DM, ALTS, BSR. ⑤

A=1/16oz, \$2.70 B=1/8oz, \$5.30 C=1/2oz, \$21.00 D=1oz, \$38.00
E=4oz, \$140.00



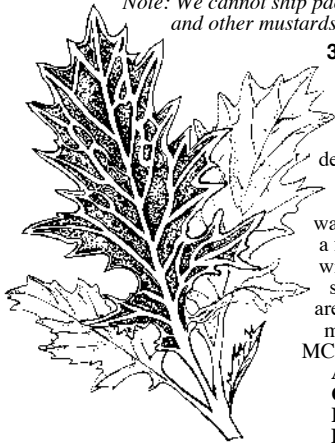
"Appreciate ease of use of website and beautiful full color photos of plants. Also abundance of information and charts in catalog are a tremendous help to us amateur home gardeners."
-Lynda Furey, Livingston, NJ



MUSTARD

~15,600 seeds per oz. 1/16 oz packet sows 40 ft. Versatile for tasty microgreens. Incorporating the residues of mustard crops into your soil can reduce fungal diseases in your succession crop. Mustards are potent soil fumigants. See 8064 Yellow Mustard in the Farm Seed section for mustard as a cover crop.

Note: We cannot ship packets larger than 1/2 oz (14g) of Mizuna and other mustards into Oregon's Willamette Valley.



3226MO Early Mizuna OG (40 days) *B. r.* (japonica group) Recommended for northland salad enthusiasts, this vigorous heirloom Japanese mustard produces slender white stalks with deeply cut and fringed dark green leaves, not at all pungent. One planting could suffice for full-season production if watered in dry spells and kept cut, though a few will bolt in September. Many folks will prefer to make three or more succession plantings because the young leaves are the most tender. Biennial. Essential in mild mesclun and great for microgreens. MCCO-certified. ⑤
 A=1/16oz, \$1.30 B=1/8oz, \$2.50
 C=1/2oz, \$4.50 D=1oz, \$7.00
 E=4oz, \$18.00 K=1lb, \$56.00
 L=5lb, \$240.00

3227RO Ruby Streaks OG (40 days) *B. juncea* As if an artist had carefully brushed deep purple filigree on the delicately serrated leaves of mizuna. Anne Elder describes it as "a sweet flash of color for any raw dish." Clayton Carter calls it "everything that the so-called Purple Mizuna should be." Bold coloring on deeply toothed leaves. Germinates quickly, grows speedily but, unlike Mizuna, bolts rapidly. Great for multiple spring and fall cuttings, but cannot stand heat. Provides a striking contrast when bunched with 3226 Mizuna, 3222 Tokyo Bekana or 3209 Maruba Santoh. Also unlike Mizuna, has a sweet and spicy flavor, though not excessively hot. Even after it bolts, its flower buds and yellow flowers can add a tang to salads. Carter calls it "the staple of my salad and braising mixes." "A big hit with my chef clients," reports Georgie Smith of Coupeville, WA. Color deepens toward darker maroon in the cool of autumn. WA-certified. ①

A=1/16oz, \$1.50 B=1/8oz, \$2.80 C=1/2oz, \$4.50 D=1oz, \$7.00
 E=4oz, \$18.00 K=1lb, \$70.00

3229MO Mizspoon Salad Selects Gene Pool OG (40 days) *B. r.* Hits the palate just right: doesn't bite the tongue off like some of the serious mustards, nor bore with blandness. Sweet, juicy with a bit of zing, medium-dark green variable leaves, some rounded, some pointed, slightly ribbed white veins. Tender and delicious in salads or braised. From Frank Morton. OT-certified. ② ①

A=1/16oz, \$1.60 B=1/8oz, \$3.00 C=1/2oz, \$6.50 D=1oz, \$12.00
 E=4oz, \$40.00 K=1lb, \$125.00

Golden Frill (20 days baby, 40 days mature) *B. j.* Light golden-green leaves curl and furl, adding flounce to your salad mix. Intricate serration of foliage seems almost laser cut. Its mustard flavor gives an acute peppery zing. Grows quickly for use as a baby green throughout the year and, at sauté size, resists bolting in the summer heat. Lacy texture tolerant to flea beetle damage. Rising Up Farm, in Belfast, ME, always includes Golden Frill in their salad mix. *

3235GF Golden Frill ⑤
 A=1/16oz, \$1.40 B=1/8oz, \$2.50 C=1/2oz, \$4.50 D=1oz, \$7.50
 E=4oz, \$20.00 K=1lb, \$62.00

3236GO Golden Frill OG MT-certified. ①
 A=1/16oz, \$1.60 B=1/8oz, \$2.80 C=1/2oz, \$5.20 D=1oz, \$9.00
 E=4oz, \$23.00 K=1lb, \$78.00

3239LO Pink Lettuce Mustard Gene Pool OG (40 days) *B. r.* Frank Morton selected well-mixed breeding pools for disease resistance and particularly for pink and purple pigmentation on the midribs. Lots of variation remains in leaf color (from light green to green with purple edges), in indentations of the leaf edges and some in midrib coloration. Morton continues to select from the pool for specific types and you can, too. He is particularly interested in creating more color for baby cut salad mixes. Commercial operations will find a wealth of good cutting, home gardeners terrific salad fixings, mild but with just enough tang to keep you interested. Survived Roberta's overwinter trial. OT-certified. * ② ①

A=1/16oz, \$1.70 B=1/8oz, \$3.00 C=1/2oz, \$7.00
 D=1oz, \$12.50 E=4oz, \$42.00 K=1lb, \$130.00

Supplier Codes Know where your seed comes from! See page 4 for details.

- ① Small seed farmers including Fedco staff.
- ② Family-owned companies or cooperatives, domestic and foreign.
- ③ Domestic and foreign corporations not part of a larger conglomerate.
- ④ Multinationals not to our knowledge engaged in genetic engineering.
- ⑤ Multinationals who are engaged in genetic engineering.
- ⑥ Manufacturers of neonicotinoids: Bayer and Syngenta.

3241SG Spicy Green (21 days baby, 41 days mature) *B. j.* Mild yet snappy. Spicy Green out-tasted 12 contenders in its class of finely lobed wasabi-flavored mustard greens. Beautiful, vibrant and viridescent, it grows to 4 1/2" in just 21 days, ideal for cut baby greens. Develops into an elegantly furled and arching 12" long sauté leaf, withstanding summer's highs and autumn's lows with equal finesse. Packed with isothiocyanates, known to neutralize cancer-causing chemicals and interfere with tumor growth. * ⑤

A=1/16oz, \$1.30 B=1/8oz, \$2.40
 C=1/2oz, \$4.50 D=1oz, \$7.50
 E=4oz, \$20.00 K=1lb, \$60.00

3243GW Green Wave (45 days) *B. j.* This 1957 AAS winner is the best-adapted mustard for our climate. Its hot mustardy flavor makes it a prime ingredient in piquant mesclun. Not as hot when cooked. Will come back when cut; slow to bolt. Survived Roberta's overwintering trial. * ②

A=1/16oz, 90¢ B=1/8oz, \$1.60
 C=1/2oz, \$2.50 D=1oz, \$4.50
 E=4oz, \$8.00 K=1lb, \$22.00

3245RO Red Giant OG

(45 days) *B. j.* (integrifolia group) Large purple-tinted savoyed leaves make the 18" plants very decorative.

Color intensifies in cooler temperatures, as spiciness wanes. Tastes like horseradish to some, peppery to others. This heirloom Japanese mustard is a standard ingredient in spicy mesclun. Survived outdoor temperatures down to 18° when double-covered with Agribon 19. CCOF-certified. * ③

A=1/16oz, \$1.30 B=1/8oz, \$2.50 C=1/2oz, \$4.50 D=1oz, \$6.00
 E=4oz, \$15.00 K=1lb, \$48.00

3247PO Osaka Purple OG (45 days) *B. j.* Striking large purple-streaked green foliage with a zesty flavor that leaves a lingering tingle on the tongue. As the temperatures grow hotter, so do the leaves. A rapid grower, but more compact than Red Giant, mature at 12-14". Broad stems are also succulent. Used like Red Giant for mesclun and braising. Bag tag limits seed to a one-time use. AGRIOR-certified. ③

A=1/16oz, \$1.60 B=1/8oz, \$3.00 C=1/2oz, \$5.20 D=1oz, \$9.50
 E=4oz, \$30.00 K=1lb, \$115.00

3249MO Purple Rapa Mix Gene Pool OG (45 days) Another of Frank Morton's distinctive gene pools, Purple Rapa Mix is a select population of breeding material from crossing Pink Lettuce and Wong Bok with Scarlet Ohno. In his Wild Garden Seed catalog, Morton advertises it as "huge seeds for big competitive seedlings." Competitive is an understatement. As President Kennedy would have said, this one has "vigah," racing out of the starting gate and never looking back. Morton says best color in winter, but it showed plenty when planted April 18, nice tall frilly medium-hot serrated green leaves with purple veins and shading, with plenty of interesting variation between plants. Refusing to bolt, they grew into giants by July 4, sporting juicy midribs with an invigorating tang that gained heat as the weather did. Plenty of great salads here. OT-certified. ② ①

A=1/16oz, \$1.60 B=1/8oz, \$3.00 C=1/2oz, \$6.50
 D=1oz, \$12.00 E=4oz, \$40.00 K=1lb, \$130.00

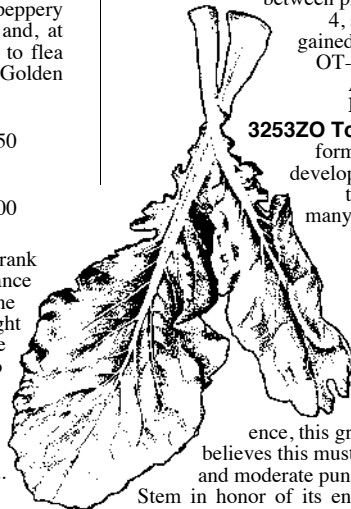
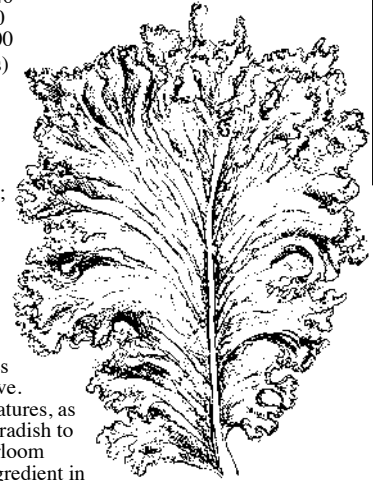
3253ZO Toraziroh OG (45 days) *B. alboglabra* A robust performer with just the right kind of mustardy bite. Rapidly develops prolific yields of very dark green large leaves distinctively but not overwhelmingly pungent. Has won many favorable reviews from brassica lovers. Stems, also edible, have a flavor somewhat like pac choy. Relatively slow to bolt. OT-certified. ①

A=1/16oz, \$1.50 B=1/8oz, \$2.80
 C=1/2oz, \$5.50 D=1oz, \$9.00
 E=4oz, \$26.00 K=1lb, \$95.00

3257CO Chinese Thick-Stem OG (47 days mesclun, 62 full size) *B. j.* When farmer-breeder Brett Grohsgal passed out samples of his winter-hardy greens at two workshops at a PASA conference, this green mustard was the hands-down favorite. Grohsgal believes this mustard has the "best balance between sweet succulence and moderate pungency of any of the five I grow." He called it Thick-Stem in honor of its enlarged midribs that give a heavier harvest for the farmer and better mass for the restaurant or home chef. Terrific for mesclun and an excellent cut-and-come-again performer with fast regrowth. Grohsgal has bred it for 100% freeze tolerance in Maryland. It survived Roberta's overwinter test in Maine. Needs good soil fertility, prefers clay or loam to sand, dislikes drought but can take wet. Bargain prices! MD-certified. * ①

A=1/16oz, \$1.60 B=1/8oz, \$3.00 C=1/2oz, \$11.00 D=1oz, \$20.00
 E=4oz, \$60.00

Color rings the doorbell of the human mind and emotion and then leaves. -Faber Birren



PAC CHOY

B. r. (*chinensis* group)

~12,500 seeds/oz. 1 g packet sows 18 ft;
1/16 oz packet sows 30 ft. Also known as Bok Choy. Pac Choy and carrots are among the best sources of beta carotene. Pac Choy is a good crop for microgreens.

3260SH Shuko (45 days) F-1 hybrid. Baby pac choy with green stems likes cool temperatures but resists bolting for a long time, even in heat. Vase-shaped 6–12" plants have broad green petioles with beautiful dark leaves. Tender and creamy when steamed or stir-fried. ©
A=1/16oz, \$1.30 B=1/8oz, \$2.50
C=1/2oz, \$4.50 D=1oz, \$8.00
E=4oz, \$21.00 K=1lb, \$70.00

3264PP Purple (48 days) F-1 hybrid. Adds versatility to mixes and salad. This new color in pac choy debuted in many 2009 seed catalogs. My favorite of several strains in the trial, showed the most vigorous early growth and darkest hue. Purple top leaves contrast with green veins and stems. Quick growers; harvest them within three weeks as 4–6" baby-leaf greens, their best spring use. For fall crops you may allow them to grow 8–10" full-sized heads. Along the way they lose some of their deep color and mature to a greenish purple. The purple coloring in vegetables such as this comes from anthocyanin, which improve memory and cell health. ©
A=1g, \$2.90 B=2g, \$5.40 C=4g, \$10.00 D=14g, \$28.00
E=28g, \$55.00

3270PO Prize Choy OG (50 days) Classy open-pollinated pac choy with celery-like white stems and vase-shaped 15–18" tall heads, like two vegetables in one with succulent stems and tender greens. Good for kimchi or stir-fries. WA-certified. ©
A=1/16oz, \$1.60 B=1/8oz, \$2.80 C=1/2oz, \$5.50 D=1oz, \$10.50
E=4oz, \$40.00 K=1lb, \$115.00

3273JC Joi Choi (50 days) F-1 hybrid. Leaves are much darker green than Prize Choy's and its basal stem is almost double the thickness, making it so succulent that trialer Adam Tomash prefers it to all other varieties. Market growers appreciate its uniformity. Suitable both for summer and fall crops, though much less likely to bolt in the fall. Do not disturb the roots when transplanting and space 1' apart. Bag tag limits seed to a one-time use. ©
A=1g, \$2.10 B=2g, \$4.00 C=4g, \$7.20 D=14g, \$20.00
E=28g, \$35.00

PERILLA *P. frutescens*

~500 seeds/g.

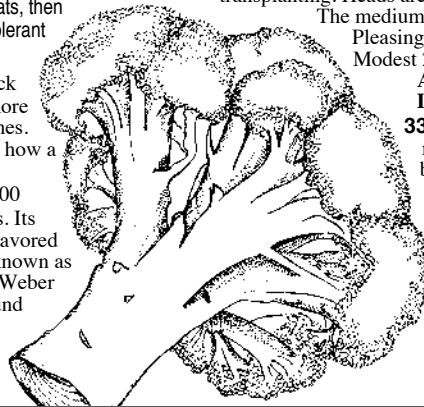
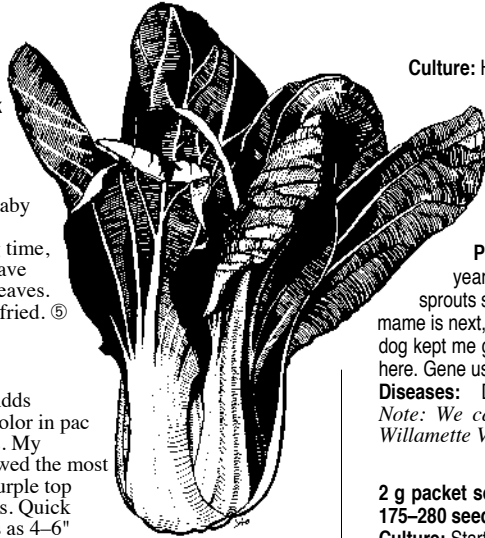
Culture: To break dormancy, freeze and thaw the seed several times over a 21–45 day period. Soak seeds several days or until they sprout. Move to indoor flats, then transplant into warm moist well-drained soil. Grows up to 4'. Absolutely intolerant of frost.

3282GP Kaori Green Shiso (85 days) *P. f. var crispa* Really back this time after a long hiatus. For true shiso aficionados, this is the more culinary variety; the red perilla is used primarily to add color to dishes. A friend waxed poetic about the virtues of shiso: it's like biting into how a fragrant flower smells. © **BACK!**

A=1g, \$1.90 B=4g, \$4.80 C=12g, \$12.00 D=36g, \$34.00

3283RS Red Shiso (85 days) Introduced from Japan in the 1850s. Its extremely ornamental curly purplish-red cinnamon-scented sharp-flavored leaves are used in sushi, sweet and sour sauces and stir-fries. Also known as *zi su*, a specific in Chinese medicine for seafood poisoning. Louise Weber of Greenwich, CT, asserts that deer won't touch it and plants it around their favorite crops. ©

A=1g, \$1.90 B=4g, \$4.80 C=12g, \$10.20 D=36g, \$25.00



BRASSICA

Culture: Hardy. Require warm temperatures to germinate (68–86° ideal) but need 60s during seedling stage for optimal growth; higher temperatures make seedlings leggy. Heavy feeders; for best growth, need regular moisture and 2–3' spacing. Have done well for us succeeding onions and garlic in beds. Cauliflower and broccoli are damaged by hard frosts, especially in spring. **Days to maturity are from direct seeding.** Subtract 20 days from date of transplanting. Young broccoli sproutlings make good microgreens.

Pests & diseases: See the insert below for more details. Based on eight years here in Colrain, MA, (AKA Woodchuck Heaven) broccoli and brussels sprouts seedlings are the preferred choice for groundhog gourmets. Young edamame is next, with beans, carrot and parsnip tops and sweet corn a distant third. Kai-dog kept me groundhog-free for over a decade in Maine, but did not make the move here. Gene uses Havahart traps.

Diseases: DM Downy Mildew

Note: We cannot ship brassica packets larger than 1/2 oz. (14g) into the Willamette Valley because of a rule issued by Oregon.

BROCCOLI *B. oleracea* (botrytis group)

2 g packet sows 45 ft. Average varies by cultivar from ~5,000–8,000 seeds/oz; 175–280 seeds/g.

Culture: Start broccoli indoors March–May for setting out May–July, or direct-seed in May or June for fall crop. Easier as a fall crop because many varieties perform poorly in hot summers. For better stands in dry conditions sow in trenches and keep irrigated. Broccoli dislikes the extreme temperature and moisture fluctuations we have endured in recent seasons. Climate change is making it a challenge to grow even the more heat-tolerant varieties in the summer, while at the same time broadening opportunities in our longer more temperate falls.

Nutrition and disclaimer: Broccoli contains significant levels of sulforaphane, a substance that helps detoxify carcinogens from the body. Some years back, research indicating that broccoli seed sprouts are higher in sulforaphane than the vegetable itself caused a run on open-pollinated broccoli seeds. *The broccoli seed we offer is not food grade and we cannot guarantee that it is fit for human consumption as sprouts. We have no control over the conditions in which it is stored before it reaches us. Please contact your natural foods wholesaler or retailer for sprouting seed.*

3303TG Tendergreen (67 days) F-1 hybrid. Vermont grower Altoon Sultan calls this a "wonderful early broccoli." Up to a week earlier than Packman's flat-top with a better looking 6–7" semi-domed head, though not stalwart in extreme heat. Heads matured Sept. 5 from a July 11 transplanting. Heads are lighter weight than the later-season varieties.

The medium-large beads do a good job of shedding water.

Pleasing blue-green color, tender and delicious flavor.

Modest 2–3" (occasionally 4") side shoots follow. ©

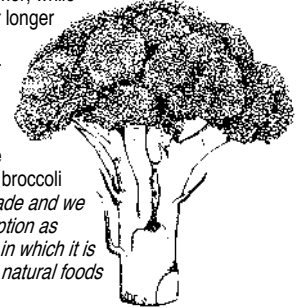
A=0.5g, \$1.40 B=1g, \$2.50 C=4g, \$6.50
D=14g, \$15.00 E=28g, \$26.00

3304LM Limba (70 days) Open-pollinated. So rare these days to find a reasonably priced OP broccoli that can perform in our summers. We thank staffer Michele Hansen who unearthed the Czech seed company who supplies us with this gem. Donna Dyrek started harvesting its light blue-green 8" semi-domed heads during the first week of August. It proved a good home-garden variety with medium beads, good flavor and texture, slow to bolt and decent production of side shoots, though not so many as 3312 Fiesta. ©

A=2g, \$1.40 B=4g, \$2.50

C=14g, \$7.50 D=28g, \$14.00

E=112g, \$45.00



Major pests: Cabbage Looper, Diamondback Moth, Imported Cabbageworm
Cultural controls: control cruciferous weeds near crop fields, till under crop debris of early season brassicas after harvest.
Materials: Spinosad (8685), Bt (8676-9).

Pest: Flea Beetle

Cultural controls: floating row covers (8814), mulch with straw, time plantings for fall harvested crops only, crop rotation, perimeter trap cropping.

Materials: AzaMax (8660), Spinosad (8685), Pyganic (8688).

Pest: Cabbage Root Maggot

Cultural controls: time planting to avoid first hatching, use row covers, control weeds.

Major diseases: Black Rot, Alternaria Leaf Spot, Blackleg, Club Root, Downy Mildew, White Mold

Cultural controls: avoid transplanting plants with yellow leaves or v-shaped lesions, crop rotation, destroy crop debris after harvest, avoid overhead irrigation, control weeds, allow for good air movement.

Materials: Actinovate (8634), copper compounds (8604) may help for some of these diseases.

Disease: Head Rot

Cultural controls: use well-domed varieties, harvest heads when tight, cut stalks at an angle.

Material: copper

Weight equivalents

| | |
|-------------|---------------------|
| 1 gram = | .035 oz |
| 2 grams = | .070 oz |
| 3 grams = | .106 oz |
| 4 grams = | .141 oz |
| 7 grams = | .247 oz |
| 10 grams = | .353 oz |
| 14 grams = | .494 oz |
| 15 grams = | .528 oz |
| 20 grams = | .710 oz |
| 28 grams = | .987 oz |
| 100 grams = | 3.53 oz or .220 lb |
| 112 grams = | 3.95 oz or .247 lb |
| 225 grams = | 7.93 oz or .496 lb |
| 340 grams = | 11.99 oz or .750 lb |

3306SO Solstice OG (71 days) Open-pollinated; has rapidly gained a following. Its tall leggy plants gave it its alias Oregon Long Neck. Donna Dyrek harvested her first trial head right on the summer solstice from an April 11 start. Its mild sweet heads, at 4-5" across, are intermediate between **3327 Piracicaba's** and those of the domed hybrids. Among the half dozen open-pollinated broccolis in our trial, Solstice was the most uniform and the sweetest, smaller in the summer and tastier in the fall even though turning purple in frost. Noted for its zillion side shoots that follow the main head. Best as a fall crop. Not adapted for summer crops in Zones 5 and south as heat causes irregular heads and side shoots. OT, ID-certified. Ω ①



A=0.5g, \$1.40 B=1g, \$2.50
C=4g, \$4.20 D=14g, \$8.00
E=28g, \$15.00 K=112g, \$46.00

3309GS Green Super (85 days) F-1 hybrid. At PEAS Farm in Missoula, MT, in 2014, farm caretaker Ellie Costello deemed this midseason broccoli "phenomenal." Despite challenging weather fluctuations, Green Super came through with beautiful long-holding 7" wide and 3" deep domes. Has also looked good in midsummer both in Massachusetts and Maine (Sharon Hopkins in Zone 4 Ripley, ME, was really pleased with it.) Holds its deep green pound-plus tight-beaded heads above splayed leaves for easy one-chop harvest. After the primary cut, the second growth creates vigorous side heads, not ho-hum shoots. Super's very healthy, very compact form begs to be snugly planted in efficient successions. Costello loved "Super Broc" roasted, and we enjoyed its excellent flavor and texture raw. Good eating combined with exemplary performance and space saving. ③

A=0.5g, \$1.50 B=1g, \$2.60 C=4g, \$6.30 D=14g, \$15.00
E=28g, \$26.00

3311GK Green King (85 days) F-1 hybrid. Exceptional tenderness made it the best-tasting of 23 varieties in our trial. King also scored high for its consistent yield of high-quality 8" heads. Market growers appreciate its uniform ripening. Vigorous plants bear thick blue-green domed heads with rather large beads. Side shoots are big enough to be marketable but not plentiful. Green King stands heat well. ③

A=0.5g, \$1.70 B=1g, \$2.80 C=4g, \$7.00 D=14g, \$17.00
E=28g, \$29.00

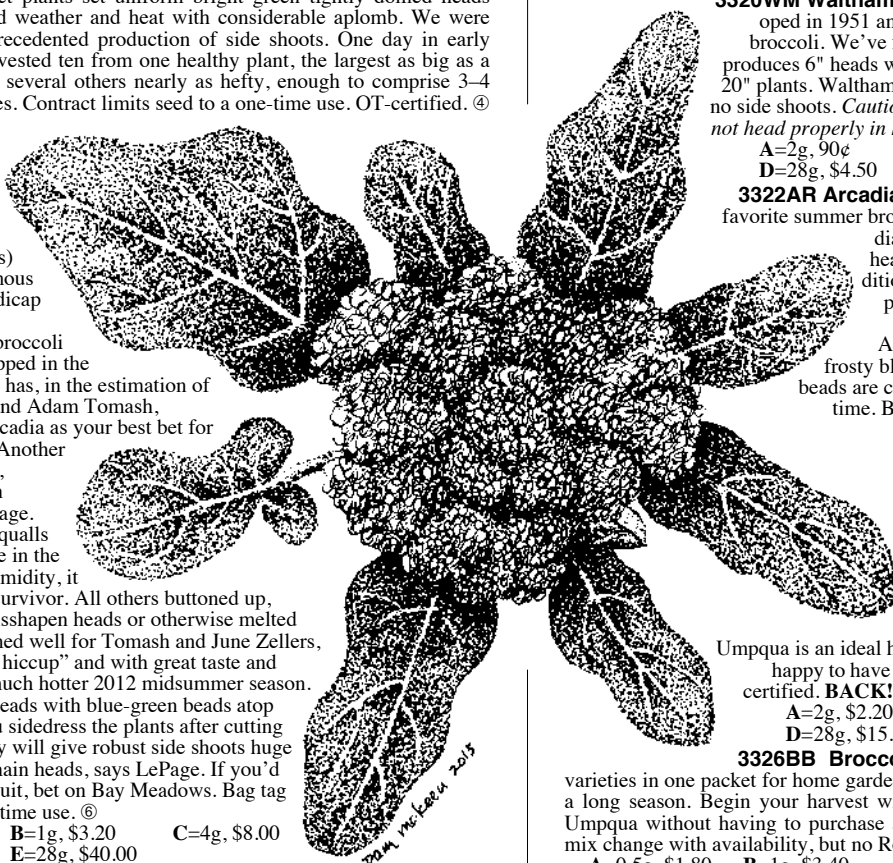
3312FO Fiesta OG (86 days) F-1 hybrid. Our first organic hybrid broccoli and top seller among the brocs (more than doubles the next best), good for midseason. Compact plants set uniform bright green tightly domed heads that stand both cold weather and heat with considerable aplomb. We were amazed by its unprecedented production of side shoots. One day in early October 2007 I harvested ten from one healthy plant, the largest as big as a main head at 6-7", several others nearly as hefty, enough to comprise 3-4 supermarket bunches. Contract limits seed to a one-time use. OT-certified. ④

A=0.2g, \$2.60 B=0.4g, \$4.80
C=1g, \$10.00 D=4g, \$34.00
E=28g, \$210.00

3313BM Bay Meadows (89 days)

F-1 hybrid. The famous Bay Meadows Handicap was twice won by Seabiscuit. If your broccoli program is handicapped in the heat, Bay Meadows has, in the estimation of both Alan LePage and Adam Tomash, supplanted **3322 Arcadia** as your best bet for summer broccoli. "Another leap in productivity, beautiful dark green heads," praises LePage. When June's cold squalls abruptly yielded late in the month to steamy humidity, it was my lone 2013 survivor. All others buttoned up, developed weird misshapen heads or otherwise melted down. Also performed well for Tomash and June Zellers, ripening "without a hiccup" and with great taste and appearance in the much hotter 2012 midsummer season. Well-domed 6-8" heads with blue-green beads atop strong plants. If you sidedress the plants after cutting the main heads, they will give robust side shoots huge enough to pass as main heads, says LePage. If you'd have bet on Seabiscuit, bet on Bay Meadows. Bag tag limits seed to a one-time use. ⑥

A=0.5g, \$1.90 B=1g, \$3.20 C=4g, \$8.00
D=14g, \$21.00 E=28g, \$40.00

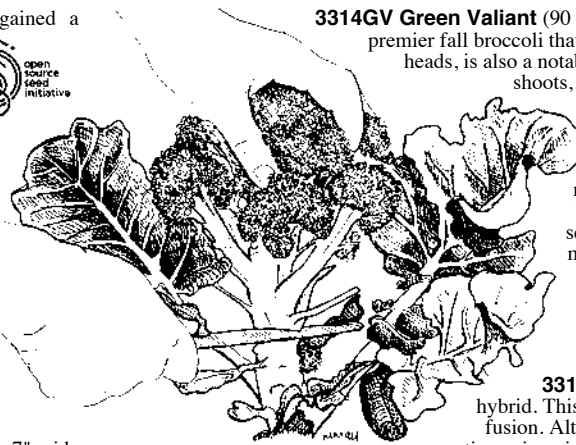


He had that curious love of green, which in individuals is always the sign of a subtle artistic temperament, and in nations is said to denote a laxity, if not a decadence of morals.
-Oscar Wilde

3314GV Green Valiant (90 days) F-1 hybrid. Valiant, a premier fall broccoli that makes beautiful tight 8-9" heads, is also a notable producer of prolific side shoots, second only to **3312 Fiesta**.

Compact plants with very dense light green heads on heavy stems. Not recommended for midsummer when heat causes irregular heading. Bag tag limits seed to a one-time use. Summer sales prices still hold. ⑤

A=0.5g, \$1.60 B=1g, \$2.80
C=4g, \$7.50 D=14g, \$18.00
E=28g, \$32.00



3315GY Gypsy (91 days) F-1 hybrid. This variety is produced by cell fusion. Although considered a form of genetic engineering in Europe, the cell fusion technique used to breed Gypsy does not employ recombinant DNA technology. The NOP ruling that cell fusion used as part of traditional breeding techniques may be permitted in organic production opened the door to our wandering Gypsy. Gypsy has in common with its namesakes the ruggedness to thrive in many different environments holding up reasonably well in the heat of summer, the cool of autumn, and in less-than-stellar soil. A reliable producer of large dome-shaped medium-green 8" heads with medium-tight beads that shed water well. Very uniform, very consistent. Stems and plants capable of growing massive; Adam Tomash harvested one head weighing 2.7 lb. From a May 15 indoor start, he cut his first main head on Aug. 14, 2012. Donna's was a little later on Sept. 2. Our trailers rate its flavor as excellent, sweet and tender. Sparse producer of side shoots. Bag tag limits seed to a one-time use. Tolerant to DM. ⑤

A=0.5g, \$1.90 B=1g, \$3.30 C=4g, \$9.00 D=14g, \$22.00
E=28g, \$40.00

Purple Peacock Gene Pool OG (92 days) Open-pollinated. Crop failure. *Not available in 2017.*

Thompson (92 days) Open-pollinated. We have dropped this variety. *No longer available.* However, we have a beautiful seed crop of **3325 Umpqua** that we recommend as a substitute.

3320WM Waltham 29 (92 days) Open-pollinated. Developed in 1951 and long considered the standard OP fall broccoli. We've found a reliable strain that consistently produces 6" heads with medium beads on attractive stocky 20" plants. Waltham delivers good-sized central heads, but no side shoots. *Caution: not suitable for summer crops; will not head properly in heat.* ②

A=2g, 90¢ B=4g, \$1.60 C=14g, \$3.00
D=28g, \$4.50 E=112g, \$7.00 K=448g, \$19.00

3322AR Arcadia (94 days) F-1 hybrid. Once LePage's favorite summer broccoli, he still regards workhorse Arcadia as "a great variety for wonderful first heads." Big rugged Arcadia rocks in conditions that reduce other broccolis to compost, standing up not only to some heat, but also to rot, mildew and cold stress. Arcadia's gently mounded dome-shaped frosty bluish-green heads of very refined small beads are consistently marketable and hold a long time. Bag tag limits seed to a one-time use. ⑤

A=0.5g, \$2.00 B=1g, \$3.40
C=4g, \$10.00 D=14g, \$23.00
E=28g, \$44.00

3325UO Umpqua OG (95 days)

Open-pollinated. Developed in 1990 by Tim Peters, gets its name from the Umpqua River in Oregon. Handsome uniform dark-green 5-6" heads. A great producer of abundant side shoots over a long harvest window, Umpqua is an ideal home-garden variety for the fall. We're happy to have a new and outstanding seed crop. WA-certified. **BACK!** ①

A=2g, \$2.20 B=4g, \$4.00 C=14g, \$9.00
D=28g, \$15.00 E=112g, \$48.00

3326BB Broccoli Blend (67-95 days) A mix of varieties in one packet for home gardeners who want broccoli to mature over a long season. Begin your harvest with Tendergreen and carry through to Umpqua without having to purchase a full packet of each. Varieties in the mix change with availability, but no Romanesco or Piracicaba.

A=0.5g, \$1.80 B=1g, \$3.40 C=4g, \$10.50 D=14g, \$28.00

Non-Heading Broccoli *B. o.* (botrytis group)

3327PC Piracicaba (56 days) Open-pollinated. This broccolini type has garnered many accolades. Several growers prefer its flavor to that of hybrid broccoli and noticed their customers increasingly choosing it instead. "People were buying four or five bunches at a time and I couldn't bring enough to market," observed Carol Thomas of Sweet Briar Herb Farm in Onalaska, WA. About halfway between a heading broccoli and a broccolini raab, these succulent tender small green heads with very large beads make delightful raw eating. Very loose heads, lots of side shoots, sweet stalks. Even the fairly large leaves make excellent greens. Garden writer Barbara Damrosch found it equally delicious steamed. Alan LePage says sidedressing it in the summer yields great cuttings in the fall. NY State trialers report it is best as a fall crop with relatively good frost tolerance, although it was bred in Brazil in the city of its name (pronounced peer-a-SEA-cah-bah) to withstand heat. We are pleased to again have a full crop. ②

A=2g, \$2.30 B=4g, \$4.50 C=14g, \$10.00 D=28g, \$16.00
E=112g, \$50.00 K=448g, \$180.00

Romanesco *B. o.* (botrytis group)

One of the most beautiful of plants when grown well. Chef Odessa Piper calls romanesco's cone-shaped somewhat irregular whorl of chartreuse florets "broccoli on acid."

Culture: Needs adequate spacing, a long season and extremely high soil fertility. We had fantastic results planting in raised beds with 8" of well-rotted manure. Well-grown plants are huge and need about 10 sq ft each. Should be started indoors in March or April and transplanted out in late May or June. Be patient; needs a long season but doesn't mind cool weather.

3329VR Veronica (98 days) F-1 hybrid. A reliable and refined version of Romanesco broccoli. Tender and delicate as a crudité, combines sweetness with a fine brassica zing, quite flavorful cooked. First ripened Sept. 16-19, 2013, for trialer Donna Dyrek and was still producing in mid-October from a May 27 greenhouse start. The supplier claims average weight is 4 lb per head, but in conditions of high fertility and wide spacing, Dyrek's averaged 8" across and 5 lb. For fall production only. Resists purpling and red tipping during heat. Contract limits seed to a one-time use. ④

A=0.1g, \$2.70 B=0.3g, \$7.00 C=1.2g, \$24.00 D=6g, \$90.00

BRUSSELS SPROUTS *B. o.* (gemmifera group)

~5,000 seeds/oz; 175 seeds/g.

Culture: My cole crop of choice, but fussy like cauliflower and requires a long season. Start indoors no later than early April and transplant into very fertile soil. Around Sept 1, top the plants. When I experimented by topping some and leaving others, the difference was dramatic. Within two weeks the topped plants were putting all their energy into making sprouts while the untopped plants continued to shoot up more foliage and made only minuscule sprouts. Very hardy, improved by frost and can be harvested past the first snowfall.

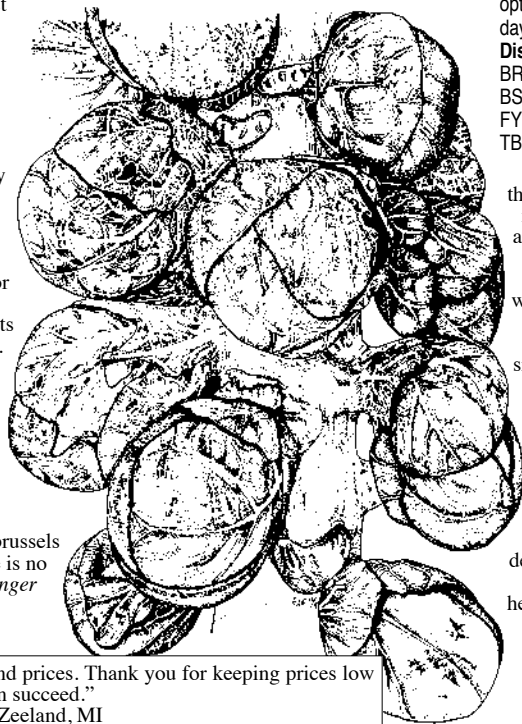
Days to maturity are from direct seed. Subtract 20 days for transplants.

3334HT Hestia (93 days) F-1 hybrid. If you have trouble growing decent brussels sprouts, here at last is a variety that is early and easy. Only the second brussels sprouts variety ever to win an All-America award (2015), Hestia was named for the Greek goddess of hearth and home. Though the award was for the Southeast and Mountain/Southwest regions, she proved extremely well-adapted to the Northeast where she thrived in my 2015 plots. Hestia claims the unusual distinction of both ripening early and holding its quality on the 24-30" tall plants. It doesn't succumb easily to disease. Develops higher sugars than most sprouts in warmer weather, making for succulent eating. A great variety to start the season, its 1" sprouts are medium size. Contract limits seed to a one-time use. ④ **NEW!**

A=0.25g, \$3.00
B=0.5g, \$5.00
C=1g, \$8.00
D=4g, \$26.00
E=16g, \$96.00

Roodnerf (96 days)

Open-pollinated. This OP brussels sprout with the funny name is no longer in production. *No longer available.*



"Love your selection and prices. Thank you for keeping prices low so we small farmers can succeed."

-Dawn Devereaux, Zeeland, MI

3339GU Gustus (99 days) F-1 hybrid. Steady sales increases have made Gustus our #1 brussels sprouts variety. My find from 2009, the coldest summer in forty years. I have never grown such robust brussels sprouts plants before or since. Michael Zuck of Bangor, ME, judges Gustus as "the absolute pinnacle of the brussels sprouts breeder's art. The quality of the sprouts is amazing, very dense and sweet. No other sprout compares with Gustus, and I've tried as many varieties as I could get my hands on over the years. I believe with 32° refrigeration they might keep into June." The sprouts are medium-sized, slightly oval, remarkably uniform (perfect for market) and grow large farther up the stalk after the plants get topped. In 2009 they showed not a hint of rot, even after two hurricane rains. A representative sample of 10 weighed a respectable 6 oz. Won our taste test with a smooth texture and no cole-ish aftertaste. Enjoy them with gusto! Bag tag limits seed to a one-time use. ⑥

A=0.5g, \$2.80 B=1g, \$5.40 C=4g, \$18.00 D=14g, \$55.00
E=28g, \$105.00

3341FS Falstaff (102 days) Open-pollinated. I loved the beauty of red varieties such as Rubine, but never could get a single sprout to mature until I found Falstaff. Falstaff is not only ornamental but also extremely savory. Cooking brings out its tender nutty sweetness while allowing it to retain bluish-purple pigments. It cooks quickly, though, so don't overdo it. Good production one year, only fair the next, sprouts with beautiful color, wide size variation, but most quite small compared to the green hybrids, and can be late coming. The color intensifies after a hard frost. The plants tend to sprawl. ③

A=0.5g, \$1.70 B=1g, \$2.60 C=4g, \$6.50 D=14g, \$14.00
E=28g, \$25.00

3344DB Diablo (110 days) F-1 hybrid. Home gardeners have yet to give this devil its due. It might be a little slow getting going, but for those who have a long enough season, Diablo is dependable and productive. These are uniform good-looking solid medium-sized sprouts of good quality. A representative sample of 10 sprouts weighed 7 oz in the 2009 trial. CSA grower Jan Goranson recommended Diablo for its disease resistance and ability to produce a consistent sprout every time. Contract limits seed to a one-time use. ④

A=0.5g, \$2.90 B=1g, \$5.60 C=4g, \$22.00 D=14g, \$60.00
E=28g, \$115.00

CABBAGE *B. o.* (capitata group)

~6,000-7,000 seeds/oz; 210-250 seeds/g.

Blue-purple foods such as red cabbage and purple cauliflower contain anthocyanins and phenolics, which benefit the urinary tract, memory and immune system.

Culture: Exposure to hoarfrost is good for cabbages. They double their sugar content after one month of cold.

Red cabbage seedlings are often used for microgreens.

Minimum germination soil temperature 40°, optimal range 55-95°, optimal temperature 77°. Emergence takes 15 days at 50°, 9 days at 59°, 5 days at 77°.

Diseases: For further information see the sidebar on page 50.

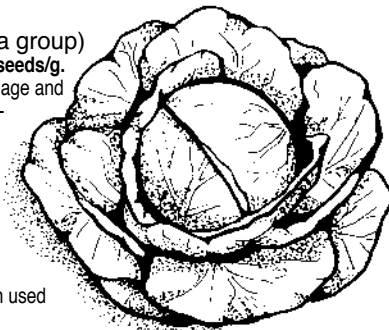
BR Black Rot
BS Bacterial Speck
FY Fusarium Yellows
TB Tipburn

3352GA Golden Acre (62 days) Open-pollinated. The best choice for those preferring an early open-pollinated cabbage that's not a pointy-headed intellectual from Jersey. A selection of the Copenhagen Market type billed as "new...the earliest of the round-headed cabbages" in the 1928 Jerome B. Rice catalog. Grey-green heads, some with a faint reddish tint in the outer leaves, average 3-5 lb. Our trialers found them big, round and solid with white interiors. 75% of them were marketable. Tasters praised their delicate but crunchy texture, sweet and spicy flavor that developed buttery undertones after cooking. Short stems with sparse wrapper leaves and medium-sized core keep plants compact. Not long standing. ②

A=2g, 90¢ B=4g, \$1.60 C=14g, \$3.00
D=28g, \$4.50 E=112g, \$9.00 K=448g, \$18.00

3355EJ Early Jersey Wakefield (63 days) Open-pollinated. This classic early cabbage originated in England in the early 1800s, was first grown in America in 1840, perfected by a German truck gardener in northern New Jersey and released by Peter Henderson in 1868. Henderson in 1902 asserted that "it was more largely grown than all other first early cabbages combined" and called it an "old reliable always to be depended upon for its uniformity in earliness and crop." Anne Elder considers it a great fall cabbage as well. Wakefield's compact medium 2-3 lb heads are distinctively pointy. The pyramidal shape with sparse outside foliage permits close spacing. Tender flavorful waxy-looking Wakefield has stood the test of the ages and is still prized by home and market gardeners. Shows some variation in our lot grow-outs. Not for storage. ②④

A=2g, 90¢ B=4g, \$1.60 C=14g, \$3.00 D=28g, \$4.50
E=112g, \$9.00 K=448g, \$18.00





Next time you boil some red cabbage, save the cooking water and conduct your own demonstration of the beautiful color-changing capabilities of anthocyanins. To one sample of the cooking water, add a few drops of vinegar, to increase acidity. To another sample, add baking soda to reduce acidity.



3358GZ Gonzales (66 days) F-1 hybrid. These days many families like compact cabbages. Commercial growers like them, too, because they can plant densely for a high return per acre. Gonzales is our choice in the early baby cabbage class. The round upright heads are slightly larger than softballs when mature, about 4–6" in diameter weighing no more than 3 lb. Good medium-green color with a short core. Dense, sweet and spicy with fair holding qualities. Tender, makes a good summer slaw. Contract limits seed to a one-time use. ④

A=0.5g, \$1.90 B=1g, \$3.60 C=4g, \$10.50 D=14g, \$28.00
E=28g, \$54.00

Summer Glory (68 days) F-1 hybrid. No crop. *Not available in 2017.*

3370SR Super Red 80 (80 days) F-1 hybrid. Super Red 80 ripens well before **3375 Ruby Perfection**, with smooth tight round medium-dark red 3–5 lb heads. Splendid appearance will appeal to market growers. Resists splitting, holds better than **3358 Gonzales**. Tender and crisp with a pleasing flavor. Supplier is dropping this variety. Bag tag limits seed to a one-time use. *This is the last year we will offer.* Tolerates BR and TB. ⑤

A=0.5g, \$2.20 B=1g, \$4.00

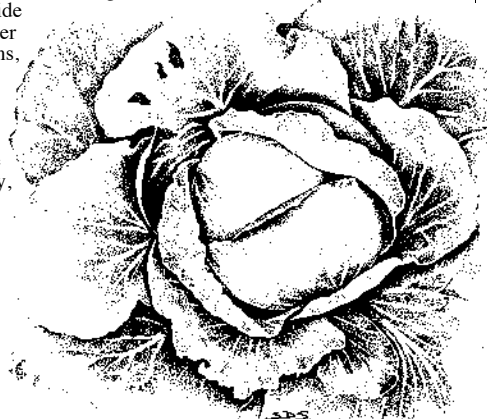
3375RP Ruby Perfection (85 days) F-1 hybrid. This fancy midseason type has produced some of the loveliest cabbage we've ever seen: solid deep purple-red spherical heads averaging 4–6 lb, occasionally reaching 8 lb. "Hard as a rock," observed Jason Kafka. A great storage cabbage; will keep till May in the root cellar. Low tolerance to BR. Survived outdoor temperatures of 18° double-covered under Agribon 19. ⑤

A=0.5g, \$2.30 B=1g, \$4.20 C=4g, \$13.00 D=14g, \$38.00
E=28g, \$70.00

3378ML Melissa Savoy (85 days) F-1 hybrid. A gorgeous savoy, with 2–4 lb solid slightly flattened light green heads surrounded by attractive dark blue-green waxy wrapper leaves. Can grow twice that size given high fertility and wide spacing. A vigorous grower even in cold wet conditions.

Melissa ripens around Sept. 1 from early June transplanting. Flavor improves with cold weather. Adapted to close spacing. For dependability, uniformity, attractiveness and taste, Melissa can't be topped. FY, TB tolerant. Contract limits seed to a one-time use. ④

A=0.5g, \$2.90
B=1g, \$5.60
C=4g, \$21.00
D=14g, \$65.00
E=28g, \$125.00



3380FG Frigga Savoy (86 days) Open-pollinated. Usually grows compact 3 lb round 6" balls, though under wide spacing and high fertility can achieve double that size. As handsome a plant as I ever hope to see with highly savoyed dark green wrapper leaves curling tightly around the core. Real cabbage flavor with some sweetness, texture on the dry side. Holds in the field for a month after maturity. For savoy connoisseurs. ③

A=2g, \$1.60 B=4g, \$3.00 C=14g, \$5.80 D=28g, \$9.20
E=112g, \$28.00 K=448g, \$90.00

3384DV Des Vertus Savoy (95 days) Open-pollinated. From the 1800s, also known as Large Drumhead Savoy. French variety features medium-green large heads averaging 4–6 lb. Flavor is mild and juicy, semi-sweet. ②

A=2g, \$1.60 B=4g, \$3.00 C=14g, \$5.80 D=28g, \$10.00
E=112g, \$30.00 K=448g, \$105.00

3389RR Mammoth Red Rock (100 days) Open-pollinated. A large late storage cabbage with firm flattened round 5–8 lb heads, 8–10" across and red-purple to the core. Rated as a good keeper with a crisp sweet taste. This favorite goes back to 1889. Vaughan in 1904 called it "the surest heading red cabbage ever introduced." R.B. Dunning & Co. of Bangor, ME, sold a packet for a nickel and an ounce for 35¢ in 1936. ②

A=2g, \$1.00 B=4g, \$1.80 C=14g, \$3.20 D=28g, \$4.00
E=112g, \$8.50 K=448g, \$21.00

3390TB Tribute (103 days) F-1 hybrid. This spectacular autumn cabbage made gigundo solid round 10–12 lb blue-green heads reaching 10" across that figuratively jumped out at me in the 2013 trial even though I wasn't planning to add another cabbage. 100% were marketable. Earlier and larger than **3394 Bartolo** with huge wrapper leaves that provide perfect ground cover to stifle weeds. Unfortunately not a great keeper, softening and splitting by December, so enjoy it in fall when it is sweet and crunchy raw with a mild tang and a cabbage taste in its ribs. Good flavor for such a big cabbage, makes great sauerkraut. Remained sweet with a subtle brassica flavor when cooked, a close second or tied for first with **3352 Golden Acre** for tops in our test. Fully ripe around Oct. 1 from a July 10 transplanting. Give this champ some space as well as Tribute. ③

A=0.5g, \$1.40 B=1g, \$2.50 C=4g, \$5.50 D=14g, \$12.00
E=28g, \$22.00

3391DD Deacon Savoy (105 days) F-1 hybrid. While its lovely savoyed pinkish-purple outer leaves dusted with grey are often used for garnish, its light green interior core is great for salads and cole slaw. The outer color intensifies as temperatures cool in the fall. Sets solid medium-large 3–6 lb heads of 6–10" diameter with densely packed innermost leaves that are very sweet with a spicy nip. Dead certain to be a flavorful cool-weather treat. It even over-wintered in Donna Dyrek's trials, so it can nourish you in spring as well as late fall. Contract limits seed to a one-time use. Resists FY. * ④

A=0.1g, \$2.20 B=0.3g, \$4.00 C=1.2g, \$12.50 D=6g, \$52.00

3392GM Gunma (110 days) F-1 hybrid. Named for a prefecture on Honshu Island in Japan known for its cabbage production. Our choice for a superior flat-topped green cabbage ideal for cooks and gourmets, good for kraut and kimchi. Its good moisture content makes sufficient brine so that you don't need to add more to the kraut. Its large heads (avg 5–7 lb but can get up to 11–13 lb) grow nearly 1' across, yet remain almost coreless. Although ready on Aug. 2 from a May 21 transplanting, these cabbages sat in the field for two months without splitting. Sweet tender wrapper leaves suitable for cabbage wraps and rolls. Outer leaves can't hold up once nighttime temperatures plummet to the 20s, so not for storage. Resists Contract limits seed to a one-time use. FY, TB ④

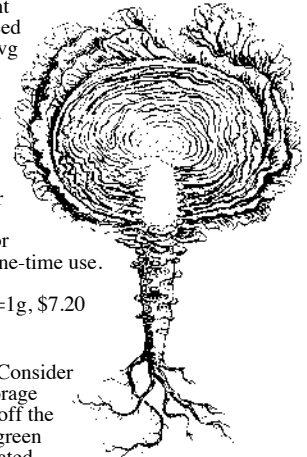
A=0.2g, \$2.10 B=0.4g, \$4.00 C=1g, \$7.20
D=4g, \$25.00
E=28g, \$160.00

3394BT Bartolo (115 days) F-1 hybrid. Consider Bartolo if you need an excellent hybrid storage cabbage that will last until May. Sits high off the ground with large hard round 4–8 lb dark green heads, well protected with waxy thick serrated wrapper leaves. Very high-yielding and a beautiful plant in our trials, 90% marketable heads. Robust peppery flavor. Contract limits seed to a one-time use. Tolerates BS and TB. ④

A=0.5g, \$2.70 B=1g, \$5.20 C=4g, \$20.00 D=14g, \$68.00
E=28g, \$130.00

3397WR Wirosa Savoy (125 days) F-1 hybrid. Wirosa proved to be one savoy selection too many for us, so *this will be its last year in the catalog.* Nevertheless, it is ideal for late autumn and capable of wintering over with protection. The solid uniform 8" glossy blue-green heads are closely wrapped with crinkly leaves. From an Aug. 18 start and mid-September transplanting, 4 of 6 survived a mild Maine winter with no protection except snow cover. They continued growing all the next summer, not finishing until mid-September, so as a winter cabbage they need more than a year. With an early spring start they'll be ready the same fall. Good yields and quality for fresh market and storage. On sale, take advantage and give it a good send-off! Contract limits seed to a one-time use. * ④

A=0.1g, \$1.80 B=0.3g, \$3.50 C=1.2g, \$10.00 D=6g, \$36.00



CAULIFLOWER *B. o.* (botrytis group)

~6,000–7,000 seeds/oz; 210–250 seeds/g.

Culture: Start like broccoli but needs more TLC. Do not allow to get pot-bound; avoid interruptions in growth. Cauliflower heads will “button” under stress. Most varieties can’t stand the heat and are not suitable for summer production. When heads first appear, bend leaves over curd to prevent discoloring.

Minimum germination temp 40°, optimal range 55–80°, ideal temp 77°. Emergence takes 20 days at 50°, 10 days at 59°, 6 days at 68°, 63% normal seedlings at 77%, only 45% normal seedlings at 86°.

Days to maturity are from direct seed.

Subtract 20 days for transplants.

Charming Snow (60 days) Availability was uncertain at press time. Check our website for availability and prices.

3410SC Snow Crown (70 days)

F-1 hybrid. Nothing comes close to Snow Crown for the second-early slot. Makes cauliflower a cinch to grow. Dependable producer of uniform 6–7” heads early summer through October. Drought resistant. Sometimes develops pink heads in adverse conditions. 1975 All-America winner from Takii. ⑤

A=0.5g, \$2.20 B=1g, \$4.20 C=4g, \$12.00 D=14g, \$39.00
E=28g, \$72.00

3413VV Vitaverde (76 days) F-1 hybrid. With compact, somewhat raised and clustered, bold bright green curd, Vitaverde cauliflower looks almost ready to boil over into romanesco form. The 1.8 lb heads measure 6” wide by 4 1/4” deep, adding heft to eye-catching color. Raw, Vitaverde is crunchy and dense like a romanesco, not grainy or ricey. The sweet mild cauliflower flavor has only a hint of sharpness. Steamed, the texture becomes smooth and slightly firm, and the flavor mild, savory and satisfying. Its lively green is slightly diminished to a warm rich shade, keeping accent and excitement on the plate and the palate. Tiny seeds, nearly 40 per packet. ④

A=0.1g, \$2.40 B=0.2g, \$3.90 C=1g, \$11.50

3417GR Graffiti (80 days) F-1 hybrid. As if aliens had landed in the cauliflower patch, the brilliant—almost psychedelic—purple of these good-sized heads is decidedly other-worldly and will draw customers to your market display. Vibrant Graffiti boasts a true cauliflower head on large plants with dark green leaves. Resists summer heat and performs even in drought, but very slow to head up in cool weather. Day-glo florets make delightful crudité, a delicious cooked vegetable or colorful kimchi. The color fades to bluish-purple when cooked, but can be preserved by adding a tablespoon of lemon juice to the cooking water. Very expensive seed; packets have roughly 15 seeds. Bag tag limits seeds to a one-time use. ⑥

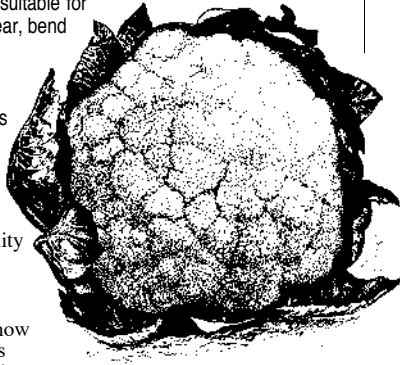
A=0.1g, \$2.80 B=0.2g, \$5.20 C=1g, \$15.00 D=4g, \$55.00
E=16g, \$198.00 K=32g, \$375.00

3425SB Snowbowl (83 days) F-1 hybrid. Not another college football bowl game, instead a pun on the old OP Snowball varieties, a huge improvement over all of them and likely national champion in the early-midseason class. Rated the best-flavored cauliflower in our trials, “a real wower” says Nikos. Delicate, chewable, tender, buttery, fine-textured and creamy cooked, report our tasters. Wrapper leaves extend upward, not out, contributing to the extra white color of these well-protected curds. Maturity is very uniform, all within a one-week window. For best quality, inspect your patch frequently and be prepared to harvest at the 5–6” stage when these dense dome-shaped 1 1/2 lb heads remain very tight. Compact plant habit permits close 20–24” spacing for high yields and quick successions, a big plus for market growers. 22” tall. Have not tested for summer harvest but may be worth a small trial. Bag tag limits seed to a one-time use. (See explanation on page 3.) ⑤

A=0.5g, \$2.40 B=1g, \$4.20 C=4g, \$16.00 D=14g, \$46.00
E=28g, \$85.00

3428SM Snow Mystique (93 days) F-1 hybrid. On Oct. 11 our trialer noted, “I went out today and found two absolutely beautiful and large heads of Snow Mystique. Big, tight and gorgeous!” Mystique has all the attributes we loved in Cassius: clean white dense well-proportioned heads, the same good upright habit and the dome shape to ward off excess moisture plus a tender flavor not expected from such a massive plant. Massive it was, heads rated at 1.8 lb average by our supplier, but double that weight in our trial. Perfect for end of September and early October when cauliflower is at its best in our climate. Can be slow-growing in higher elevations and cold spots. ⑤

A=0.5g, \$2.30 B=1g, \$4.00 C=4g, \$14.00 D=14g, \$39.00
E=28g, \$76.00



3438CC Candid Charm (95 days) F-1 hybrid. We have in the past bragged about the awesome 6–9 lb heads Candid Charm sometimes produces. Now Barbara Weiss of Mariaville, ME, joins us in these plaudits. “I harvested it by the wheelbarrow load literally. Absolutely huge delicious heads,” she says. Remarkably consistent in maturing marketable 4–5 lb snow-white curds within a 3–4 day window even in marginal years. Adapted to fall production only. Easy to grow and not fussy then. Bag tag limits seed to a one-time use. ⑤

A=0.5g, \$2.70 B=1g, \$5.00 C=4g, \$18.00 D=14g, \$62.00
E=28g, \$120.00

3440SY Symphony (96 days) F-1 hybrid. Immense heads, up to a foot

across, look like they were injected with an apocryphal BGH—that’s Brassica Growth Hormone. But we won’t disqualify them from the Brassica Hall of Fame without proof! The classiest as well as the largest cauliflowers trialer Donna Dyrek ever grew, as tight as they were enormous, with no hollow stems. She raved about their sweetness and lack of brassica bite.

Dyrek started the seeds on May 30, transplanted them on July 8 and harvested Symphony the 2nd week of October 2007. Requiring a long season, Symphony is for fall harvest only. Donna, what’s in that manure you use, anyway? Bag tag limits seed to a one-time use. ⑥

A=0.2g, \$1.90 B=0.4g, \$3.20 C=1g, \$6.00 D=4g, \$21.00
E=28g, \$96.00

COLLARDS *B. o.* (acephala group)

To avoid flea beetles, plant in July for September maturity. Collards and kale are excellent microgreen crops.

3441VT Vates (60 days) Open-pollinated. Because of their cold hardiness, collards were a miracle crop that sustained many southern folks through the winters during the Great Depression. Any search for a Dr. Vates who bred the famous collard and kale varieties of this name would be to no avail. Vates is the acronym for Virginia Truck Experiment Station, a hotbed of collard research from 1907–1967. Introduced in the 1930s, this was probably the best-known of all the many developed there. Large upright 1 1/2–2’ plants give generous harvests of dark green thick crumpled leaves with a mild cabbage-like flavor. Will overwinter in high tunnels in our climate. * ②④

A=2g, 90¢ B=4g, \$1.50 C=14g, \$2.60 D=28g, \$4.00
E=112g, \$5.50 K=448g, \$14.00

3442GO Cascade Glaze OG (60 days) Open-pollinated. A re-selection of the venerable 1820 heirloom Green Glaze, by Alan Kapuler, Jeff McCormack and Carol Deppe (see 9372 in the books section). Endared to southerners as “creasy” or “greasy” greens for its smooth glossy green leaves. The waxy texture that gives the leaves their distinctive green sheen also imparts heat and cold tolerance and resistance to cabbage worms and loopers. Where temperatures stay above 0°, Glaze can overwinter. The delicate-looking leaves, delicious steamed, are at their sweet tender best early in the season or in late fall after they’ve been nipped by frost. Last offered by Fedco in 2012. *Seed in short supply; order early.* * CCOF, WA-certified. ① **BACK!**

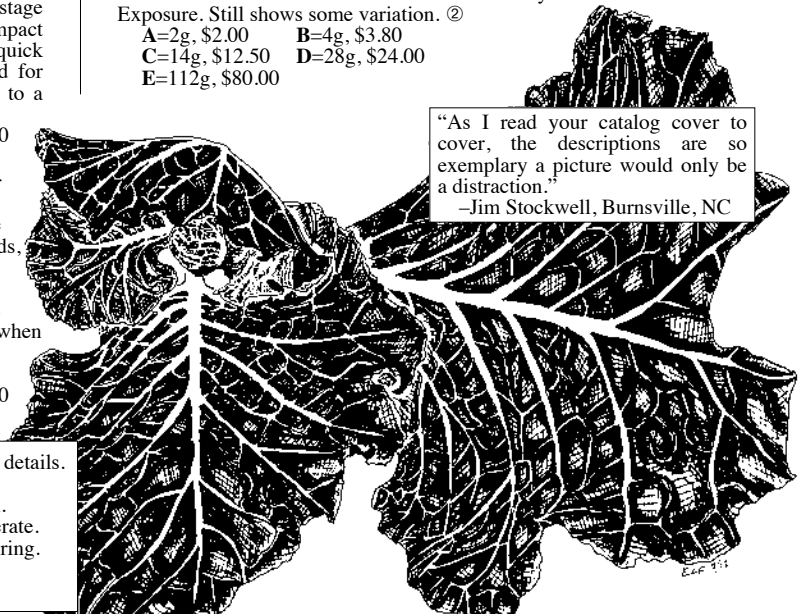
A=2g, \$2.10 B=4g, \$4.00

3444VC Variegated ECO (61 days) Open-pollinated. Appearances can be deceiving. The variegation doesn’t appear until frost. In my initial look at Donna Dyrek’s trials one August its waxy leaves had a sickly yellow-green hue. When I returned after the nights got nippy, the plants had transformed, developing beautiful white ribs for a dazzling display of contrasting color. Not just eye candy, they’re also sweet and tender eating. Dyrek has been enjoying them for years. When fall comes around she throws the Champions to the animals and heads for Variegated. Florida family heirloom dating back to around 1910 was introduced 1999 by our friends at Southern Exposure. Still shows some variation. ②

A=2g, \$2.00 B=4g, \$3.80
C=14g, \$12.50 D=28g, \$24.00
E=112g, \$80.00

“As I read your catalog cover to cover, the descriptions are so exemplary a picture would only be a distraction.”

—Jim Stockwell, Burnsville, NC



Supplier Codes Know where your seed comes from! See page 4 for details.

- ① Small seed farmers including Fedco staff.
- ② Family-owned companies or cooperatives, domestic and foreign.
- ③ Domestic and foreign corporations not part of a larger conglomerate.
- ④ Multinationals not to our knowledge engaged in genetic engineering.
- ⑤ Multinationals who are engaged in genetic engineering.
- ⑥ Manufacturers of neonicotinoids: Bayer and Syngenta.

KALE

~5,000–8,000 seeds/oz; 175–280 seeds/g. Scientists say kale descends from wild cabbage, a plant found primarily on the lime cliffs of coastal Europe. Originating in Greece, kale was enjoyed for thousands of years throughout Europe where it was the most common green vegetable until the Middle Ages when cabbage became more popular.

Rich in Vitamins A, C and K. Its high fiber helps lower cholesterol and decreases risk of heart disease. It contains eye-health compounds such as lutein. One cup provides more Vitamin C than a glass of orange juice, more calcium than a cup of milk, more potassium than a banana and, per calorie, more iron than beef. Kale may be used in textured flavorful salads, steamed or braised as a side dish, mixed in omelettes, lasagna and stews, and made into chips.

Culture: Important crop in colder climates owing to its natural resistance to frost, kale is sweeter after exposure to cold. To enjoy it at its best and to avoid the worst of the flea beetle season, direct seed in July or August for late-season maturity.

Curly Leaf Kale *B. o.* (acephala group)

3449KO Scarlet OG (30 days baby, 55 days mature) Open-pollinated. Redbor has been hard to obtain in recent years so we debuted this good substitute on our website last year. It is comparable to Redbor in plant height, leaf shape and color. Suitable for baby leaf or bunching. Enjoy its frilly purple leaves. Now available certified organic. **NEW!** in our catalog, offered previously on our website. CCOF-certified. ©

A=2g, \$1.60 B=4g, \$2.80 C=14g, \$8.00
D=28g, \$14.00 E=112g, \$50.00

3450VO Vates Dwarf Blue Curled Scotch OG (30 days baby, 56 days mature) Open-pollinated. The lengthy original name of this standard kale is usually shortened to Vates or Blue Scotch. The most commonly grown kale variety, it was introduced in 1950 by VTES (see 3441) out of the pre-1865 heirloom variety Dwarf Green Curled. Dense frilly finely curled blue-green leaves on compact upright 12–16" plants stand well, maintain color and resist yellowing in cold and heat. Hardy and productive. Best as a fall crop, planted in July or early August. More variable than the hybrids. CCOF-certified. * ©

A=2g, \$1.50 B=4g, \$2.80 C=14g, \$4.50 D=28g, \$8.00
E=112g, \$16.00 K=448g, \$60.00

3451BO Beedy's Camden OG (60 days) Open-pollinated. Could give Camden, currently known as a tourist attraction on the Maine coast, a new claim to fame. Social-justice advocate Beedy Parker provided us with seed for this hardy green kale that overwinters for her in Zone 5, and usually comes back with great gusto for me in Colrain, MA, self-sowing year-round! It has not survived winters at Donna Dyrek's in Zone 4 in Hartland, ME, but reliably overwinters for Cynthia Phinney in her Zone 4 garden in East Livermore, ME. She says the leaves die off rapidly with the onset of really cold weather, but the plants live and re-sprout leaves in the spring plus she finds new baby plants volunteering. Abundant wavy blue-green leaves are full to the bottom, not as tightly ruffled as Winterbor and can grow enormous. Phinney calls it "the one kale that is tender and sweet enough to enjoy in summer." More tender than the Siberian types and lasts longer into the fall. Fedco produced 13 lb of stock seed this summer to keep Beedy's in the catalog. ©2009. * MOFGA-certified. ①

A=1g, \$1.50 B=4g, \$3.50 C=14g, \$7.00 D=28g, \$12.00
E=112g, \$45.00 K=448g, \$125.00

Redbor (60 days) F-1 hybrid and **Winterbor** (60 days) F-1 hybrids. Supply has been unreliable in recent years and at press time was uncertain. Please check our website fedcoseeds.com for availability and prices. Contract for each variety limits seed to a one-time use.

3457LO Rainbow Lacinato OG (61 days) Open-pollinated.

Kale fans lamenting the fickle supply of several varieties much in demand will be thrilled that the 3-year hiatus for Rainbow Lacinato is over. Who but Frank Morton would think to cross Lacinato with Redbor? The result? A spectacular kale that combines some of the best features of both. Curly edges, red veins, purple leaves, blue-green leaves, what a banquet of diverse shapes and colors. Dinosaur lends deepened background color to Redbor's productivity, super cold-hardiness and reluctance to bolt. A heavenly combination. OT-certified. * ① **BACK!**

A=2g, \$1.80 B=4g, \$3.50 C=14g, \$8.00 D=28g, \$12.00
E=112g, \$40.00

Baltisk Rod Purpurkal (63 days) Open-pollinated. Alas, multiple crop failures this year for this hot item. We expect to have it back in the future.

3459DB Darkibor (65 days) F-1 hybrid. A top-quality Dutch variety with very dark green, triple curled richly textured leaves. Crinkly and very curly. The uniform 18–20" tall plants hold well in the field in all weather conditions and continue to grow. Excellent for successive harvesting, Darkibor has comparable cold hardiness to Winterbor. Contract limits seed to one-time use. ④

A=0.5g, \$2.20 B=1g, \$4.00 C=4g, \$12.00 D=14g, \$40.00
E=28g, \$72.00

Siberian Kale *B. napus* (pabularia group)

3460FO Russian Frills OG (55 days) Open-pollinated. A re-introduction of an almost-lost Oregon variety bred by Tim Peters. The folks at Adaptive Seeds discovered it being maintained by seedsman Peter Bauwens in Belgium. Similar to Red Russian when young, the purple and red-veined leaves get very frilly as they mature while remaining exceptionally tender. The dazzling frills upon frills make this 18–28" kale a great addition to kale bunches or mesclun mixes. With similar hardness to 3464 White Russian, it makes a good tunnel plant. WA-certified. * ①

A=2g, \$1.70 B=4g, \$3.00 C=14g, \$6.50 D=28g, \$10.00
E=112g, \$32.00 K=448g, \$115.00

Red Russian (60 days) Open-pollinated.

Called Buda Kale by Fearing Burr in 1863, Ragged Jack by Vilmorin-Andrieux in 1885, and Communist Kale in 2006 by workers at Darthia Farm in Gouldsboro, ME. Russian traders brought this Siberian heirloom to Canada in the 19th century. It has undergone a rousing revival in recent years. Vigorous edible landscape plant a big hit for its tenderness and delicate flavor. Its oakleaf foliage colors after fall frosts. Use soon after picking, or chill leaves in cold water; otherwise wilts quickly. Red and purple veining changes to dark green when cooked.

Also a popular variety for microgreens. Tolerates outside temperatures of 14" double-covered under Agribon 19. *



3461RC Red Russian ©

A=2g, \$1.00 B=4g, \$1.60 C=14g, \$3.20 D=28g, \$4.50
E=112g, \$9.20 K=448g, \$26.00 L=5lb, \$125.00

3462RO Red Russian OG CCOF-certified. ©

A=2g, \$1.20 B=4g, \$2.20 C=14g, \$4.00 D=28g, \$6.20
E=112g, \$17.00 K=448g, \$51.00 L=5lb, \$245.00

3464WO White Russian OG (60 days) Open-pollinated. A flat-leaf Siberian type, silvery green with white veining. Similar to Red Russian, but a few inches taller, a third more productive, with larger, more serrated leaves. Also, much harder than Red Russian, will hold into November without protection and thrive in an unheated greenhouse, even if temperatures go down to 0°. Gene has harvested White Russian outdoors in Waterville out of the January snow. If season is extended, White Russian will produce new clusters of smaller tender secondary leaves from old axils. As with other Siberian kales, flavor gets sweeter with frost. OT-certified. * Ω ①

A=2g, \$1.60 B=4g, \$3.00 C=14g, \$8.00 D=28g, \$12.00
E=112g, \$35.00 K=448g, \$120.00

Dinosaur Kale *B. o.* (acephala group)

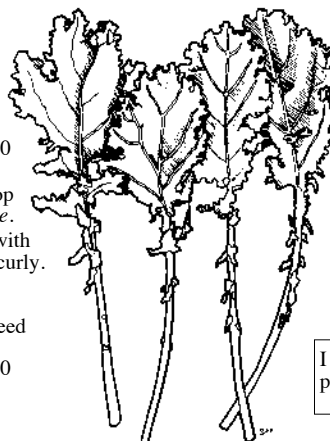
3467CP Nero di Toscana or Lacinato (62 days) Open-pollinated. Also known as Cavolo Palmizio. The "Tuscan Black" was described by Vilmorin-Andrieux in 1885 and traced back to the 18th century by William Woys Weaver who calls it "one of the most beautiful kales to grace any kitchen garden" and suggests interplanting with a vivid green lettuce for a spectacular color combination. Elemental, a striped-down version of kale shaped like a miniature palm tree about 18" high. Very dark green wrinkled strap-like leaves appear almost black at a distance, looking minimalist compared with the lush curly-leaved kales. Its tough leaf strength makes it very sturdy for distributing into CSA boxes. Also used for microgreens. Delicious and nutritious as well as adapted to a wide temperature range, its sweet mild flavor improves after frost. According to Alan LePage, it demands more fertility than other kales. If it is looking anemic after the summer flea beetle invasions, LePage recommends sidedressing it with fertilizer or compost. Using this treatment, he's grown 6' plants! ②

A=2g, \$1.40 B=4g, \$2.60
C=14g, \$5.50 D=28g, \$8.50
E=112g, \$15.00 K=448g, \$52.00

KALE MIX

3469KM Kale Mix (60–65 days) With the surge of interest in kale, this has become our most popular mix, sales exceeding 2,500 packets each of the past three years. If it's hard to pick just one or two kale varieties from so many tempting choices, here's the solution: enjoy the whole medley of diverse colors, patterns and shapes for a mere buck seventy.

A=2g, \$1.70 B=4g, \$3.20
C=14g, \$8.50 D=28g, \$15.00
E=112g, \$52.00



I think it pisses God off if you walk by the color purple in a field somewhere and don't notice it.
—Alice Walker

KOHLRABI *B. o.* (gongylodes group)

~6,000 seeds/oz; 210 seeds/g. Don't like kohlrabi? Try harvesting it young when it tastes like a humble version of the globe artichoke. Its texture turns tough, woody and inedible if you wait too long.

3471KB Kolibri (45 days) F-1 hybrid. The best purple kohlrabi we've found: quick growing, very uniform, purple on the outside, crisp and white on the inside, reliable, good-tasting and productive. An August planting will size up in October. Very hardy; will winter over with only snow cover for protection—in fact made it through the open winter of 2011-12 in Maine. Interplant with **3036** Bright Lights swiss chard for a dazzling display.

Contract limits seed to a one-time use. * ④

A=0.5g, \$2.20 B=1g, \$4.20
C=4g, \$14.00 D=14g, \$48.00
E=28g, \$94.00

3473WN Winner (45 days) F-1 hybrid.

Longtime customer Brian Cramer of Hutchins Farm in Concord, MA, convinced me to grow kohlrabi again for the first time in fifteen years. "Winner," he suggested, "has been my most successful kohlrabi for many years, always beating out others I have tried in consistency, quality and appearance." I grew Winner in 2012 and, in defiance of my shameful neglect, it proved to be everything Cramer said. Direct-seeded in late June into a severe drought, irrigated sparingly, thinned belatedly, it even survived my two-week midsummer absence and nevertheless produced its lovely green stem bulb three weeks ahead of Early White Vienna. Its tender sweet flavor was a revelation. Perhaps you, too, have overlooked this unusual under-rated vegetable, or maybe you were just waiting for us to offer a real Winner? ⑤

A=0.5g, \$1.60 B=1g, \$2.60 C=4g, \$6.60 D=14g, \$18.00
E=28g, \$33.00

3475VW Early White Vienna (58 days) Open-pollinated. Early dwarf heirloom variety with short tops and medium stems. Bulbs have crisp white tender flesh with a pungent taste. Do not overcrowd. From Central Europe before 1860. ②

A=2g, 90¢ B=4g, \$1.60 C=14g, \$3.00 D=28g, \$4.50
E=112g, \$6.00 K=448g, \$18.00

3478GI Gigante (130 days) Open-pollinated. You might guess that these get enormous. And they do, regularly exceeding 10" in diameter and 10 lb. Unlike other kohlrabi, this Czechoslovakian heirloom doesn't get woody even at such a large size. A root cellar staple, Gigante's crisp white mildly tangy flesh will add zest to your meals while you await the first edible greens of spring. Sow in spring for late fall harvest. Leaves sweeten like a tender kale after a few hard frosts in the fall and stems likewise become as delicious as their broccoli counterparts. A favorite of Jason Kafka who plants a 300' bed. ③

A=2g, \$1.10 B=4g, \$2.00 C=14g, \$4.00 D=28g, \$8.00
E=112g, \$16.00 K=448g, \$50.00

RAAB *B. rapa* (ruvo group)

3485QT Quarantina (40 days) Open-pollinated. *Quarantina* means '40 days.' Raab, also known as Rapini here and *Broccolo Asparago* in Italy, is a non-heading version of broccoli with a more pungent flavor. Harvest young stems, leaves and small flower buds. Steam, stir-fry or add to salads. Many people try this as a spring crop with poor results. If the flea beetles don't get you, the summer heat will. Raab is much better as a fall crop. It will hold a lot longer and cool nights improve the flavor. Tender tips of young kale leaves make a better spring crop. ②

A=2g, \$1.10 B=4g, \$2.00 C=14g, \$4.00 D=28g, \$7.00
E=112g, \$16.00 K=448g, \$48.00

GLOBE ARTICHOKE *Cynara scolymus*

~20 seeds/g.

Culture: Artichoke seed needs vernalization to trick it into thinking it has already gone through a season of growth. Start indoors in mid-February at warm temperatures (at least 60°) avoiding direct hot sun or overwatering (misting is preferred). Transfer after 6 weeks to a cold frame when outdoor temperatures stay above 25°. Keep as cool as possible over the next 6 weeks without going below 25°. Set out with IRT plastic mulch (**8811**) and/or row covers (**8814**). Feed heavily and give lots of moisture and space (10 sq ft per plant). **Days to maturity are from date of transplanting, not seeding.**

3608SO Imperial Star OG (120 days) Open-pollinated. Wayne Schrader and Keith Mayberry of California Cooperative Extension made this delicious vegetable accessible to northern gardeners by developing Imperial Star in 1991. "We have had great luck here in NE Washington State Zone 5's cool dry season. We always get at least 6-8 chokes per plant, and have gotten up to 13 each from several plants! They may not get as big as those California artichokes, but are a lot more tender. We eat the stems!" said Dodie Bowser of Fruitland, WA. In more northern zones, most plants will bear 2-4 fruits, producing in the cooler fall weather that they prefer to summer's full heat. Plants (both seedlings and mature) can tolerate light frosts but not hard ones. **PVP. Caution: May not ripen in northernmost areas.** AGRIOR, CCOF-certified. ①③

A=0.5g, \$1.70 B=1g, \$3.20 C=4g, \$8.50 D=28g, \$40.00

CELERY & CELERIAC *Apium graveolens*

0.2 gram packet ~500 seeds; 0.4 gram packet ~1000 seeds. 75,000 seeds per oz. All open-pollinated.

Culture: Tender, must be started indoors in March, 10-12 weeks before setting out. Virginian Pam Dawling suggests that falling apple blossoms are a good phenological sign that transplanting time for these crops has arrived. Young seedlings grow slowly, requiring rich moist soil to survive. Regular rainfall or irrigation is necessary for good growth, flavor and yields. Celery withstands light fall frosts but gets kayoed by serious cold.

Minimum germination temperature 40°, optimal range 59-70°, ideal temperature 68° day, 59° night, needs fluctuating temperatures. Emergence takes 12 days at 59° and 7 days at 68°. Only 40% normal seedlings at 59° compared to 97% at 68°. **Days to maturity are from date of transplanting, not seeding.**

3616AF Afina Cutting Celery (60 days) Sturdy dark green foliage has rich aroma and taste, regenerates quickly after cutting. Imparts the same flavor to stews and soups as conventional celery. Although its culture is the same, it is much harder and easier to grow. Both its thin hollow stems and its leaves can be used fresh or dried. Grows up to 30". Contract limits seed to a one-time use. ④

A=0.2g, \$1.10 B=0.4g, \$2.00 C=1g, \$3.60 D=4g, \$6.00
E=28g, \$18.00

Par-Cel Cutting Celery OG (72 days) Check our website fedcoseeds.com for availability, sizes and prices.

3630RO Redventure OG (84 days) An inspired cross of Giant Red Celery and Ventura by Frank Morton in the early 1990s, now a stabilized cultivar. This marriage of opposites brings out the best of both partners and hides the flaws. Wanting to offer red celery, we trialed heirloom Giant Red but found it tough, stringy and too strong for modern palates. However, when combined with Ventura, the harshness and textural flaws disappeared into a delicious chewy stem with plenty of interior red color. Not as tender as Ventura, but with an enhanced flavor that will really enliven soups, salads and casseroles.

OT-certified. Ω ①
A=0.2g, \$1.80 B=0.4g, \$3.20
C=1g, \$5.20 D=4g, \$10.00
E=28g, \$50.00

3634TO Tango OG (90 days) The dance originated in South America but the celery is from Bejo in Holland. Adam Tomash and June Zellers, who always grow astounding celery, selected Tango as the star of one trial. Impressed with the variety's compact architecture and absence of punky centers, they grew massive dense plants even in close spacing. They say Tango is almost as nice as Ventura with not quite as good disease resistance. Once you taste its smooth tender sweet nearly stringless stalks, you're going to want this dance. Contract limits seed to a one-time use. *Note: Under conditions of fast growth, high temperatures and moisture it may exhibit an harmless condition that mimics a bacterial wilt.* OT-certified. ④

A=0.1g, \$2.90 B=0.2g, \$5.60 C=0.4g, \$8.80 D=2g, \$35.00

Brilliant Celериac (100 days) *A.g. var. rapaceum* Not available this year.

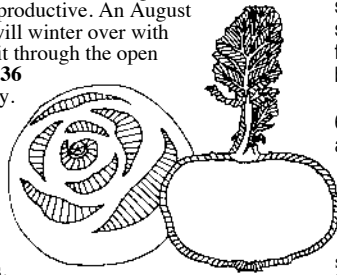
3645DO Diamante Celeriac OG (100 days) *A.g. var. rapaceum* Celериac, the frog prince of root vegetables, likes rain. Despite its ugly exterior, celeriacle has recently been embraced by top-notch chefs and gourmets. A staple in central and eastern Europe, its nutty parsley-celery flavor improved by light fall frosts, enhances meat, fish and poultry. It may be boiled, mashed or braised. Diamante is a classy celeriacle with roots that stand above the ground (for ease of harvest and cleaning) and size up quickly with no hollow crown and very few offshoots. Boasts clean white internal coloration and superb eating quality. Can be stored up to six months in moist sand in the root cellar. An early start indoors is essential for good yields. Last offered by Fedco in 2010. OT-certified. ① **BACK!**

A=0.2g, \$4.20 B=0.4g, \$8.00 C=1g, \$20.00 D=4g, \$75.00
E=12g, \$220.00

3647MR Mars Celeriacle (100 days) *A.g. var. r.* Our web special replacement for Brilliant, Mars is very similar, sporting good-sized uniform white roots with dense interiors beneath sturdy healthy upright plants. Has good holding quality in the field even when roots are large. Robust against septoria, a common problem with celery-family crops. Previously offered on our web site, **NEW!** to the catalog but *this is our last year to carry as this is a Bayer variety. Seed in short supply; order early.* ~2,240 seeds/g. ⑥

A=0.2g, \$4.20

"It keeps getting weirder and weirder out there. Thank goodness for the seed diversity at FEDCO."
—Benjamin Pratt and Logan Perkins, Swanville, ME



EGGPLANT *Solanum melongena*

0.2 gram packet ~48 seeds; 0.4 gram packet ~96 seeds.

Culture: Despite some help from global warming, growing eggplant remains a challenge in the north. We recommend raised beds, row covers (8814, 8817) and plastic (8808) or IRT mulch (8811).

Our selections are the most reliable producers we've found, yet some seasons even our skilled trialers get only sparse production of ripe fruits.

Minimum germination temperature is 60°, optimal range 75–90°, optimal temperature 85°.

Some varieties require fluctuating day and night temperatures. Emergence is 13 days at 68°, 8 days at 77° and only 5 days at 86°. Only 21% normal seedlings at 68°, compared to 60% normal at 86°. **Days to maturity are from date of transplanting, not seeding.**

Pests: See sidebar below for information.

Disease: V = Verticillium

3666SW Swallow (51 days) F-1 hybrid. The one eggplant to grow if you live in a cold part of the world. For *early* production of glossy purple-black tender fruit of the elongated (1½x7") Asian type without the bitterness often associated with larger eggplants. "Incredibly, my Swallow eggplants have produced here at 60° N. latitude. They are in a cold frame on the south side of a greenhouse and have scrap foam under the soil/compost mix...I've had many delicious eggplant dishes—well worth the extra climate modifications," reports Sally Boisvert of Four Winds Farm, Haines, AK. ⑤

A=0.2g, \$2.20 B=0.4g, \$3.80
C=1g, \$8.00 D=4g, \$26.00
E=28g, \$120.00

3673PL Pingtung Long (58 days) F-1 hybrid. Long Chinese eggplant named for a town in Taiwan. Great for cooks who prefer to work with uniform slices. Vigorous stress-tolerant plants start producing early for a decent overall yield. Its light purple color is especially attractive if it is harvested before full maturity. As it approaches its full 11", its skin darkens but retains a pleasing sheen. Its sweetness will keep you coming back for more. ③

A=0.2g, \$1.20

3677GA Galine (72 days) F-1 hybrid.

A classic early bell-shaped Italian-style eggplant that sets fruit and produces early and dependably in the North. Adam Tomash and June Zellers rated it the earliest in their trials, and almost on a par with **3691 Rosa Bianca**, their favorite, for flavor. "Mild with a pudding-like texture when cooked," they report. Plus it had larger fruit, averaging about 1 lb each, and was less fussy than Rosa. ⑤

A=0.2g, \$2.30 B=0.4g, \$4.20 C=1g, \$7.00 D=4g, \$20.00
E=28g, \$125.00

3680AO Applegreen OG (74 days) Open-pollinated. Developed in 1964 for short-season areas by legendary University of New Hampshire plant breeder Elwyn Meader. Chinese Red (*S. integrifolium*) is in the parentage. This rounded 6x4½" light apple-green eggplant is fairly early and productive, though was slow to ripen in the wet 2013 season. Fruits average 8 oz. Our tasters rated it the "sweetest green variety" and noted its nice texture and good flesh-skin ratio. Non-bitter, tender and flavorful mild white flesh. BSO-certified. ①

A=0.2g, \$1.80 B=0.4g, \$3.20 C=1g, \$7.00 D=4g, \$16.00
E=28g, \$90.00

3681LG Lucky Green (75 days) F-1 hybrid. Our tasters loved these skinny elongated slightly curved kelly-green fruits. One extolled "sweet flavor, good texture, good skin not too thick in the mouth." Another praised its sweetness and lack of bitterness. Our trialer said they had the best texture of any in her trial, a pleasing chewy skin with an engaging sweetness. Fruits, averaging 200g began ripening in Zone 4 Hartland, ME, on Sept. 1 and were still coming on Oct. 16 even though seedlings weren't transplanted till June 25. Each semi-tall spreading plant yielded 2–3 and became especially decorative when its purple blossoms commingled with its colorful fruits. Getting Lucky just got easier. On sale because we're overstocked. ③

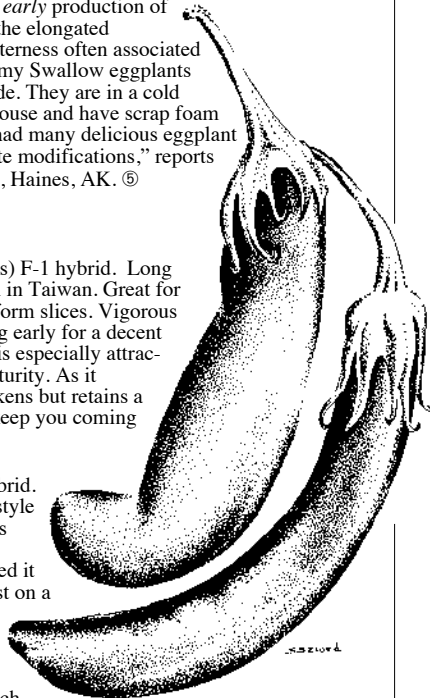
A=0.2g, \$1.00 B=0.4g, \$1.40 C=1g, \$1.80 D=4g, \$3.00
E=28g, \$13.00

Pest: Colorado Potato Beetle

Cultural controls: Rotation; control solanaceous weeds like horse nettle; rapid flaming; suction devices; hand-picking if beetle pressure is low; mulch before adults arrive.

Materials: Surround (8652), Spinosad (8685), Pyrethrin (8688)

More about CPB in the Moose Tubers section, p. 119.



3682PW Pure White (75 days) F-1 hybrid.

Asian eggplant features beautiful elongated cylindrical curved 12x1½" off-white fruits that go a long way. The most productive variety in our 2013 trial averaged 4 per plant, with significant ripening around Sept. 4 and 70% maturity before frost. Our trialers noted its "creamy nice texture," "good mild flavor," with "slight non-bitter aftertaste," "moderately chewy skin" and sweetness.

One observed that its sharper-than-expected flavor sweetens when fried. ③

A=0.2g, \$1.20 B=0.4g, \$2.00 C=1g, \$3.00 D=4g, \$5.80
E=28g, \$22.00

3684DO Diamond OG (78 days) Open-pollinated. Kent Whealy brought this elongated slightly tapered dark purple eggplant back from Ukraine in 1993. 2' plants set 2½x7" slender 12 oz fruits in clusters. Firm flesh has good texture and entirely lacks that bitter eggplant taste. Because of its mild flavor and good cold-climate adaptation, Diamond is growing in popularity. Our trialer in Maine had an avg yield of 4 lb per plant. CO-certified. ①

A=0.2g, \$1.60 B=0.4g, \$2.50 C=1g, \$4.00 D=4g, \$7.50
E=28g, \$40.00

3685BK Black King (79 days)

F-1 hybrid. A fine hybrid eggplant from Takii in Japan good for the main crop. A vigorous grower and high yielder suitable for both greenhouse and open-field cultivation. Shiny bulging 7" oval fruits outperformed Diamond in Adam Tomash and June Zellers' trial. Their two King plants produced 11 ripe fruit averaging 0.9 lb. Resistant to excess heat. One grower found it susceptible to V. ⑤

A=0.2g, \$1.80 B=0.4g, \$3.20 C=1g, \$4.50 D=4g, \$15.50
E=28g, \$58.00

3688RO Rosita OG (84 days) Open-pollinated. Rosita is productive and tasty without a hint of bitterness. These pear-shaped pink-lavender fruits with white shoulders are 6–8" long and 4–6" wide and will stand up in any Solanum beauty contest. Heirloom Rosita, brought to the States from Puerto Rico in 1979, has gained a steady following. Enjoy its sweet delicious tender white flesh. QCS-certified. ①

A=0.2g, \$1.80 B=0.4g, \$3.20 C=1g, \$4.50 D=4g, \$15.00
E=28g, \$55.00

3691BO Rosa Bianca OG (88 days) Open-pollinated bicolor Italian heirloom. Alan LePage calls it "the best eggplant in the universe," with a creamy consistency and delicate flavor. "Head and shoulders above the rest," adds Tomash, "like eggplant pudding." "A plump beauty that likes the Michigan climate," chimes in Anne Elder. Gorgeous fruits, white with lavender streaking down the side, about 3–4" across and 5" long, narrow at the top and widening with indentations almost like folds in draped fabric. Fruits average 2 lb, max out at 4 lb, LePage's highest-yielding eggplant. Rosa needs to be coddled, particularly in the northern half of New England. Seed needs alternating temperatures to break dormancy: warm days (preferably 80s), cooler nights (around 70°). CCOF-certified. ③

A=0.2g, \$1.50 B=0.4g, \$2.50 C=1g, \$3.90 D=4g, \$6.60
E=28g, \$26.00

Purple does something strange to me.
—Charles Bukowski



OKRA *Abelmoschus esculentus*

2 gram packet contains about ~30 seeds. A staple down South, little known in Maine, but in demand in immigrant neighborhoods



in Portland and Lewiston. High in vitamin C, B vitamins, and rich in soluble fibers.

Culture: State legislator Craig Hickman of Annabessacook Farm in Winthrop, who grows 400 plants per year, says okra requires TLC, balanced nutritious soil with good pH, and not much competition from weeds. According to one of his veteran fieldhands, "Okra is a diva...that needs hot weather for about 60 days." It may be direct seeded or started indoors in peat pots and transplanted in 4-5 weeks, after all danger of frost has passed. Transplant 1' apart; do not disturb roots. Once it flowers, the fleshy pods will be ready for harvest in two days. They are best when picked young and tender, no longer than 4". Longer pods are really fibrous.

Minimum germination temperature 60°, optimal range 70-90°, optimal temperature 80°. Emergence is 13 days at 77° and only 7 days at 86°, but highest proportion of normal seedlings (92%) is at 77°, falling off at higher temperatures. **Days to maturity are from date of transplanting, not seeding.**

3695JO Cajun Jewel OG (65 days) Open-pollinated. A bayou favorite since the 1950s, Cajun Jewel adapts well to our cooler climate and produces almost as much as hybrid Cajun Delight. Dwarf spineless 3-4' plants yield relatively early 1x7" pods with good flavor. Southern Exposure Seed Exchange introduced this Jewel to commerce in 1989. QCS, BSO-certified. ①

A=2g, \$1.30 B=4g, \$2.50 C=28g, \$8.00 D=112g, \$23.00
E=448g, \$85.00

3697GO Red Burgundy OG (75 days) Open-pollinated. This dual-purpose cultivar is a stunning ornamental as well as a culinary delight. Although most productive in the south, Red Burgundy is hardy enough to generate at least a few pods here. Slender pods will grow 6-7" but are best harvested at 4" for optimal texture and flavor. Our trialer Relentless says they "taste as good as any green okra." Later and not as productive here as Cajun Jewel, but an absolute stunner with its green leaves and burgundy ribs, stems and pods. Bred by Leon Robbins at Clemson University. CCOF-certified. ③

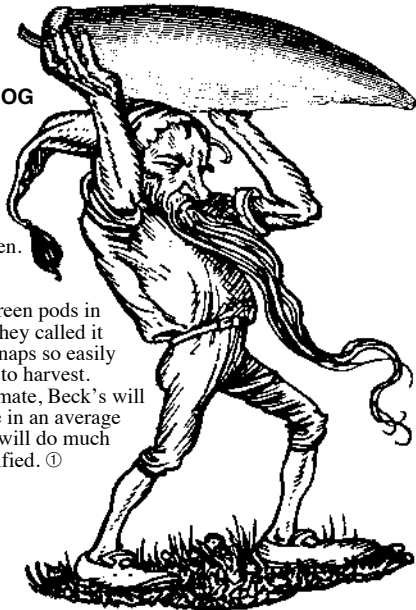
A=2g, \$1.00
B=4g, \$1.80
C=28g, \$3.80
D=112g, \$12.00

3699BO Beck's Big Buck OG

(85 days) Open-pollinated. When Malcolm and Delphine Beck bought their farm in 1968 in Comal County, TX, they found in the abandoned garden giant okra stalks with the fattest pods they'd ever seen. They saved and replanted the seed, and it grew big fluted

remarkably tender delicious green pods in abundance on sturdy plants. They called it the snapping okra because it snaps so easily off the plants when it is ready to harvest. Though not adapted to our climate, Beck's will produce even in central Maine in an average growing season. Of course, it will do much better farther south. BSO-certified. ①

A=2g, \$1.30
B=4g, \$2.50
C=28g, \$8.00
D=112g, \$28.00



Supplier Codes Know where your seed comes from! See page 4 for details.

- ① Small seed farmers including Fedco staff.
- ② Family-owned companies or cooperatives, domestic and foreign.
- ③ Domestic and foreign corporations not part of a larger conglomerate.
- ④ Multinationals not to our knowledge engaged in genetic engineering.
- ⑤ Multinationals who are engaged in genetic engineering.
- ⑥ Manufacturers of neonicotinoids: Bayer and Syngenta.

In 2010, the European Union began requiring a warning label on foods containing artificial coloring, stating that "consumption may have an adverse effect on activity and attention in children." Many companies now produce a version of their products with natural colorings for the European market, while continuing to produce American versions with artificial colors. For example, Kellogg's produces cereal bars where Red No. 40, Yellow No. 6, and Blue No. 1 are replaced with beet root, annatto and paprika extract. Nestlé Smarties (similar to M&M's) are marketed in Europe and Canada with food colorings including safflower, radish, black carrot, lemon, hibiscus, red cabbage and spirulina.

PEPPERS *Capsicum annuum*

Avg. 140-160g, with a range from 100-200g. Hybrid pepper seed is expensive so A-size packets are modest. **0.1g packets contain 10-20 seeds.** We pack by weight and not by seed count so there will be variation.

Capsicum comes from the Greek *kapto* which means 'bite.'

Seed-saving tips: Use only the first fruits for seed: allow only 3-4 fruits per plant to grow and remove all others. Fewer fruits = larger seeds = greater seed viability. Later fruits often have germination rates of only 60%.

Culture: Very tender, will not tolerate frost, dislike wind, will not set fruit in cold or extremely hot temperatures or in drought conditions. Many had blossoms drop this past August because of heat and drought. Start indoors in March or April. Set out in June. Black plastic highly recommended. Row cover improves fruit set in windy spots. Pick first green peppers when they reach full size to increase total yield significantly. Green peppers, though edible, are not ripe. Peppers ripen to red, yellow, orange, etc. In Zone 4, I could get only Ace to ripen on the plant. In Zone 5 Peacework and Revolution join my red pepper parade.

Minimum germination soil temperature 60°, optimal range 68-95°, optimal temperature 80°. Emergence is 13 days at 68°, only 8 days at 77° or 86°. 70% normal seedlings at 59° increases to 98% at 77°. **For all peppers, days to full-color maturity are from transplanting date.**

Diseases:

BLS Bacterial Leaf Spot
CMV Cucumber Mosaic Virus
TMV Tobacco Mosaic Virus

SWEET PEPPERS**Sweet Bells**

3701AC New Ace (60 days) F-1

hybrid. A cinch to grow in the North. Though I am by no means a pepper pro, I counted 54 full-size and 12 baby peppers on my 11 plants on Sept. 8, 2014, illustrating its potential in a good pepper year.

Resists blossom drop even in adverse weather so that almost every flower produces. Fruits thin-walled, not blocky, turn red early, good for the home garden. New Ace is an improvement on the old strain, producing fewer misshapen pointy peppers, but still not a majority of classic blocky 4-lobed commercial peppers. Janine Welsby responds, "Don't damn them with faint praise! Still the only pepper that consistently ripens gorgeous red bells for us. Maybe they are kind of misshapen but the taste makes up for it." ⑤

A=0.2g, \$1.80 B=0.4g, \$3.40 C=1g, \$6.20 D=2g, \$11.00
E=4g, \$20.00 K=14g, \$62.00

3704PO Peacework OG (65 days) Open-pollinated. An exciting early red bell pepper bred by Molly Jahn and George Moriarty with King of the North and Early Red Sweet in its parentage. Each small plant in our observation plot vine-ripened about 6 medium-thick-walled peppers with good flavor and full-bodied sweetness. A product of farmer-breeder collaboration starring CSA-grower Elizabeth Henderson and her team at Peacework Farm in cooperation with the Organic Seed Partnership, the California Pepper Commission and university breeders, Peacework is a stabilized open-pollinated variety. Seed from this variety is sold under license and a portion of the proceeds go to support public vegetable breeding at Cornell University. The license restricts seed freedoms 2 and 4. This improved production has better leaf cover than in the past and looked gorgeous in the field. ② 2008. WA-certified. ①

A=0.2g, \$1.50 B=0.4g, \$2.50 C=1g, \$4.50 D=2g, \$8.00
E=4g, \$15.00

3706GO Gilboa OG (66 days) F-1 hybrid. Our favorite blocky orange bell pepper. Gilboa is loaded with thick-walled crunchy squat bells, as many as a dozen per plant, with an engaging fruity flavor. Donna Dyrek started harvesting ripe ones as early as mid-August. Early, and organic, too. We've increased the A size packet. Bag tag limits seed to a one-time use. AGRIOR-certified. ③

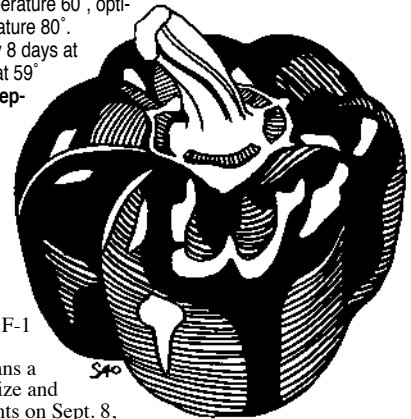
A=0.2g, \$1.90 B=0.4g, \$2.80 C=0.8g, \$3.80 D=1.6g, \$5.50
E=3.2g, \$9.80 K=8g, \$22.00

3710LB Lady Bell (68 days) F-1 hybrid. An early elongated bell with 3-4 lobes that we chose as a replacement for North Star. Fruits ripen from rich green to attractive bright red. A good producer of 3x5" bells, juicy and sweet with a hint of spiciness. Even in cool conditions, each plant sets 3-8 fruits. Developed by Harris. ⑤

A=0.1g, \$2.20 B=0.2g, \$3.80 C=0.4g, \$6.00 D=1g, \$12.50
E=2g, \$22.00 K=8g, \$62.00

3713NO King of the North OG (70 days) Open-pollinated. Back in the late '80s when Seed Savers Exchange co-founder Kent Whealy keynoted at the Common Ground Fair we asked him to suggest a pepper that would ripen in the North. His suggestion was King and it has been our most popular open-pollinated bell ever since. A good choice if you want early marketable blocky peppers. Prone to blossom-drop in heat. CO, OT-certified. ①

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.60
D=2g, \$5.60 E=4g, \$10.00



3716RV Revolution (72 days) F-1 hybrid. Those of us who still “feel the Bern” now know that the political revolution is going to take a lot longer to mature than the pepper Revolution. Not at all hot, this fancy quality sweet bell pepper allows me to have a red September and Donna, a zone farther north, a red October. Juicy and delicious, it boasts the stoutest square walls imaginable. Superb yields of “nice hefty thick-walled fruits,” says Kafka, some in excess of 1 lb. Elaine Carlson relates, “I finally had success growing good sweet peppers 12–14 oz each thanks to Kafka’s recommendation. No more thin-walled peppers for me.” Expensive seed; A-size packets average 9–11 seeds. Resists BLS, tolerant to CMV. Ⓞ

A=0.1g, \$2.80 B=0.2g, \$5.20 C=0.4g, \$9.00 D=1g, \$20.00
E=2g, \$38.00 K=8g, \$140.00

3718GS Golden Star (72 days) F-1 hybrid. With its large 4-lobed 4” glossy thick-walled blocky yellow peppers, this Star filled a gap in our selection admirably, a prolific colored Cal Wonder–type adapted to the North, even though bred in Israel. On Sept. 26 one plant sported 7 fruits, and another, 10. Our trialer describes them as “nice, sweet and crispy.” Plants boast generous leaf canopies. Ripened in Zone 4 Hartland, ME, around the first of September. We’ve increased the packet size. Ⓞ

A=0.2g, \$1.90

3723PO Purple Beauty OG (74 days) Open-pollinated. Tom Vigue asserts that this Beauty “germinates with more vigor than any other pepper” and produces a good yield of blocky 3x3” fruits that ripen from purple to green to deep red as they mature. Aply named, the fruits are incredibly striking in their purple phase. “Year after year it has great flavor and great beauty in all stages,” affirms Vigue. Purple peppers reveal green interiors when sliced, and turn green in their entirety when cooked. Trialers noted that this organic production was loaded with peppers while the plants from conventionally grown seed were not. Grows 18–20”. CCOF, ID-certified. Ⓢ Ⓞ

A=0.5g, \$1.40 B=1g, \$2.50 C=2g, \$3.80
D=4g, \$6.00 E=28g, \$25.00

3725SO Staddon’s Select OG (74 days) Open-pollinated. Worthy of consideration except in the very cold climates where it is poorly adapted. This good large blocky market-type pepper makes early production of good-sized glossy dark green 3–4 lobed peppers on tall bushy plants, even in adverse conditions. WA-certified. Ⓢ

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.80 D=2g, \$6.00
E=4g, \$10.00

3729FB Flavorburst (75 days) F-1 hybrid. Citrus flavor comes to the world of sweet peppers! A Burpee taste-test winner, the 4–6” blocky bells bring the color of Granny Smith apples and ripen to a lovely shade of goldenrod. Thick-walled, crisp and juicy, the expected peppery bite overlaid with a zesty surge of lemon. Great appetizers, salad enhancers or stuffers. Tends to wedge its fruits into the stems of the plants making it hard to harvest quickly without damaging the plant. Contract limits seed to a one-time use. Ⓞ

A=0.1g, \$2.50 B=0.2g, \$4.50 C=0.4g, \$7.80 D=1g, \$17.50
E=2g, \$32.00 K=8g, \$100.00

3735CO Chocolate OG (80 days) Open-pollinated. Our warehouse crew is indiscriminate and voracious when it comes to chocolate. But our trial evaluators were much more circumspect, rejecting various strains of chocolate peppers as far too unproductive until we found this Chocolate. Our seed grower reports every plant has at least a dozen fruits, some 20 or 30, so that sometimes plants fall over! Three-lobed 5x2” elongated tapered fruits turn from green to glossy brown. Once ripe, the thick-walled flesh (burgundy-red inside, chocolate outside) has the taste we sought for so long. OT, VT-certified. Ⓢ

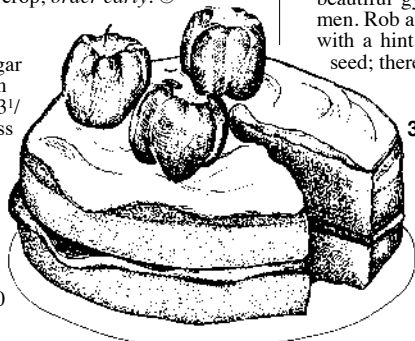
A=0.2g, \$1.80 B=0.4g, \$3.30 C=1g, \$6.00 D=2g, \$10.00
E=4g, \$18.00

3736MM Mega Marconi (90 days) Open-pollinated. Doug Jones has had another breeding breakthrough as he further de-hybridizes Seminis’ Giant Marconi into a more compact habit while retaining the heavy early fruit set of 2 1/2x8” tender-skinned Italian-style Lamuyo peppers. Although selected for North Carolina conditions, it produced nearly a dozen fruits per plant in our trials, grown in an open field in central Maine without black plastic. 35% of them ripened red on the plants and those were the sweetest of the strains we tried, with good texture and juiciness. They had good pepper flavor when green and were especially tasty when ripe. Short crop; order early. Ⓢ

A=0.2g, \$2.20 B=0.4g, \$4.00

3737CC Chocolate Cake (90 days) Open-pollinated. In these times of gluten, dairy and sugar avoidance, here’s a Chocolate Cake everyone can enjoy. In taste tests this rich reddish brown 3 1/2x3 1/2” blocky thick-walled pepper had great sweetness and flavor. Best of all, if you can’t wait for them all to ripen, you’ll find that as a green pepper Chocolate Cake is as meaty, sweet, delicious and flavorful as many other types of fully ripe peppers. That breeder Doug Jones continues to select this pepper for earliness, yield and flavor is just icing on the cake. Ⓢ **NEW!**

A=0.2g, \$2.20 B=0.4g, \$4.00 C=1g, \$7.50
D=2g, \$13.00 E=4g, \$24.00



Cheeses & Pimientos

3738KO Klari Baby Cheese OG (65 days) Open-pollinated. Also known as Golden Delicious Apple Pepper. From Hungary, a Fedco introduction to the U.S. Wini Noyes says a good choice “for the pepper-challenged” to grow. Cheese peppers are flattened and filled with a soft sweet mild core. Shaped like 3” Rouge Vif d’Étampes pumpkins, the squat thick-walled 4 oz fruits were unlike anything we’d ever tried. I am not a pepper aficionado, but I couldn’t stop eating these delicious summertime treats out of hand. Traditionally they are pickled whole after ripening from white to yellow to red. Named after the woman who has maintained this heirloom seed stock.

Ⓢ 1997. Ecocert-certified. Ⓢ

A=0.5g, \$2.00 B=1g, \$3.60 C=2g, \$6.00 D=4g, \$10.00
E=28g, \$44.00

3740SO Sweet Pimiento OG (80 days) Open-pollinated. We selected Sweet Pimiento as a close substitute in a year when we could not get seed for **3741 Amish Pimiento**. Later, in our lot grow

out, we found it matured significantly earlier and deserved its own spot in the catalog. Perhaps the provenance of this seed grown in the North Carolina mountains boosts its cold-climate adaptation. Early and productive with an enjoyable rich fruity taste. I harvested several of these red pimientos in a difficult season. More skilled growers report 15–20 peppers per plant. Early and prolific even in bad years. MOFGA-certified. Ⓢ

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$4.00 D=2g, \$6.20
E=4g, \$11.00

3741PO Amish Pimiento OG (85 days) Open-pollinated. Pimientos are the sweetest of all peppers—my favorites for eating out of hand. The problem with growing seed for Amish Pimiento is that you have to restrain yourself from eating the seed crop. Blame it on the rich sweet fruity taste of these 2x4” squat ribbed fleshy red fruits, productive and fairly early, thick-walled and crunchy. Seed in short supply; order early. BSO-certified. Ⓢ

A=0.2g, \$1.80

3744TO Tangerine Pimiento OG (85 days) In the words of one customer, these beautiful pimientos are a joy to harvest, standing out “just like little lights.” Sweet and juicy, great for eating fresh or roasting. Plants are modest in height and bushy, yet capable of ripening more than a dozen small 2–3” round to slightly flattened 3–4 lobed thick-walled squat fruits in a good year. They might have a small body, but they carry a big pizzazz.” opines Anne Elder. Seed in short supply; order early. Last offered in 2014. MOFGA-certified. Ⓢ **BACK!**

A=0.2g, \$2.20 B=0.4g, \$4.00

Elongated Picklers, Fryers & Roasters

Superette Sweet Banana (65 days) F-1 hybrid. Dropped by our supplier; no longer available.

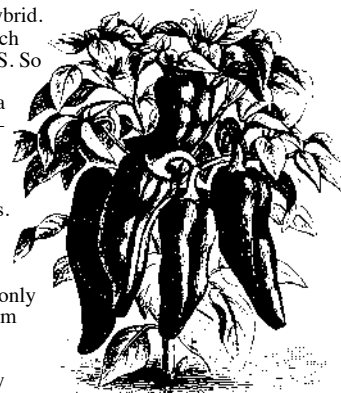
3757CO Carmen OG (70 days) F-1 hybrid.

Johnny’s Carmen debuted in 2006 to much critical acclaim, including a coveted AAS. So good, this pepper may still be as widely grown in 140 years as Bizet’s 1875 opera Carmen is performed now. A classic Italian Corno di Toro type, Carmen features unusually sweet horn-shaped tapered pointed 2 1/2x6” fruits avg 5 oz that won rave reviews from all seven of our tasters. (How often does that happen at Fedco?) Great for salads and roasting, especially as they ripen from green to deep carmine, with good sweet flavor. Walls are only medium-thick, so take care not to get them overly charred when roasting. Upright medium-sized plants with excellent protective canopy. Widely adapted and early maturing in its class. Bizet’s Carmen was a beautiful gypsy with a fiery temper responsible for the downfall of many men. Rob and Janika’s Carmen is equally tempting (“fruity,” “nutty,” “sweet with a hint of spice”) though with much more salutary results. Expensive seed; there are roughly 15 seeds in an A-size packet. MOFGA-certified. Ⓢ

A=0.1g, \$2.80 B=0.2g, \$5.20 C=0.4g, \$9.20
D=1g, \$20.50 E=2g, \$39.00 K=8g, \$135.00

3759BO Boldog Hungarian Spice Paprika OG (71 days) Open-pollinated. The Boldog from Hungary that doesn’t bite but does dry nicely with a hint of spiciness. A prolific bearer of 4–6” long wrinkled tapered pendant fruits. Pick red and grind into sweet paprika, string into decorative ristras or enjoy fresh. Boldog sets enough fruit to accommodate all three uses. The town of Boldog is in a well-known spice-pepper district northeast of Budapest. MOFGA-certified. Ⓢ

A=0.2g, \$1.70 B=0.4g, \$3.20 C=1g, \$5.00
D=2g, \$8.00 E=4g, \$14.00



3762JO Jimmy Nardello's OG (76 days) Open-pollinated. This thin-walled 8" frying pepper has won many converts. The long curved tapering pointed fruits turn deep red with shiny wrinkled skin when ripe. Pleasing sweet mild flavor, good raw, in stir-fries and, especially, fried. According to Nardello family relative Patty Ruprecht of Pownal, ME, "the *only* way to eat them is to string them, dry them, fry them and salt them." Eat them plain or "better still as a sandwich on Italian bread with a slice of provolone." Listed on Slow Food's Ark of Taste. Brought to Connecticut from the village of Ruoti in the Basilicata region of southern Italy in 1887 by Jimmy Nardello's mother. OT-certified. ①

A=0.2g, \$1.80 B=0.4g, \$3.30 C=1g, \$6.00 D=2g, \$10.00
E=4g, \$18.00

3766CU Cubanelle (80 days) Open-pollinated. Our customers asked for this semi-sweet frying pepper. 6x2" waxy yellow-green fruits turn red. Not pungent. "Hands down our biggest fruit producer of all pepper varieties for many years now," reports Anne Elder. ②

A=0.5g, \$1.00 B=1g, \$1.60 C=2g, \$2.60 D=4g, \$4.00
E=28g, \$6.00

3769AC Aconcagua (85 days) Open-pollinated. The highest peak in both the Western and Southern hemispheres, Aconcagua in Argentina stands a lofty 22,841 ft. It is normally ascended by the Northern Route. Though considered technically easy, it has nevertheless claimed its share of casualties.

At Fedco we found the Aconcagua pepper to be a difficult ascent. We tried the northern approach (growing the seed in Maine) but found it required too long a season. Finally, after many attempts, we found a route that worked, a reliable supplier, and are pleased to offer this gigundo frying pepper that is said to originate in Argentina.

Elongated cone-shaped 2 1/2 x 10" fruits tapering to a blunt rounded end can approach 1" in length. Turning from green to yellow to orange to red, the gorgeous fruits are very sweet, crunchy

and fruity, ideal for grilling and frying. The plants reach almost 3', with such a heavy pendant fruit set that they benefit from staking. **NEW!**

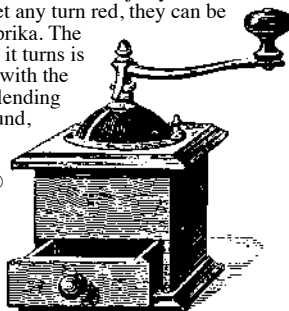
A=0.2g, \$1.30 B=0.4g, \$2.40 C=1g, \$3.80 D=2g, \$6.00
E=4g, \$10.00

3772OM Odessa Market (87 days) Open-pollinated. This heirloom pepper from Odessa on the Black Sea in Ukraine helped Heron connect his plant passion to his heritage. Its attributes translate wonderfully to Maine's Zone 4. Strong stocky stems and unique dark green leaves easily set it apart from most others. It grows rapidly and dependably sets 7-12 fruits per plant, crisp, juicy, thick-walled and tasty. At the edible green stage the 2 1/4 x 4 1/2" tapered peppers have a distinct wild lime color that rapidly morphs to orange and then to a deep dark red. Sweet and full-textured whether enjoyed raw, sauteed or roasted. Broad canopies with good leaf cover reduce sunscald and protect from frost. Fruits are remarkably free from blossom end rot. ①

A=0.2g, \$1.50 B=0.4g, \$2.80 C=1g, \$4.50 D=2g, \$7.20
E=4g, \$14.00

3776FO Feher Ozon OG (90 days) Open-pollinated Hungarian heirloom. My first introduction to this extraordinary pepper was in a jar...dried and ground to a wonderfully sweet paprika. I was intrigued. The field reports didn't even consider this aspect, instead extolling Feher Ozon for incredible productivity: up to 2 dozen 3x4 1/2" pointed light yellow fruits per plant. One trialer fed her entire neighborhood with these sweet, juicy and flavorful peppers. If you let any turn red, they can be dried for a delicious paprika. The beauty of this pepper as it turns is noteworthy. Beginning with the faintest red overtones blending into its yellow background, the red blush grows more pronounced as it matures. ID-certified. ①

A=0.2g, \$1.50
B=0.4g, \$2.70
C=1g, \$4.50
D=2g, \$6.50
E=4g, \$11.00



3999SP Potassium Nitrate (KNO₃) Also known as saltpeter, used to soften the coat of many seeds to expedite germination. Recommended for brassicas, eggplant, peppers, tomatoes, basil, endive, radicchio, and most flower seed. Comes in fine granular form. Dilute 1/2 tsp in 1 qt water. Use as a pre-soak for seed or to water seedling flats. 10g packet contains 2 tsp. *Note: Not allowed for certified-organic use.* ③

A=10g, \$1.30

HOT PEPPERS

Avg. 140-160/g, with a range from 100-200/g. Hybrid pepper seed is expensive so A-size packets are modest. **0.1g packets contain 10-20 seeds.** We pack by weight and not by seed count so there will be variation.

Hot peppers are arranged here from the least to the most hot as measured in Scoville units.

Chiles have been consumed in Mexico for more than 5,000 years. In the U.S. hot peppers have increased dramatically in popularity.

Capsaicin compounds cause most of the heat in peppers. Warm nighttime temperatures stimulate maximum development of capsaicins and increase pungency levels. Pungency is expressed in Scoville units, after Wilbur Scoville, an Englishman who devised the method used for eighty years to measure the heat in peppers.

Some Scoville ratings for general categories are: sweet bell, Banana and Pimiento peppers 0, Ancho & Poblano 1-2k, Anaheim 0.5-2.5k, Bulgarian Carrot 2.5k, Jalapeño 2.5-8k, Chipotle 5-8k, Long thick Cayenne 6-8.5k, Hot Wax 5-9k, Serrano 8-22k, Aji & Cayenne 30-50k, Super Chili 40-50k, Thai 50-100k, Orange Habanero/Scotch Bonnet 150-325k, commercially available pepper spray for self-defense 2-3M, police-grade spray 5.3M, capsaicin 15-16M.

The world's hottest pepper? That would be the Carolina Reaper, bred by Smokin' Ed Currie of Fort Mill, SC, and grown by the PuckerButt Pepper Co. The bumpy oily fire engine-red fruits rate 1,569,300 Scoville Units.

If you overdose on hot peppers, milk is almost twice as effective as water in banking the flames, and bread, rice or tortillas are even better. Handle hot peppers with caution; capsaicin is highly alkaloid and can burn skin.

3804BD Beaver Dam (80 days) Open-pollinated. Early for its size and a heavy producer in normal years, sets several pendulous shiny horn-shaped 6" red-orange fruits per plant, 3" wide at the shoulders, tapering to a blunt point. Both sweet and with heat. Most of its mild spice is in its ribs so you can excise those if you wish. Or leave them in to enjoy its nice peppery flavor. Heirloom brought to Beaver Dam, WI, in 1912 by the Joe Hussli family. 500-1,000 Scovilles. ②

A=0.2g, \$1.50 B=0.4g, \$2.40 C=1g, \$3.80 D=2g, \$5.00
E=4g, \$9.00

3807AN Anaheim (78 days) Open-pollinated. Also known as California Chile and Chile Verde. Cultivated for canning in a factory near Anaheim around 1900. Anaheim is the pepper typically used for chiles rellenos. 7" long fruits tapering to a point turn from dark green to red at maturity. Pungent, but not particularly hot. 900-2,500 Scovilles. ②

A=0.5g, \$1.00 B=1g, \$1.60 C=2g, \$2.60 D=4g, \$4.00
E=28g, \$7.50

3811TB Tiburon Ancho/Poblano (65 days green, 85 days red ripe) F-1 hybrid. There's no evidence this pepper originated in Tiburon, nor does it have the bite these associations conjure (*Tiburon* is Spanish for shark.) These relatively mild hot peppers, known as Poblano when green and Ancho when dried, are used for roasting, stuffing, making chile powder and sauces, especially the classic *mole*. An extremely productive selection for northern market growers or home gardeners serious about having plenty of peppers for table and processing. Large uniform glossy dark green 3-lobed horn-shaped fruits (3 1/2-5" long x 2 1/2" wide) mature to a deep brick red on sturdy bushy 3' plants that resist lodging and keep the heavy fruit set off the ground. The flesh is thick and mildly hot with that mouth-watering distinctive Poblano flavor, sweet and savory. Won instant popularity with our customers. We have increased all the packet sizes. Bag tag limits seed to a one-time use. 2,000 Scoville units. Resistant to BLS and TMV. ⑤

A=0.3g, \$2.20 B=0.6g, \$4.20
C=1.2g, \$7.00 D=2.4g, \$12.50
E=4.8g, \$22.00 K=14.4g, \$59.00

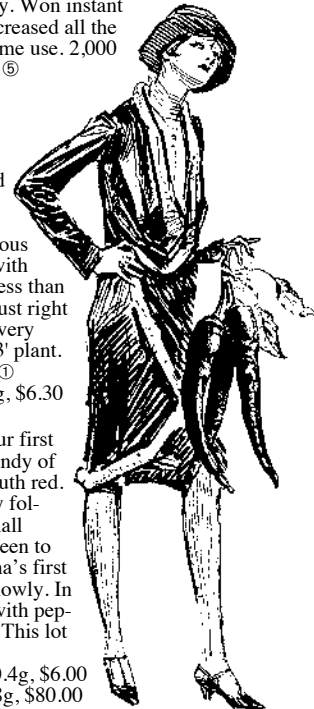
3816BO Czech Black OG (65 days)

Open-pollinated. Fruits so striking that seed grower Roberta Bailey kept a bowl on her table just to admire. Black when immature, the 2 1/2"-long conical peppers ripen to lustrous garnet. Mild juicy thick-walled flesh runs with cherry-red juice when cut. The heat, a tad less than a jalapeño, is in the ribs and seeds and is "just right for many of us," says one customer. Bears very early with about 20 pointed fruits per 2 1/2-3' plant. 2,000-5,000 Scovilles. MOFGA-certified. ①

A=0.2g, \$1.90 B=0.4g, \$3.60 C=1g, \$6.30
D=2g, \$11.00 E=4g, \$18.00

3819FB Fireball (75 days) F-1 hybrid. Our first cherry-type hot pepper, Fireball, like the candy of the same name, turns the inside of your mouth red. Its initial impression of sweetness is swiftly followed by an expression of searing heat. Small strawberry-shaped fruits turn from shiny green to blazed red, mirroring the fire within. Donna's first ripened Sept. 1; additional fruits matured slowly. In mid-October her plants were still covered with peppers. 2,500-5,000 Scovilles. Resists TMV. This lot tested negative both for TMV and BLS. ②

A=0.1g, \$2.00 B=0.2g, \$3.40 C=0.4g, \$6.00
D=1g, \$12.00 E=2g, \$22.00 K=8g, \$80.00

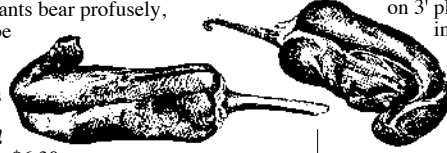


3821CY Long Red Narrow Cayenne (75 days) Open-pollinated. Often curled and twisted, the wrinkled peppers grow 5–6" long, 1/2" across, and taper to a point. Dark green color changes to bright red. Prolific ("produce zillions") and hot. The backbone of Hillary Nelson's red chile pastes. Along with **3866 Matchbox** dries easily on screens; Holli Cederholm blends them in a food processor for crushed red pepper. Pre-1827 heirloom. Pungent; 3,500–5,000 Scovilles. ②

A=0.5g, \$1.00 B=1g, \$1.60 C=2g, \$2.60 D=4g, \$4.00
E=28g, \$7.50

3829HO Chimayo OG (70 days) Open-pollinated. Named for a New Mexico town at the base of the Rockies where these smoky complex richly flavored, but not terribly hot peppers are strung into great dried garlands that grace the dooryards and kitchens of most houses. Blunt-pointed 2–4" fruits ripen to scarlet red in late summer. The 2' plants bear profusely, setting about 20 fruits each. Dries easily to be used all winter for sauces and gravies for tamales, posole and nachos. Thanks to Betsy Bott of Blue Hill, ME, for sharing this pepper with Roberta Bailey, who produced the seed crop. 4,000–6,000 Scovilles. NEW!

A=0.2g, \$1.90 B=0.4g, \$3.60 C=1g, \$6.30
D=2g, \$11.00 E=4g, \$19.00



Betsy Bott's Red Gravy

First make 1 cup chile pulp: Cover 1 dozen dried Chimayo peppers with cold water. Bring to a boil. Simmer until pods are soft, about 1 hour. Press through a sieve or purée in a blender.

Fry a small sliced onion and a chopped garlic clove in 2T oil/lard. Add 1T flour and stir about 1 minute. Add the pulp, 1/2tsp salt and a pinch of oregano. Stir over low heat about 10 min. Add water, if needed, to thin.

3831JO Jaluv An Attitude OG (75 days) Open-pollinated. Earth-passionate breeder Relentless blended at least three kinds of peppers into its pedigree, although it looks like a jalapeño in both shape and size. In the breeder's own words: "If I had to have one chili on a desert island, it used to be a jalapeño. Now maybe not. This new chili is the result of a cross between an open-pollinated jalapeño and (my own) original that was called 45° N Attitude. The object was to have a thicker-skinned 45° with a lot of jalapeño flavor. The 45° N had thin skin, delicious hot fruity flavor, and dried and produced well in northern latitudes. My overriding intent in crossing them was to obtain the best combination of both." Got attitude? 2,500–8,000 Scoville units. MOFGA-certified. ♣2008. ①

A=0.2g, \$1.70 B=0.4g, \$3.20 C=1g, \$6.00 D=2g, \$10.00
E=4g, \$17.00

3834EJ Early Jalapeño (75 days) Open-pollinated. Hot 3x1" sausage-shaped blunt fruits mature early. Characteristic brown netting appears as fruit ripens from dark green to dark red. Packing the seed makes us teary-eyed! From Jalapa in the state of Veracruz, Mexico. 4,000 to 6,500 Scoville units at maturity. ②

A=0.5g, \$1.00 B=1g, \$1.60 C=2g, \$2.60 D=4g, \$4.00
E=28g, \$7.50

3837HH Hungarian Hot Wax (68 days) Open-pollinated. This hot type sets even in cool weather yet loved the hot 2012 summer even in Ohio. Smooth waxy yellow 5 1/2x1 1/2" fruits taper to a point and ripen from yellow to orange to red. Pickle all three colors for a beautiful hot-pepper medley—a staple for winter sandwiches. Nikos' favorite for chiles rellenos. Janine Welsby uses them in batches of her famous pepper butter. Originated 1941 in Hungary. 5,000–10,000 Scovilles. ②

A=0.5g, \$1.00 B=1g, \$1.60 C=2g, \$2.60 D=4g, \$4.00
E=28g, \$7.50

3841DO Hidalgo Serrano OG (75 days) Open-pollinated. Slightly hotter than a jalapeño, its "bright, fruity hot flavor lingers in the front of the mouth and makes your taste buds tingle all over," said one seed producer. Extremely prolific 3–3 1/2' plants yield dozens of light green fruits that ripen to bright scarlet. The 2 1/2–3 x 1 1/2" fruits, as fat as your ring finger but only as long as your pinky, have thin walls, a long seed cavity and classic serrano heat. They are perfect for fresh salsa and pickling or homemade hot sauces. 6,000–17,000 Scovilles. MOFGA-certified. ①

A=0.2g, \$1.90 B=0.4g, \$3.60 C=1g, \$6.50 D=2g, \$11.00
E=4g, \$18.00

3845PO Hot Portugal OG (64 days) Open-pollinated. Bears elongated narrow fruits, 5–8" long, 1" in diameter with the classic wrinkled hip at the stem end. Superb pepper flavor comes through its considerable heat nicely. Not as hot as **3866 Matchbox**, but hotter than Early Jalapeño. Early productive ripener of glossy scarlet fruits borne on tall plants. Most will turn straight from green to red, but 4% off-types will turn from green to yellow to red. Offered by Joseph Harris in 1935. 5,000–30,000 Scoville units. MOFGA-certified. ①

A=0.2g, \$1.90 B=0.4g, \$3.60 C=1g, \$6.50 D=2g, \$11.00
E=4g, \$18.00

Fish OG or conventional (80 days) Open-pollinated. At press time we were uncertain of our supply. Consult our website for availability and prices.

3853BC Bulgarian Carrot Chile (68 days) Open-pollinated. Also known as Shipkas. We first saw this show-stopper at Amy LeBlanc's farm. Colored like a polished fluorescent-orange carrot, the thin-walled 1 1/2–3 1/2" tapered fruits are as hot as they look and make welcome additions to chutneys, marinades and salsas, as well as excellent hot sauces. Also delicious dried and ground. Their fruity undertone nicely complements their heat. Just 18" tall, these plants bear clusters of peppers close to the main stem. Brought indoors, they produced in Amy's greenhouse till February. Heirloom was smuggled here through the Iron Curtain more than 30 years ago. 5,000–30,000 Scovilles. ③

A=0.5g, \$1.50 B=1g, \$2.70 C=2g, \$5.00 D=4g, \$9.00
E=28g, \$36.00

3856HO Ho Chi Minh OG (68 days) Open-pollinated. Peppers 4–5" long on 3' plants grow like large fingers turning from bright yellow to crimson in late August. Longtime Minnesota co-op'er Steven Schwen sent us seeds for this beautiful shining cayenne pepper that he got in the 1980s when the first wave of boat people landed in Minnesota and came to his farm looking for chickens and ducks. He named it Ho Chi Minh in honor of the Vietnamese revolutionary who defeated all the colonialists who invaded his country. Schwen says it has a bite that makes you "run home to your mama!"

We've enjoyed its prolific production (up to two dozen fruit per plant), its heat and good flavor. Now organically grown. 30,000 Scovilles. MOFGA-certified. ♣2007. ①

A=0.2g, \$1.50 B=0.4g, \$2.70 C=1g, \$4.80 D=2g, \$8.00
E=4g, \$15.00

3860TO Thai Hot OG (82 days) Open-pollinated. Anne Elder gets 200 of these little "sweeties" per plant, "cute little compact treasures full of heat." Its small conical peppers ripen to bright red and stand erect above the foliage so fetchingly that it's grown "in the trade" as a red and green Christmas potted plant. However, devotees of hot cuisine prize its sparks. Early pinching will produce a bushy 8" plant that can be pulled, roots and all, and hung to dry for winter use or grown inside for ornamental and edible enjoyment. Thai Hot checks in around 25,000–40,000 Scoville units. MOFGA-certified. On sale this year! ①

A=0.2g, \$1.50 B=0.4g, \$2.40 C=1g, \$4.20 D=2g, \$7.20
E=4g, \$13.00

3866MO Matchbox OG (75 days) Open-pollinated. A product of our inventory manager Roberta Bailey's many years of dedicated breeding work to create an open-pollinated selection of the hybrid Super Chili, whose parents include Hungarian Hot Wax and Hot Banana. The squat plants bear prolific upright fruit, averaging 2" long, 1/3" across and ripening from pale green to deep scarlet. Like Super Chili, they bear well in cold damp weather, hot dry weather, sandy soils and heavy clay. They have plenty of heat and the characteristic finely cut lightweight leaves of many hot peppers. Can be potted and overwintered or brought inside to make a beautiful pepper wreath when frost threatens. 30,000–50,000 Scoville units. MOFGA-certified. ♣2000. Ω ①

A=0.2g, \$1.90 B=0.4g, \$3.60 C=1g, \$6.30 D=2g, \$11.00
E=4g, \$18.00

3870HO Hinkelhatz OG (88 days) Open-pollinated. Not for the chicken-hearted, this rare Pennsylvania Dutch heirloom packs considerable heat. Its name aptly describes the size and shape of its 3/4x1 1/2" pendant peppers that taper to a blunt point and are covered with tiny bumps and wrinkles. Ripening from green to red, the tough skins when cut open emit a fruity redolence and reveal a thick juicy flesh. Rarely eaten raw, the peppers were traditionally used for pickling and making pepper vinegar. Nearly as hot as habaneros, they do not require quite as long a season, nor are they as picky in cool environments. Plus they are compact enough to grow in a pot to bring inside for the winter. Hinkelhatz recently boarded the Slow Food's Ark of Taste. Thank you, Amy LeBlanc, for bringing it to our attention. 125,000 Scovilles. MOFGA-certified. ①

A=0.2g, \$1.90 B=0.4g, \$3.60 C=1g, \$6.30 D=2g, \$11.00
E=4g, \$18.00

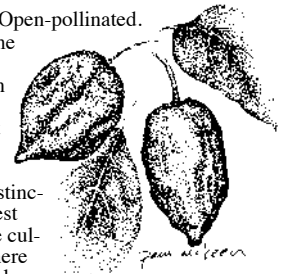
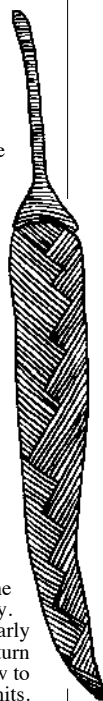
3874HB Habanero (90 days) *C. frutescens* Open-pollinated.

A Scotch Bonnet-type infamous for its extreme heat, fiery Habanero registers a blistering 200,000–325,000 Scoville units, depending on how hot the growing season, 30–80 times as hot as Early Jalapeño! Each 1 1/2' plant will set 10–20 pendulous fruits that turn from dark green to tangerine as they mature. Fruits are somewhat wrinkled from stem to tip. Their distinctive flavor makes them a key ingredient in West Indian jerk sauce. We recommend greenhouse culture for the northern third of our sales area where frequent nighttime temperatures below 70° make outdoor production iffy. ②

A=0.5g, \$1.20 B=1g, \$2.20 C=2g, \$3.60 D=4g, \$5.50
E=28g, \$22.00

3897SH Some Like it Hot Mix (64–90 days) Love hot peppers but lack the space to try separate packets of each? Try our blend of 5–7 different kinds all in one packet. We'll mix colors, shapes and flavors.

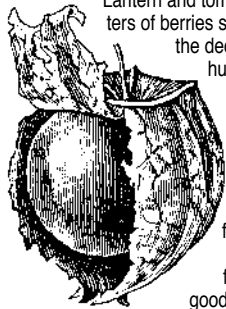
A=0.2g, \$1.80 B=0.4g, \$3.40 C=1g, \$6.00 D=2g, \$10.00
E=4g, \$17.00



PHYSALIS

HUSK or GROUND CHERRIES *P. pruinosa*

1,300-1,400 seeds/g. A treat inside every paper wrapper! Same genus as Chinese Lantern and tomatillo, fruits ripen inside their protective husks. As clusters of berries sweeten, they turn from green to golden yellow, drop off the decorative branching plants, and reach perfection as their husks thin to a near-gossamer papery texture. The sweet berries have an indescribable flavor, great for raw snacks. *Don't eat them green—they can be a powerful emetic.*



Culture: Need filtered light and temperatures at least 75°, preferably closer to 90°, to germinate. Cover seeds with just a light sprinkling of soil and place the flats in the hottest part of the greenhouse, transplanting after last spring frost. Husk cherries tolerate a touch of frost but give up when temperatures dip below 30°. In a good year, about half will ripen in time. Will readily self sow,

although volunteers never mature as quickly as those started indoors.

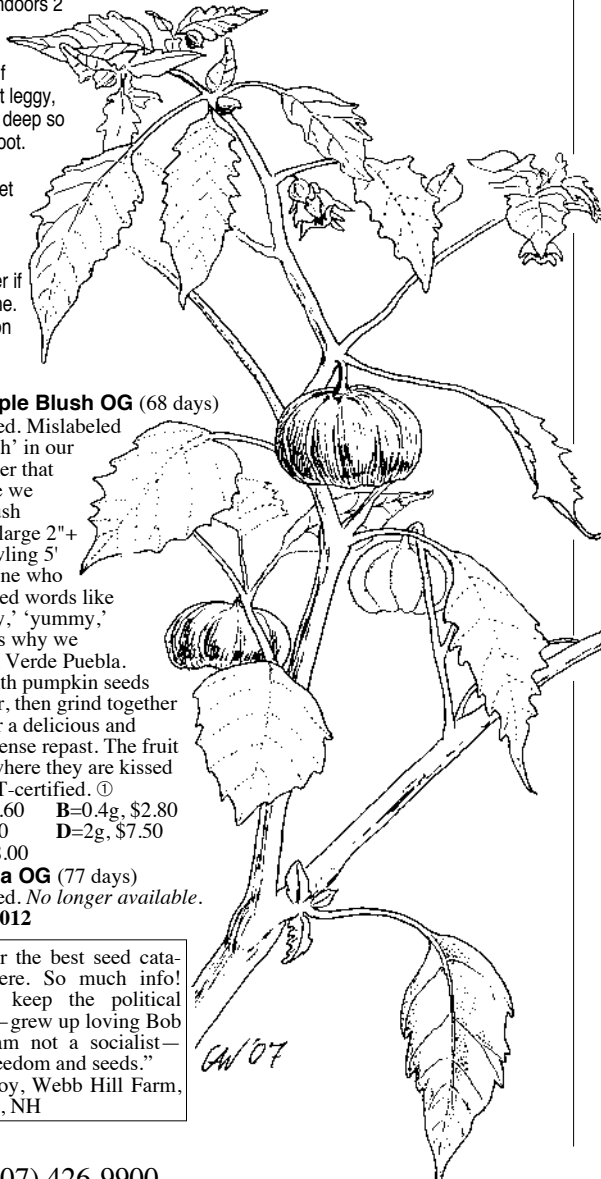
4005MO Aunt Molly's Ground Cherry OG (72 days) Open-pollinated. Slightly shorter with fruits a little smaller than the generic variety but with excellent flavor. Though native to Central America, this heirloom was widely grown in Poland and has been boarded by the Slow Food Ark of Taste. Won over Heron who had previously been indifferent to husk cherries. "Sweet and zesty." Some compare the flavor to pineapple. MOSA-certified. ②

A=0.5g, \$1.90 B=1g, \$3.20 C=2g, \$5.50 D=4g, \$9.00
E=28g, \$40.00

Husk Cherry (77 days) Open-pollinated. *We have dropped this variety. Try 4005.*

TOMATILLO *P. ixocarpa*

Culture: Start indoors 2 weeks after tomatoes lest they get leggy. If seedlings do get leggy, transplant them deep so the stems can root. Some like them pruned, others let them sprawl. Space plants 3' apart for the sprawlers, closer if you plan to prune. Ideal germination temperature 75–85°.



4012BO Purple Blush OG (68 days)

Open-pollinated. Mislabeled as "Purple Lush" in our trials, a moniker that stuck the more we observed its lush production of large 2"+ fruits on sprawling 5' plants. Everyone who tasted them used words like 'sweet,' 'fruity,' 'yummy,' which explains why we switched from Verde Puebla. Roast them with pumpkin seeds and hot pepper, then grind together with spices for a delicious and nutritionally dense repast. The fruit blush purple where they are kissed by the sun. MT-certified. ①

A=0.2g, \$1.60 B=0.4g, \$2.80
C=1g, \$4.40 D=2g, \$7.50
E=10g, \$28.00

Verde Puebla OG (77 days)
Open-pollinated. *No longer available.*
Replaced by **4012**

"Thanks for the best seed catalog out there. So much info! Hope you keep the political comments—grew up loving Bob Dylan—I am not a socialist—just love freedom and seeds."
—Ilene Roy, Webb Hill Farm, Fitzwilliam, NH

TOMATOES *Lycopersicon esculentum*

9,000 seeds per oz. 0.2 gram pkt ~60 seeds; 0.5 gram pkt ~150 seeds.

Good seed retains viability so we often commission two-year productions. Organically and sustainably grown seed was rinsed with a sodium hypochlorite solution to reduce risk of seed-borne disease. This treatment poses no health risks.

Culture: Tender, cannot tolerate frost. Usually started indoors Feb–April. Avoid using fresh manure as it causes lush foliage with few ripe fruits. Instead use generous amounts of well-rotted cow or horse manure or compost to boost plant vigor, and crushed eggshells at the bottom of each hole for calcium. Heavy phosphorus needs. Respond well to foliar sprays.

Determinate (Det.) bush varieties may be staked, should not be pruned.

Indeterminate (Ind.) climbing varieties are customarily staked and pruned. Tomato experts Carolyn Male and Kokopelli's Dominique Guillet both oppose pruning, arguing more abundant foliage provides more photosynthesis.

Minimum germination soil temperature 50°, optimal range 60–85°, ideal temperature 77°. Emergence takes 43 days at 50°, 14 days at 59°, 8 days at 68° and 6 days at 77° and 86°. 98% normal seedlings at 59° but only 83% at 86°. **For all tomatoes, days to maturity are from date of transplanting.**

Diseases:

| | | | |
|-----|------------------------|------|----------------------|
| ASC | Alternaria Stem Canker | N | Nematodes |
| EB | Early Blight | SEPT | Septoria Leaf Spot |
| F | Fusarium | TMV | Tobacco Mosaic Virus |
| GLS | Grey Leaf Spot | V | Vercillium |
| LB | Late Blight | | |

See page 66 and 67 for more information about tomato diseases, particularly Late Blight.

Open-pollinated TOMATOES



4018LO Glacier OG

(56 days) Det. Glacier ripens around the same time as the sub-arctics with about the same size (1–2"), and almost no cosmetic defects except yellow shoulders, but there the comparisons end. Glacier's rich tomato flavor relegates the insipid sub-arctics to the compost pile. It is also superior to the highly touted Siberia tomato, to Stupice, to Early Temptation, to Bloody Butcher, in fact, to every other tomato in the same class that we've tried. Originally from Sweden, 1985. Potato-leaf foliage. MT-certified. ①

A=0.2g, \$1.50 B=0.4g, \$2.60 C=1g, \$4.00 D=2g, \$7.00
E=10g, \$24.00

4025SO Oregon Spring OG (58 days) Det. Recommended as a "hedge" in northern climates for cold summers. When most other varieties fail to ripen in time, Oregon Spring matures good-sized fruit in August, actually performing best during cool summers. Develops more cosmetic defects in the heat and humidity. Bears succulent almost seedless fruits, up to 4" but somewhat variable. Tastes unusually good for such an early variety. Bred and developed from Russian parents by Dr. Baggett and released in 1984. Not suitable for market growers. Resistant to V. ICS-certified. ①

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.90 D=2g, \$6.60
E=10g, \$22.00

Ida Gold (59 days) We have dropped this variety. We recommend **4051** Jaune de Flammé in its stead.

4038CO Cosmonaut Volkov OG (65 days) Ind. "Sturdy, productive, cool-weather tolerant and great flavor," lauds Anne Elder. A superb home-garden variety with good commercial potential both outdoors and in tunnels, Cosmonaut always tastes good, occasionally sublime. Produced the best two tomatoes I've ever eaten, from different gardens in different years. Usually ripens quantities of deep red slightly flattened 8–12 oz globes at the beginning of August when tomato craving is at its peak. Even in cold summers, it will produce dependably by mid-August. What makes Cosmonaut so special is its juice: sweet, rich and full-bodied. Volkov was the Russian explorer who fell through space. From Dnepropetrovsk in Ukraine, brought to America by the Seed Savers Exchange. OT-certified. ①

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.90 D=2g, \$6.60
E=10g, \$22.00

4041BO Pink Berkeley Tie-Dye OG (68 days) Compact Ind. "All these tomatoes that you mention, yes I know them, they're quite lame. I had to rearrange their faces and give them all another name." Here is a tomato variety with a name and appearance we ex-hippies can love. Tie-Dye is not only the best of all the "Boar Series" tomatoes released by talented breeder Bradley Gates of Wild Boar Farms in Napa, CA, but it is also by far the best of all the new tomatoes I've tried. Forget the rest of the Boars (good as many of them are), forget the Artisans™, forget especially the weird-tasting Indigos—Tie-Dye has real flavor. Not only flavor but also amazing early productivity, size, disease tolerance, and is it ever a looker. In a jungle among some 15–20 other varieties, this beefsteak accounted for at least half of my early ripe full-sized tomatoes for the second year in a row. Fruits usually bi-lobed, averaging about 9 oz, the color of port wine with metallic green stripes. They have an engaging tanginess, almost as if lightly salted. The spiciness is just what you might expect from this striped beauty. Seems to hold up well in the field and after picking. A winner both for the marketer and the home gardener. With kudos and apologies to new Nobel Laureate Bob Dylan. MOSA-certified. ② **NEW!**

A=0.2g, \$3.00 B=0.4g, \$5.60 C=1g, \$12.00 D=2g, \$22.00
E=10g, \$40.00

4045PO Garden Peach OG (71 days) Ind. Yellow fruits bluish pink when ripe and have thin fuzzy skins somewhat like peaches, soft-skinned, juicy and very sweet. Light fruity taste is not what you'd expect in a tomato. Burpee in 1893 called it "delicate, melting in the mouth like a grape." For well over a century savvy gardeners have brought Peach's little 2-4 oz fruits indoors before frost to keep for several weeks. Jim Stockwell from North Carolina would not be without it. "Not only are they early and prolific but their unusual flavor and no core sizes make them perfect for grilling without falling apart." Doreen Mundie says also wonderful dried. Amy Goldman places its 1890 origins with plant breeder Elbert S. Carman, owner and editor of *The Rural New-Yorker*. It was introduced as a novelty in Hallock & Son's (of Queens) 1890 catalog. Showed some tolerance to LB in Colrain in 2014. OEFFA-certified. ①

A=0.2g, \$1.50 B=0.4g, \$2.60 C=1g, \$4.00 D=2g, \$6.60
E=10g, \$22.00

4049RO Pruden's Purple OG (72 days) Ind. We continue to dispute whether Pruden's is superior to Brandywine, but, opinions aside, Pruden's is early for its size and makes a great sandwich tomato. We are back to our customary potato-leaved strain that bears irregular pink 1 lb fruit with very few seeds, a silken texture and rich tomato taste, nicely tart with a balanced undertone of sweetness neither insipid nor cloying. Brett Grohsgal praises its flavor, productivity and disease resistance. MOFGA, Ecocert-certified. ①

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.90
D=2g, \$6.60 E=10g, \$22.00

4051JO Jaune de Flammé OG (75 days) Ind. This beloved flame-colored French heirloom is a significant improvement on old Ida Gold. In 2013 it was quick enough to be the only tomato to produce before the late blight epidemic struck one Brattleboro Farmers' Market grower. She is also well pleased with their productivity, flavor and disease resistance and has been selling them by name for the past five years. In my passive-solar greenhouse I don't start tomatoes till early April, so these usually ripen in the first week of September. One, dead ripe on Sept. 4, was my best-tasting tomato of 2016, richly complex, juicy and satisfying with a slight acidic overtone. Though I am a very tough grader, it won a rare 4 out of a possible 5 taste-rating from me. For best flavor, harvest before any incoming rain. The 2 oz round fruits provide just the kind of fresh snacking I love in the field when I get tired and thirsty. They are also great for salads and sauces. This old variety is my new flame in this class of tomatoes. VT-certified. ③ **NEW!**

A=0.2g, \$1.60 B=0.4g, \$2.80 C=1g, \$4.50 D=2g, \$8.00
E=10g, \$28.00

4053PO Black Prince OG (75 days) Ind. Welcomed by our customers after a 13-year absence from our catalog, the Prince of black tomatoes quintupled its sales. In 1997 when we were among the first to offer this émigré from Irkutsk, Siberia, we were way ahead of our time. These iridescent 5-7 oz garnet-colored globe-shaped fruits are among the most uniformly handsome in the tomato kingdom. They have earned a reputation for outstanding flavor similar to that of Black Krim, but without Krim's fragility and tendency to crack. A superior home-garden tomato that is also a reliable heavy-yielding field-to-market choice for growers without high tunnels. Ecocert, VT-certified. ①

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.90 D=2g, \$6.60
E=10g, \$22.00

4054GO Goldie OG (75 days) Ind. Considered synonymous with Dixie Golden Giant. Deep orange beefsteak fruits, frequently bi-lobed, average 16-20 oz. Though reputed to be more than 150 years old, Goldie was introduced commercially in 1977 by Gleckler's Seedsmen. I rate it as the best of all orange tomatoes, delivering its rich flavor with an extraordinary velvety texture. Often Roberta's first large tomato to ripen. Erica Myers-Russo from CT advises, "Don't harvest it until it has a distinct rosy blush" (on the bottom). Very productive. Will catface under cold or excessively wet conditions. Several people who grew our Heirloom Mix said Goldie was their favorite. MOFGA-certified. ①

A=0.2g, \$1.40 B=0.4g, \$2.50
C=1g, \$3.90 D=2g, \$6.60
E=10g, \$22.00

4055TO Rutgers OG (75 days) Ind. Long considered an outstanding slicing, cooking and canning tomato, Rutgers' medium-sized 4-6 oz mostly uniform and unblemished deep oblate fruits with a rich red interior and pleasing texture have that great old-time flavor, delicious and juicy. When Rutgers University "refined" the variety in 1943, they took out some of the vintiness but also some of the flavor. Our taste tests confirmed that the original indeterminate strain is better, so that's the strain we offer of this famous New Jersey tomato. The Campbell's Soup Co. developed it in 1928, a cross between Marglobe and JTD. Resistant to F1, V1, ASC, GLS. OT-certified. ①

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.90
D=2g, \$6.60 E=10g, \$22.00

4056GO Green Zebra OG (77 days) Ind. A most unusual beast in the tomato menagerie, this zebra starts out green with darker green stripes, softening and blushing yellow and apricot when it ripens. It might have remained a mere curiosity but for its delicious sweet rich flavor. Small-medium 4-5 oz fruits are emerald green inside. Perfect exteriors hold up under adverse conditions and don't crack. "The perfect salad tomato," says Anne Elder. Sometimes incorrectly shows up on lists of heirloom tomatoes, but was developed by Tom Wagner of Tater Mater Seeds in 1985 from four heirlooms. Kent Whealy ranks it in his top ten tomatoes. Susceptible to SEPT. Ecocert, CCOF-certified. ①③

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.90 D=2g, \$6.60
E=10g, \$22.00

4059CO Cherokee Purple OG (77 days) Ind. but with relatively short vines. No list of the best-tasting heirloom tomatoes would be complete without Cherokee Purple, an unusual variety from Tennessee said to have originated with the Cherokee Indians. Fruits are globes to slightly oblate, averaging 10-13 oz, with dusky brownish-purple skin, dark green shoulders and brick-red flesh. The real attraction is their rich taste, described as "sweet rich juicy winey," "delicious sweet," and "rich Brandywine flavor" by aficionados maintaining it in the Seed Savers Exchange. Ranks in my top five for flavor. Expect some concentric cracking. Amy LeBlanc suggests the vines should not be pruned because the delicate fruits sunburn easily. Ecocert-certified. ①

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.90
D=2g, \$6.80 E=10g, \$23.00

4060BO Paul Robeson OG (78 days) Ind. This Russian heirloom was named in honor of Paul Robeson (1898-1976) who befriended the Soviet Union. Athlete (15 varsity letters at Rutgers), actor (played Othello in the longest-running Shakespearean production in Broadway history), singer (world famous for his vibrant baritone renditions of Negro spirituals), orator, cultural scholar and linguist (fluent in at least 15 languages), Robeson was an outspoken crusader for racial equality and social justice. Revered by the left, reviled by the right, he was blacklisted during the McCarthy Era and beyond, harassed by the FBI, his passport revoked for eight years, his career stifled. He died broken and almost forgotten, his life a testament to lost opportunities in 20th-century American history. His namesake tomato developed almost a cult following among seed savers. The maroon-brick 6-12 oz oblate often bi-lobed fruits with dark green shoulders come closest in flavor to Black Krim, but claim their own distinctive sweet smoky taste. A sandwich tomato with a tang, an extraordinary tomato for an extraordinary man. Some tendency to split. "Does great on my farm in MS," reports Will Reed of Native Son Farm in Tupelo. OT-certified. ①

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.90
D=2g, \$6.60 E=10g, \$22.00

4061KO Black Krim OG (80 days) Ind. Don't wait too long to harvest this delicate heirloom tomato. At half green and still firm they are already dead ripe and perfectly delicious. If you wait till they are fully purple, you will not be able to get them from garden to table intact (to say nothing of market) and they will disintegrate like a hunk of road-kill. Krims are strikingly iridescent purple on the outside, usually with dark green-black shoulders and noticeable catfacing. Interiors are part black, too, with an unusual juicy yet meaty taste and texture, described as having "...a smoky flavor like a good single malt scotch." Fruits average 12-18 oz. Krim hails from Krymsk on the Black Sea in Russia. We are trialing other blacks to replace it, so *this may be our last year to offer*. OT-certified. ①

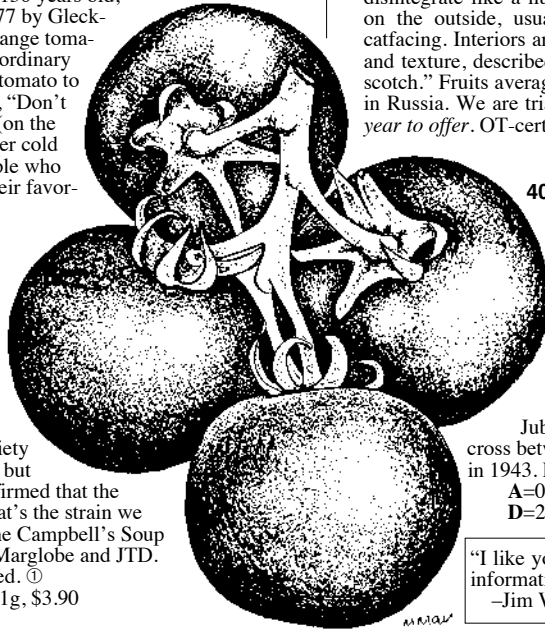
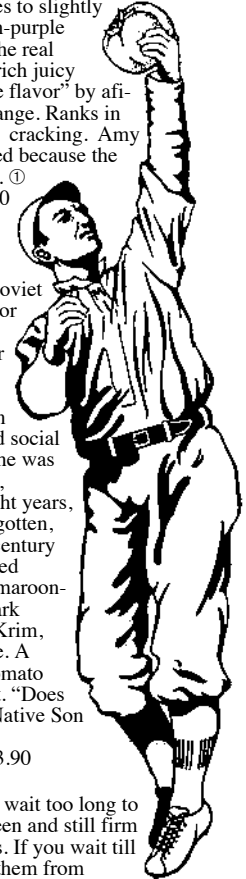
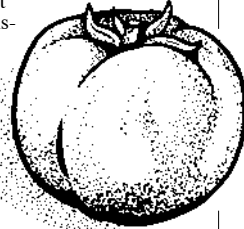
A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.90
D=2g, \$6.60 E=10g, \$22.00

4065JO Jubilee OG (80 days) Ind. Also known as Golden Jubilee. Amy Goldman describes its flavor as "sprightly" and says it was a favorite of Ben Quisenberry of Big Tomato Gardens in Syracuse, OH, who offered it under the name Golden Sunray. The best medium-sized open-pollinated orange tomato, Jubilee ripens smooth-textured sweet mild meaty 8 oz globes. Pruning will produce larger fruits. Nikos discovered Jubilee at a Waldo County Extension taste test at Unity College. She brought one to me and it was superb, almost on a par with Goldie both for texture and flavor.

Jubilee is smaller than Goldie and less prone to blemish. A cross between Tangerine and Rutgers, it won an AAS for Burpee in 1943. Resistant to ASC. MOFGA-certified. ①

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.90
D=2g, \$6.60 E=10g, \$22.00

"I like your prices, selection, your artwork, humour, and helpful information. My favorite catalog."
-Jim Wilmoth, Barlow Vineyards, Fredonia, NY



4067RO Rose de Berne OG (80 days) Ind. This Swiss émigré could be considered the Brandywine of continental Europe. Like Brandywine, it has many strains, and is widely considered in France, Germany and Switzerland to be the best-flavored tomato. Only medium-sized, yet delivers the robust flavor of the bigger types. It bested some formidable competition in my trials—including June Pink, Gulf State Market and the celebrated Eva Purple Ball—with a rich sweetness the others couldn't match. I enjoyed one juicy 5 oz translucent smooth pink fruit after another. No slouch in the appearance department either, the unblemished globes are perfectly round, the soft skins not excessively fragile and the color and size very attractive, making it another excellent field-to-market variety that does not require high tunnels. Some LB tolerance. MOFGA-certified. ①

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.90 D=2g, \$6.60
E=10g, \$22.00

4069GO German Johnson OG (80 days) Ind. An old heirloom probably from Virginia or North Carolina. This large regular-leaf plant, one of the parents of Mortgage Lifter, is known for its copious yields of pink meaty fruits often exceeding 1 lb, mild with more than a touch of sweetness. CCOF-certified. ③

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.90 D=2g, \$6.60
E=10g, \$22.00

Soldacki OG (80 days) Ind. Consult our website for availability.

4075BO Pink Brandywine OG (82 days) Ind. with potato-leaf foliage. Hardly a year passes without advocates claiming another pretender "is better than Brandywine." I dissent. This famous tomato put heirlooms on the map and thick-skinned hybrids on the run. Pink Brandywine was introduced by the illustrious Ben Quisenberry around 1979, and was his favorite. Doris Sudduth Hill's family kept this tomato for more than 100 years and gave Quisenberry his seed. Brandywine can be fussy to grow, has problems with catfacing, EB and sometimes late maturity, but plenty of commercial growers have had success, even in northern New England. Some even report limited LB tolerance. "Bite one, you'll be sold forever," advises Anne Elder. Meaty with just the perfect hint of tartness, the oblate beefsteak fruits average right around a pound, ripening unevenly throughout the season, often preferring cool early fall to peak heat of August. MOFGA-certified. ①

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.90 D=2g, \$6.60
E=10g, \$22.00

4076YO Yellow Brandywine OG (82 days) Ind. with potato-leaf foliage. Growing Yellow Brandywine can be maddening. When she's good, she's very very good, but when she's bad she's awful. All strains (and there are several) develop irregularly-shaped fruits in extreme weather fluctuations. Good appearance correlates closely with good eating quality. Compost the weird-looking fruits; enjoy the good ones! Large slightly ribbed 1 lb fruits with an identifiable ring scar at the blossom end often remarkably smooth, with a creamy texture and rich complex tangy flavor. Not the highest yielding. In the running for best golden tomato, but by no means a shoo-in. CCOF-certified. ②

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.80 D=2g, \$6.60
E=10g, \$22.00

4077NO Pineapple OG (85 days) Ind. Garden author Michelle Owen says, "I roast...these exceptionally sweet red-streaked yellow tomatoes...in a hot oven, then sauté with ridiculous amounts of garlic, rosemary and extra virgin olive oil and throw over pasta. Before I face the firing squad, I will ask for this as my last meal." With its silky smooth texture and complex fruity taste, Pineapple may be the best striped tomato. Typically grows huge fruits in excess of 1 lb that get a little funky cosmetically. Fruits hold tight to stems so bring scissors to your harvest. Cut in half, it looks like the interior of a pineapple except with yellow and red marbling. It doesn't taste like a pineapple, though, nor like a typical red tomato, either. Its unique mild low-acid fruity sweetness needs a fruit name all its own. Originally from Kentucky, but our seed stock came from Martha Gottlieb of Common Ground Fair Exhibition Hall fame. OT-certified. ①

A=0.2g, \$1.50 B=0.4g, \$2.60 C=1g, \$4.00 D=2g, \$6.80
E=10g, \$25.00



4080AO Aunt Ruby's German Green OG (85 days) Ind. "The biggest surprise I've ever experienced in tomatoes," said the late Chuck Wyatt, vintage tomato collector. Until you try it, you won't believe a green tomato could be this good. I rate it second only to Brandywine for flavor and it is on just about everyone's top-ten list. Oblate 12-16 oz fruits bluish lightly yellow and develop an amber-pink tinge on the blossom end when ripe. Don't allow them to get too soft before picking. The green flesh of this beefsteak is faintly marbled with pink. Flavor sweet and tart, rich and spicy. The central large tomatoes are the best. Flavor deteriorates when cold weather sets in. Created a sensation at our staff taste test in September 1996, where it was rated "good" or "excellent" by all who tried it. Aunt Ruby's is not just the best green eating tomato, it also makes a delicious basis for salsa verde. Originally from Ruby Arnold's German immigrant grandfather, introduced in the 1993 Seed Savers Exchange Yearbook by Bill Minkey of Darien, WI. Nominated to Slow Food's Ark of Taste. CCOF-certified. ③

A=0.2g, \$1.50 B=0.4g, \$2.60 C=1g, \$4.00 D=2g, \$6.80
E=10g, \$24.00

4081MO Mark Twain OG (85 days) Ind. Odd that a tomato would be named for the famous writer who professed not to like them. He did write a 1906 story about an unsuccessful 10-hour wild turkey chase in his youth that left him famished and lost in the woods. He rescued himself by finding a garden full of ripe tomatoes. We don't know the history of this obscure heirloom that might be as old as his story. The tomato is rare, but worth preserving on the strength of its deep red interior color and full-bodied flavor. These tomatoes are good-sized and crack free, though soft so they won't take a lot of handling. Twain puts out a lot of ribbed 8-24 oz oblate fruits in September. Though we know of no other commercial sources and of only one seed saver (in Wisconsin) maintaining it, it is one of the best-tasting heirloom beefsteak tomatoes. MOFGA-certified. ①

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.90 D=2g, \$6.60

4083WO Weisnicht's Ukrainian OG (85 days) Compact Ind. with potato-leaf foliage. Thanks to Ryan Voiland of Red Fire Farm in Granby, MA, for helping put this little known but extremely tasty heirloom on the map. In the annual MA commonwealth tomato contest in Boston on Aug. 20, 2015, Voiland won first prize in the heirloom category for his entry of Weisnicht's. A panel of food writers, chefs, produce experts and state officials judged the tomatoes on flavor, firmness/slicing quality, exterior color and shape. Mine in Colrain, though not entered, did pretty well in the size and yield categories as well. We received the original seeds for this scrumptious pink tomato from Scott Weisnicht of Waupun, WI, in 2004 and in my trials that year it received an unusually high 4-4.5 out of 5 taste evaluation, #1 among the 43 varieties I grew that cold wet summer. Nine years later I savored my first fruit in Colrain on Sept. 4, the flavor sweet, rich and complex with delicious acid overtones. The oft-bi-lobed medium-large 8-18 oz fruits are sparse seed bearers. They begin producing in late August or early September with a 3-4 week moderately productive main harvest period. Weisnicht also supplied us with our first seeds for the much-revered rare 984 Pride of Wisconsin melon. Seed in short supply; order early. OT-certified. ①

A=0.2g, \$1.50 B=0.4g, \$2.60

Schimmeig Striped Hollow (85 days) Ind. No Hollow victories this year. Crop failure. Not available in 2017.

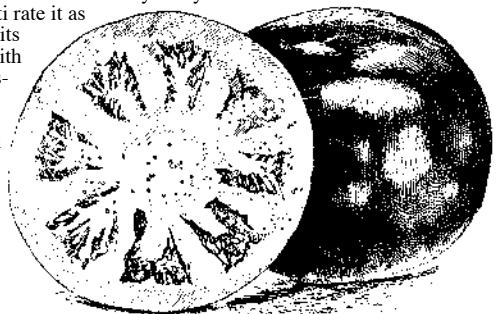
4087TO Tiffen Mennonite OG (86 days) Ind. This heirloom from Mennonites in Wisconsin was first introduced to the Seed Savers Exchange by Thane H. Earle of Whitewater, WI. Tiffen has many similarities to the more famous Brandywine—potato-leaf foliage, pink skin, and rich old-fashioned tomato taste that has twice drawn raves at staff tastings. The large rough oblate beefsteak fruits (avg 13 oz) are a tad bigger and later than Brandywine. For a superb sandwich tomato or a fresh garden snack Tiffen is hard to top. MOFGA-certified. ①③

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.90 D=2g, \$6.60
E=10g, \$22.00

4097RO Ruby Gold OG (90 days) Ind. As aesthetically appealing as it is delicious, Ruby boasts prolific beautiful huge red-streaked yellow fruits with marbled interior flesh, meaty with superb mild sweet flavor, smooth melting texture and not a bit of acidity. Introduced by John Lewis Childs of Floral Park, NY, in 1921. Rediscovered by tomato aficionado Ben Quisenberry in Bob's Market in Mason, WV, in 1967, and reintroduced to commerce some years later. Quisenberry offered it under three different names, first Early Sunrise, later Gold Medal and finally Ruby Gold.

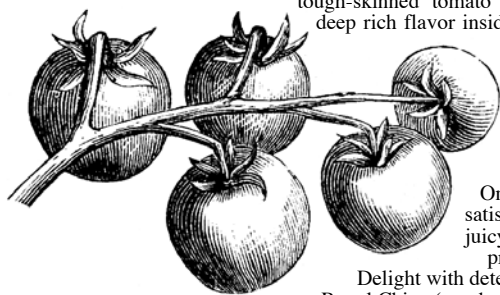
Tomato cognoscenti rate it as one of the best. Fruits slightly flattened with red spot on the blossom end, seldom cosmetically perfect, prone to radial cracking. OT-certified. Seed in short supply; order early. ①

A=0.2g, \$1.40
B=0.4g, \$2.50
C=1g, \$3.90



Open-pollinated CHERRY TOMATOES

4103SO Gardener's Sweetheart OG (62 days) Ind. These Sweethearts, borne on trusses, each with 6–8 bright red miniature heart-shaped fruits with a nipple on the end, came from a chance cross in master seed saver Will Bonsall's greenhouse. They belie one of my great tomato prejudices, that a



tough-skinned tomato can never harbor a deep rich flavor inside. Because they will

keep seemingly forever on the vine, the trick is to wait to harvest until they are deep red—they'll keep getting sweeter and reach full flavor.

Only then are they truly satisfying. This mating of juicy, flavorful but crack-prone **4109 Gardener's**

Delight with determinate paste tomato

Royal Chico (good solids, dry pulpy flesh,

tough skin and indifferent flavor) combines most of Delight's richness with some of Chico's toughness. Firm, hard fruits average 15–16g and don't fall apart or crack under any circumstances. Bring them inside, they will likely keep for weeks. Ideal in shish kabob, they probably would also make a superb tomato sauce if one has the patience. MT-certified. ①

A=0.2g, \$1.70 B=0.4g, \$3.20 C=1g, \$5.20 D=2g, \$9.00

E=10g, \$26.00

Honeydrop ECO (62 days) Rampant Ind. Crop failure; not available in 2017.

MEMBER SPECIAL

Offered first come, first served to Fedco Co-op members only!

See page 89 to join our cooperative.

4107PP Pink Princess Gene Pool ECO (62 days) Rampant Ind. Very short crop so we are sharing it only with members this year. From the originators of Honeydrop comes the even more exciting Pink Princess, a recessive pink-fruited off-type of the Honeydrop. I have never tasted a pink cherry tomato as deliciously sweet. Princess could become a classic. Large and early for a cherry tomato, the fruits, averaging 12.7g, began maturing early in August. The thick skins, somewhat resistant to cracking, detract not one iota from the eating experience. In blind taste tests performed by Tom Vigue, most people have preferred it to **4250 Sun Gold**. Unlike Sun Gold in size, skin thickness, color and in the lack of an acid tang, Princess has a different irresistible quality that keeps me coming back for more.

Still a work in progress, so will also contain some delectable egg-shaped golden Honeydrop types, some small and larger round entries as well as true Princesses. Slow to give in to LB. Parthenocarpic. ②2013 ①

A=0.2g, \$1.90



4108BO Be My Baby OG (65 days) Ind. This productive cherry is the ongoing result of a cross of three famous tomatoes: an heirloom potato-leaf beefsteak and two cherries, one orange and one red. The crossing and selection process for a red cherry with regular tomato foliage began in 1997 and is now complete. The grape tomato in its background lends a rich sweet flavor somewhat akin to that of Sweet Baby Girl, which it replaced. Bred by Relentless. ②2007. OT-certified. ①

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.90

D=2g, \$6.60 E=10g, \$22.00

4109GD Gardener's Delight (68 days) Ind. Also known as Sugar Lump, and of German origin, but not an heirloom as we once believed. Introduced by Ernst Benary in 1950-51. A parent of the famous hybrid Sweet 100. Produces the kind of rich sweet deep red 1" + cherries that you will want to pop into your mouth in profusion while you bask in the garden sunshine. The large plants need staking and will bear till frost. The fruits taste so good that I overlook their annoying tendency to crack. ③

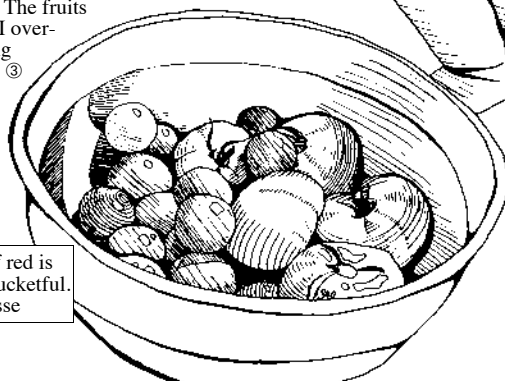
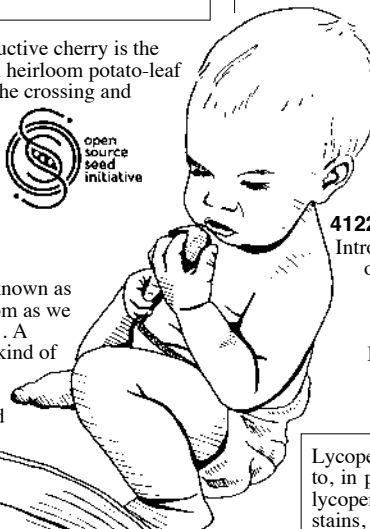
A=0.5g, \$1.20

B=1g, \$2.10

C=2g, \$3.50

D=4g, \$5.50

E=28g, \$20.00



A thimbleful of red is redder than a bucketful.
—Henri Matisse

4115BO Black Cherry OG (75 days) Ind. Two-bite cherries (avg 14–28g) with the dusky color and complex flavor typical of the best black tomatoes, juicy and delicious. Somewhat late for a cherry tomato, fruit ripens slowly and individually until frost, but worth the wait. Examine each plant closely at picking time: the dark-hued cherries are easy to lose in the foliage. Best flavor if left to ripen on the vine till nice and dark. Seems to tolerate the usual tomato diseases but fruits will crack readily in rainy weather. Combine with

4250 Sun Gold and any

bright red cherry

for a lovely display. Brix 7.

Developed by

Vince Sapp

of Tomato

Growers

Supply and

released

2003. CCOF-

certified. ②

A=0.2g, \$1.30

B=0.4g, \$2.20

C=1g, \$3.60

D=2g, \$6.00

E=10g, \$19.00

4117PB Principe Borghese

(75 days) Vigorous Det. An Italian

heirloom with excellent flavor. Used for

sun-dried tomatoes as it has few seeds and

little juice. In our humid climate, we require a

solar dryer or a 100° oven to dry the fruits successfully. Bears small fruits in prolific clusters over a long season. CSA grower Jill Agnew lauds them for holding their perfect shape so well without cracking. MOFGA-certified. ①

A=0.2g, \$1.20 B=0.4g, \$2.20 C=1g, \$3.50 D=2g, \$5.50

E=10g, \$19.00

4119VO Peacevine OG (78 days) Rampant Ind. Selected by Peace Seeds

from Sweet 100 cherry tomato and almost identical in fruit size and growth

habit. Bears gazillions of sweet clusters each with 8 or so 1" fruits of

"wonderful sweet/tart rich flavor." Has the currant tomato in its ancestry.

Very high in vitamin C and Gamma-Aminobutyric Acid (GABA), a sedating

neurotransmitter. That may be why Alan Kapuler named it Peacevine.

CO-certified. ①

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$4.00 D=2g, \$6.80

E=10g, \$22.00

4121DO Green Doctors Frosted OG (81 days) Ind. Low acid, sweet

and delicious, and much better than Green Grape in our trials. There are two

strains of Doctors; this frosted one is the sweeter of the two. Fruits green

with a silver frost, blush gold when ripe. Named in honor of the two doctors,

Amy Goldman and Carolyn Male, who have written influential

books on tomato varieties. Goldman discovered Green Doctors

as a cherry sport of Dr. Carolyn in her 2002 garden and turned

us on to it in her book *The Heirloom Tomato*. Oval fruits 3/4"

wide and 1 1/4" long average 11.2g, wonderful additions to a

cherry tomato mix. Makes great salsa verde; just add lime.

Large 5' rambling plants are prolific producers and resisted EB

all season. On sale; prices slashed. WA-certified. ①

A=0.2g, \$1.20 B=0.4g, \$2.10 C=1g, \$3.20 D=2g, \$5.50

E=10g, \$18.00

4122FO Fargo Yellow Pear OG (82 days) Vigorous Det.

Introduced 1934 by Oscar Will & Co. of Bismarck, ND, yet another

of famous breeder A.F. Yaeger's creations. He crossed Bison with

Yellow Pear for earliness and higher yields. Each plant produces

about three dozen sweet tasty 1 oz fruits. About twice the size of

regular pear tomatoes, the meaty morsels are crack resistant. OT,

ICS-certified. ①

A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.90 D=2g, \$6.60

E=10g, \$22.00

Lycopene is a specific type of carotene, lending a bright red color to, in particular, tomatoes and watermelons. Like other carotenes, lycopene is not water-soluble. As you may be aware, lycopene stains, leaving beautiful evidence of September sauce-making marathons. As with other carotenes, absorption is aided by the presence of fats (think tomato sauces with oil for pasta and pizza). Notably, processing of tomatoes increases the concentration of bioavailable lycopene. For example, lycopene in tomato paste is up to four times more bioavailable than in fresh tomatoes.

Supplier Codes Know where your seed comes from! See page 4 for details.

① Small seed farmers including Fedco staff.

② Family-owned companies or cooperatives, domestic and foreign.

③ Domestic and foreign corporations not part of a larger conglomerate.

④ Multinationals not to our knowledge engaged in genetic engineering.

⑤ Multinationals who are engaged in genetic engineering.

⑥ Manufacturers of neonicotinoids: Bayer and Syngenta.

Open-pollinated PASTE TOMATOES

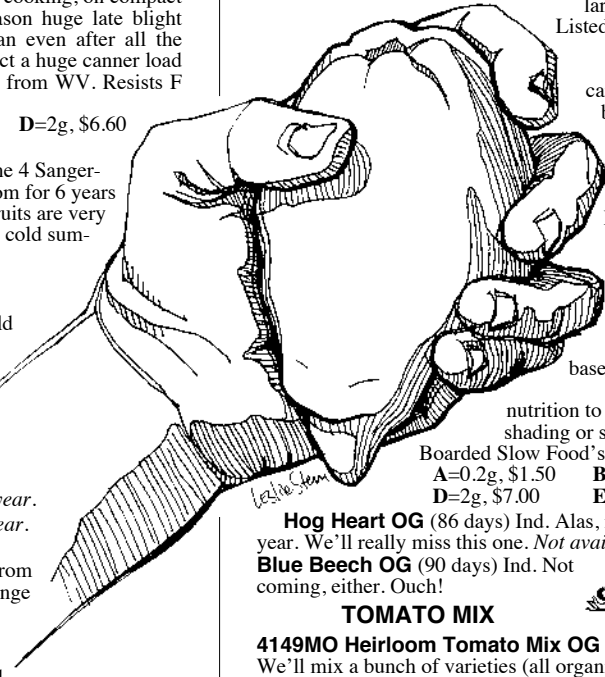
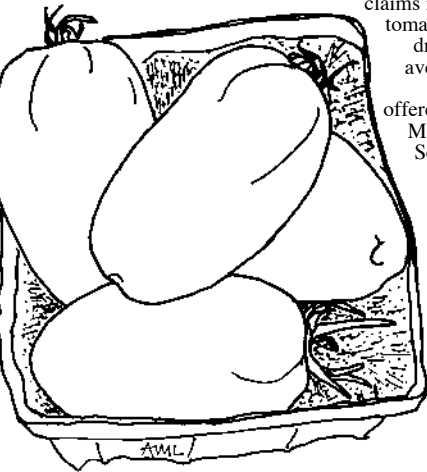
4123MO Mr. Fumarole OG (65 days) Ind. The same cultivar we formerly sold as Mr. Fumo. This large elongated 3-6" pinkish plum tomato was a winner in our 2007 paste test. Comments included "top of the line, rich, complex," "has a crispy brown flavor that lingers," "very flavorful, sweet meaty good," "nice blend of flavors, tart but full tomato flavor," and "sweet, somewhat bland but haunting. I would try it again." Though tough-skinned, can also be eaten out of hand where its tart sweetness pleases. Fair yields. Did not get blossom-end rot, even in 2011 when that disease was prevalent in other paste varieties. ©2009. OT-certified. ①
 A=0.2g, \$1.20 B=0.4g, \$2.00 C=1g, \$3.20 D=2g, \$5.20
 E=10g, \$15.00

4125HO Heinz 2653 OG (68 days) Det. An early red plum type that often ripens all its 2 1/2-3 oz fruits before frost. Firm fruits for cooking, on compact plants. "The perfect canning tomatoes for a short season huge late blight pressure area. Small, loaded plants, fruits stayed clean even after all the leaves were gone. Most ripened at once so I could collect a huge canner load from a small number of plants," reported the Wolperts from WV. Resists F and V. MT-certified. ①
 A=0.2g, \$1.40 B=0.4g, \$2.40 C=1g, \$3.80 D=2g, \$6.60
 E=10g, \$22.00

4131GO Grandma Mary's OG (68 days) Ind. In Zone 4 Sangerville, ME, Jeanne Griffin selected seed from this heirloom for 6 years for earliness and fruit size. Grandma's meaty 6-10 oz fruits are very early for their size. Grandma produces fruit even during cold summers. ©1992. VT-certified. ①
 A=0.2g, \$1.40 B=0.4g, \$2.50 C=1g, \$3.90
 D=2g, \$6.60 E=10g, \$22.00

4133LO Bellstar OG (74 days) Det. Bred at Smithfield Experiment Farm in Ontario and introduced in 1981. Bears red 4 oz round paste tomatoes much larger than most others of this type. Delicious flavor is also good in salads. Ripening is spread over a long season. WA-certified. ①
 A=0.2g, \$1.60 B=0.4g, \$2.80
 C=1g, \$5.00 D=2g, \$7.50 E=10g, \$30.00

Opalka (82 days) Ind. Crop failure; *not available this year.*
Vilms (82 days) Ind. No crop; *also not available this year.*
4137NO Orange Banana OG (85 days) Ind. I never would have believed that the best tomato sauce comes from an orange tomato. But the proof is in the eating and Orange Banana has been a perennial winner of our annual paste taste-offs. Comments from tasters include, "the best flavor and sweetness yet, wow!" and "gourmet candle-light." No wonder Banana has become a staple of David Shipman's famous tomato sauces. Its sprightly sweet flavor, reminiscent of Sun Gold but with more depth and diverse tones, makes an ambrosial sauce by itself and adds a vivid fruity complexity to any sauce with other tomato varieties. Erica Myers-Russo in CT grows it exclusively for drying. She claims it "makes the sweetest dried tomatoes ever." Attractive cylindrical orange fruits 3-4" long average 4-5 oz. Susceptible to blossom-end rot. Originally offered by Moscow seedswoman Marina Danilenko in the 1996 Seed Savers Yearbook. BSO, MOFGA-certified. ①
 A=0.2g, \$1.50 B=0.4g, \$2.60
 C=1g, \$4.50 D=2g, \$7.50
 E=10g, \$26.00



Early blight shows up as drying and dying leaves at the bottom of the plant. EB can be managed culturally, should not result in significant loss of crop. Mulching deters EB by reducing rain splash on foliage. Do not compost affected plants as EB can overwinter even on dead tissue.

Late blight usually starts on the foliage of the plant. Early in the season, late blight infection shows as roundish lesions on leaves that uniquely will cross the center vein of the leaf. Later, blotches appear on stems. Still later, hard crusty lesions form on fruits.

Septoria Leaf Spot can appear almost overnight. It is characterized by yellowing and small circular spots on older leaves. It can eventually spread to the entire plant in conditions of high humidity and temperatures. It can be spread by wind or carried on clothing and tools. Septoria can live over the winter on live tissue, so don't compost affected plants.

4138RO Speckled Roman OG (85 days) Ind. "A knock-out at market last year. Eye-catching with yellow striped scarlet skins. My customers bought them singly for fresh eating and in baskets for cooking into sweet sauces," relates Elizabeth Bangle of Hawk's Hill Farm in Georgetown, PA. John Swensen's psychedelic-looking creation ranked near the top in our 2005 sauce test for its rich tomatoey sweetness and good texture. Roman's red cylindrical fruits are covered with orange-yellow striations, something like an Amish Paste with stripes from an Orange Banana. The actual parents are Antique Roman and Banana Legs, and the fruits have the distinctive nipple of the latter. Plants bear an early abundance of meaty 4-5 oz fruits. Susceptible to disease in cool wet seasons. OT-certified. ①
 A=0.2g, \$1.50 B=0.4g, \$2.50 C=1g, \$3.90 D=2g, \$6.60
 E=10g, \$22.00

4140AO Amish Paste OG (85 days) Ind. Always among the most popular items in the Seed Savers Exchange. Listed members' comments tell all: "large red meaty fruit," "wonderful paste variety," "great flavor for cooking, canning or fresh eating," "the standard by which I judge canning tomatoes," "huge production," "great for sauces, salsa, canning." Strong producer of oxheart fruits up to 8 oz with thick bright red flesh. Larger and better than Roma. Flavor has been consistently good even in poor tomato years. Wisconsin heirloom from Amish farmers in the 1870s, first surfaced in the 1987 SSE Yearbook. We have observed some inherent variation, based on how this variety responds to its environment. Needs room and good nutrition to set mostly nipped fruits. Crowding, shading or stress reduces fruit size and nipping. Boarded Slow Food's Ark of Taste. OT-certified. ①②
 A=0.2g, \$1.50 B=0.4g, \$2.50 C=1g, \$3.90
 D=2g, \$7.00 E=10g, \$23.00

Hog Heart OG (86 days) Ind. Alas, no crop this year. We'll really miss this one. *Not available in 2017.*
Blue Beech OG (90 days) Ind. Not coming, either. Ouch!

TOMATO MIX

4149MO Heirloom Tomato Mix OG
 We'll mix a bunch of varieties (all organically grown seed) in one packet. You'll get different colors, sizes, shapes and flavors (no cherries). With an open mind, a good sense of observation, unjaded taste buds and acute deductive faculties, you can figure out which ones you like and order them by name next year.
 A=0.2g, \$1.50 B=0.4g, \$2.60
 C=1g, \$4.00 D=2g, \$7.00
 E=10g, \$23.00



Diseases: **Bacterial Canker, Spec and Spot**
 Cultural controls: Disinfect greenhouse materials & cages, farming tools & gloves; avoid overhead irrigation; don't work crop when wet; rotate crops; use compost.
 Material: Copper (8604).
 Disease: **Anthraxnose**
 Cultural controls: Rotation; mulching; minimize plant wetness; staking; use compost.
 Disease: **Early Blight**
 Cultural controls: Rotation; avoid stressing plants; staking; keep leaf wetness to a minimum; mulching; indeterminate varieties are more resistant/tolerant; disinfect stakes & cages.
 Material: Regalia (8625), *Trichoderma harzianum* (RootShield 8628); *Streptomyces lycidicus* (Actinovate 8634); *Bacillus subtilis* (Serenade 8637).
 Disease: **Late Blight**
 Cultural controls: Destroy cull potatoes & potato volunteers, avoid overhead irrigation.
 Material: Regalia (8625), Copper (8604).
 Disease: **Septoria Leaf Spot**
 Cultural controls: Space plants for good air circulation.
 Materials: Copper (8604); Regalia (8625), MilStop (8595).
 Pest: **Tomato Hornworm**
 Control: Look for frass (droppings) and handpick. Eeeuw! They make great chicken feed.
 Material: Bt *kurstaki* (8676-9), Spinosad (8685).
 Pest: **Tarnished Plant Bug**
 Cultural controls: Floating row covers (8814), good weed control.
 Material: Pyrethrum (8688).

Hybrid TOMATOES

9,000 seeds per oz. 0.1 gram pkt ~30 seeds; 0.2 gram pkt ~60 seeds.

Premio (60 days) Ind. We expect seed to arrive later in the season. Please check our website for availability, sizes and prices.

4218BC Bobcat (65 days) Det. This cat replaced Seminis/Monsanto's Big Beef, boasting the same impeccable looks, disease resistance, slightly flattened round shape, 6–10 oz maincrop size, thin skins, midseason maturity and medium red color, ideal attributes for commercial growers. A massive plant with huge leaves, thick strong stems and big fruit set. From an April 4 start and June 11 transplanting, our trialer harvested her first ripe fruit on Aug. 15. Bag tag limits seed to a one-time use. Resists F1, F2, GLS and N. Susceptible to SEPT. *This is the last year we will offer.* ©

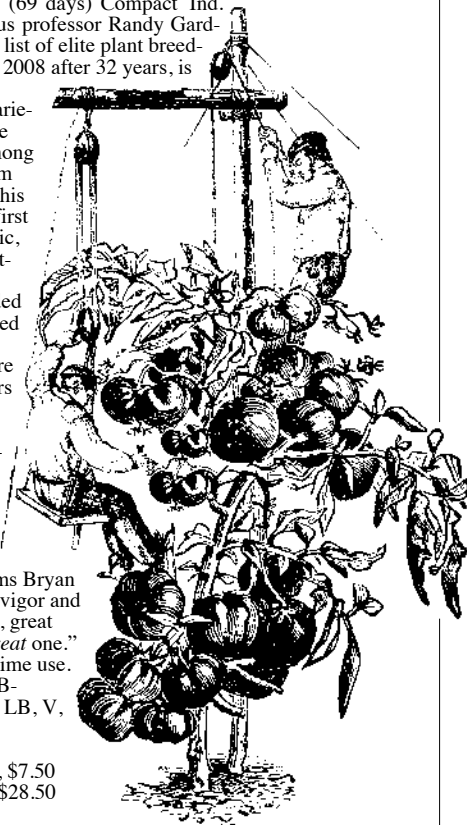
A=0.1g, \$1.60 B=0.2g, \$2.80 C=0.4g, \$4.00 D=1g, \$8.00
E=4g, \$30.00

4225MM Mountain Magic (69 days) Compact Ind. NC State University's emeritus professor Randy Gardner would be at the top of any list of elite plant breeders. Gardner, who "retired" in 2008 after 32 years, is still adding to his impressive oeuvre of 22 superb tomato varieties, most bearing his signature prefix 'Mountain.'

He was among the first to take up the heirloom challenge to breed flavor into his hybrids, and he is among the first to combat LB. Mountain Magic, with grape tomato in its parentage, does both. Even in my unstaked unpruned overcrowded tomato jungles, his unblemished round crack-free two-bite red fruits stand long. Almost all are marketable, growing in clusters of 7 or 8, 10–11 to the pound. As for production: rousing. During a 15-day period beginning Aug. 31, 2012, I harvested 106 fruits—all but three perfect—from a single plant. Juicy with a rich sprightly flavor that greatly pleased and refreshed me. Sums Bryan O'Hara, "Holy winner! Great vigor and disease resistance, high yields, great sweet flavor...you've got a great one." Contract limits seed to a one-time use. Uber-expensive seed, A- and B-packets sold by count. Resists LB, V, F1-3 with tolerance to EB.

~480 seeds/g. ©

A=10sds, \$3.90 B=20sds, \$7.50
C=0.08g, \$13.50 D=0.2g, \$28.50
E=1g, \$112.00



PREVENTING LATE BLIGHT:

The dry conditions spared us this year, but late blight is here to stay. Particularly challenging for those who prefer the flavor of open-field-grown tomatoes is the seeming arbitrariness of the outbreaks. Although cool temperatures, moist conditions, still air and lack of sunshine favor sporulation, spores can occur and advance in any condition of high humidity even in the absence of significant precipitation. LB might spread quickly...or not; wind-borne spores can travel hundreds of miles on storm fronts, but also can be baked into submission by the hot sun. Be prepared and employ as many preventive techniques as you are willing and able. Once LB lesions develop on your plants take immediate action to halt the disease in hopes of salvaging a crop. Our recommendations:

- Where possible, use resistant varieties. We offer **4225 Mountain Magic** and **4253 Jasper**. Unfortunately, we have yet to find a resistant main crop variety that meets our high standards for flavor. Our search continues.
- Try to find tolerant cultivars—use anecdotal evidence and experiment.
- Grow your own tomato plants or buy locally grown seedlings. Know your farmer!
- Do not use saved potatoes as seed stock. Purchase only new certified disease-free seed potatoes. More potato info on p. 119.
- Plant in areas with full sun and few wind blocks. Avoid shade and moist environments. Facilitate air movement. Maintain high soil fertility.
- Stay on top of the weather. Access state IPM reports, online forecasting models or smart phone apps. See below for a list of specific resources.
- If you choose to spray, have a plan and materials on hand in June, so you can make quick and timely application(s) when conditions indicate. More about control materials on p. 66 and p. 138.
- OGS offers a full roster of preventive and post-ap products.
- Most market growers and many home gardeners now grow at least a portion of their tomatoes under cover. Homemade high tunnels, caterpillars or commercial hoopouses/greenhouses can greatly reduce vulnerability though still require vigilance.

4233JS Jet Star (72 days) Compact

Ind. As hybrids go, Jet Star has been around for a long time. The 1979

Harris catalog reported, "Our

Jet Star met with as great a

reception as any intro-

duction we ever

offered." Almost 30

years later it remained

their best-selling hybrid

tomato. In a test of 16

commercial varieties

grown in high tunnels at

Highmoor Farm, it had

the highest yield of total

marketable and premium-

quality fruit. The University

of Maine Food Lab also rated

it the top greenhouse

tomato. Year after year it

was the best early full-

sized tomato in our trials, ripening prolific quantities of cosmetically perfect

7–8 oz globes with outstanding flavor. The smooth firm fruits almost never

scar or crack and have excellent interior and exterior coloration. Resistant to

F1 and V. ©

A=0.2g, \$2.50 B=0.4g, \$4.80 C=1g, \$10.80 D=2g, \$19.50
E=4g, \$38.00

4236HT Heather (73 days) Compact Ind. Incorrectly billed as a replacement for Seminis/Monsanto's mid-sized Celebrity in past Fedco catalogs,

Heather does not fill that niche. Instead, its smaller round fruits, red with

orange shoulders, weigh in at 2–4 oz avg. Ideal as salad tomatoes, with high

solids these can do double duty as paste tomatoes. Their tough skins, while

tolerating rough handling, belie a flavor that got decent marks from

tasters—sweet with a bit of tart undertone. Ripened for Donna Dyrek Aug.

15 from an April 14 start. Susceptible to SEPT. *This is the final year we will*

offer. We recommend 4241 Momotaro. ©

A=0.1g, \$2.40 B=0.2g, \$4.50 C=0.4g, \$8.00 D=1g, \$15.00
E=4g, \$56.00

4238LO Luci 2103 OG (73 days) Ind. Replacing Buffalo in our green-

houses, uniform productive 6 oz Luci was the first of its class to ripen in our

trial, setting about 10 clusters, each with 3–4 fruits. We loved Luci for its

earliness, uniformity, high yields and disease resistance. Red fruits are

flavorful, mild, juicy, a little mealy, rarely crack, never have green

shoulders. Beautiful sturdy vigorous healthy plants show good leaf cover.

A=0.1g, \$2.30 B=0.2g, \$4.50 C=0.4g, \$7.00 D=1g, \$15.00

4241MT Momotaro (78 days) Vigorous Ind. This pink gem, a study in

delicacy and nuanced flavor, deservedly the dominant fresh-market tomato

in Japan, came to the States where it was re-named 'Tough Boy.' Perhaps it

visited Trump Tower along the way. Maybe its tolerance to cracking or its

deceptively strong skin trumped some PR hack's judgment. Anything but

tough, these tennis ball-sized round 4–7 oz fruits borne 6–7 to a cluster are

noteworthy for their well-balanced, intensely rich and sweet, slightly acidic

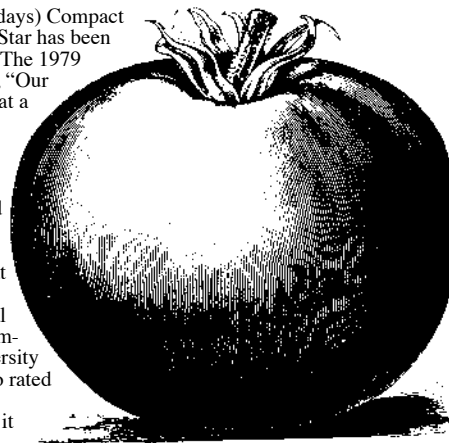
flavor. I grew and enjoyed them in 2012. Independently, Heron and his crew

picked them out as superior in their 2016 trial, even though they aren't way

productive. This hybrid truly tastes as good as any mid-sized open-pollinated

heirloom. V, F and N tolerant. © NEW!

A=0.05g, \$3.80 B=0.1g, \$7.50 C=0.2g, \$14.00 D=0.4g, \$26.00



TOMATOES

"In this year of political insanity, climate alteration and general mayhem, growing a garden remains the best and most rewarding subversive act. Thank you for your leadership."

—Jean Paulsen,
Teddyhead Farmette,
Eureka, CA



OTHER USEFUL INFORMATION:

- LB on tomatoes is not seed-borne. However, other tomato diseases can be seed-borne so be careful. To reduce risk, use fermentation to extract seed.
 - Late blight does not survive on dead tissue. In frozen northern areas infected plants may be composted. However, other tomato diseases can survive on dead tissue to infect your next crop so it is probably *best not to compost any diseased tomato plants.*
 - It is unnecessary to place LB-infected plants in trash bags. Instead, if the plants are beyond saving, pull them up and sun-cook or freeze them on the soil surface.
- Consult vegetablemndonline.ppath.cornell.edu/ for excellent photos and information.
- Heron accesses University of Maine Cooperative Extension: Potato IPM bi-weekly to learn where infections have been confirmed in Maine or the eastern United States. www.umaine.edu/potatoes, 1-888-USE-UMCE.
- You can also use the forecast model http://uspest.org/risk/tom_pot_map to assess potential for spore germination and lesion formation in your area.

Hybrid CHERRY TOMATOES

4250SG Sun Gold (57 days) Ind. To quote one customer, "Without these little babies, there's no summer."

A perfect combination of deep sweetness with a hint of acid tartness, so good that for almost a decade it took away our incentive to trial cherry tomatoes because no others could match it. In a field replete with choices, we are drawn to Sun Gold like candy.

What is its elusive alluring tang? Quart after quart grace the table, yet we rarely reach surfeit July through September. Small fruits averaging 8.2g, borne in prolific clusters, ripen very early to a rich apricot color and keep producing till frost. Very prone to split so pick early when rains are forecast. Brix 8. Resists F1, TMV. ⑤

A=0.1g, \$3.20 B=0.2g, \$6.20 C=1g, \$29.50 D=2g, \$58.00
E=4g, \$115.00

4252SO Esterina OG (60 days) Ind. Since a full medley of colors is so important now in market displays, we think there is a niche for a true bright yellow cherry. We'll find out this year. Among its many attributes, Esterina is large for a cherry, productive over a long period, disease resistant, crack-free and borne on large clusters. Though the flavor will never displace Sun Gold, Pink Princess or Sweet Treats from my top five, it rates a solid good: a clean juicy sweetness that may bring you back for more. For a true yellow (golden or orange ones not allowed), that's no small compliment! Customer response was underwhelming in its debut. Our packet contains 25 or more of these very small seeds. We invite you to compare prices. Resists V and TMV. AGRIOR-certified. ③

A=0.05g, \$3.80 B=0.1g, \$7.00 C=0.2g, \$13.00 D=0.4g, \$25.00
E=1g, \$50.00

4253JO Jasper OG (60 days) Ind. (60 days) Just what you think of when you think cherry tomatoes—deep red globes on small clusters. The small one-bite round fruits average 7.2g and deliver a pleasing instant juicy sweetness. "A real winner at my farmers market—great taste, no disease and very little cracking. We had repeat customers requesting these little gems," says Chris Radtke of Murdock, KS. Though sitting in the epicenter of my LB infestation in 2014, these vigorous vines defied it and cranked out pint after pint of perfect delectable fruits that held quality a long time in the field. Very early, very prolific, very disease resistant. No wonder they won an AAS award in 2013 for Johnny's. I was harvesting them in a cold summer by mid-August even though I did not start my seedlings till April 8. They will always be my cherry tomato insurance policy. MOFGA-certified. ③

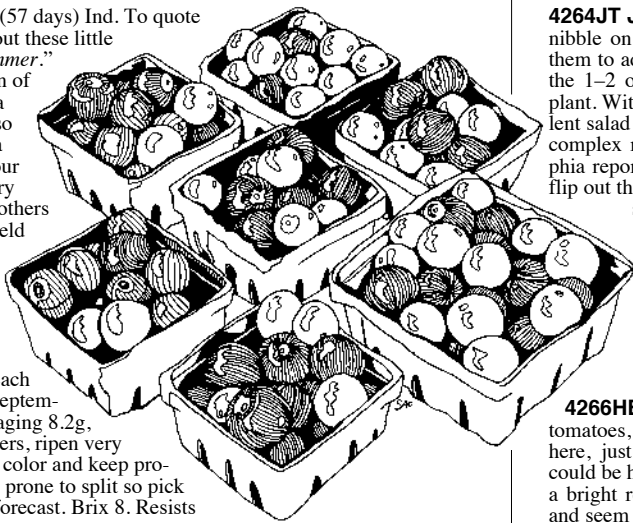
A=0.02g, \$3.60 B=0.04g, \$7.00 C=0.08g, \$13.00 D=0.2g, \$28.00
E=1g, \$115.00

4254ST Sweet Treats (75 days) Ind. Unusual among cherry tomatoes for its phenomenal flavor and incomparable gorgeous deep ruby color with matte finish at peak ripeness. Roberta said, "These are as close in taste to a full-size tomato as I've ever eaten, with a complexity and balance of sweetness and flavor, low acid and mellow. My vote is a resounding yes at any price." Royalston, MA, market grower Larry Siegel's endorsement was more restrained: "Large indeed. Plentiful indeed. Handy for bulking up my containers of mixed cherries for market. But seemed to take forever to change from pink to deep rose and while tolerant to cracking they are not resistant." Large fruits (20–30g) come in clusters of 12–15 per truss. Perfect for salads and snacking. Ripens from pink to deep rose. Wait for full color to harvest. Brix 8–9. Bag tag limits seed to a one-time use. Sold by seed count. Resistant to TMV0.1, F1.2 and leaf mold. Tolerant to GLS, crown and root rot. ~400 seeds/g, A–C-size packets sold by count. ⑤

A=8sds, \$3.80 B=16sds, \$7.20 C=32sds, \$12.50
D=0.2g, \$25.00 E=1g, \$105.00

4256SW Super Sweet 100 (78 days) Ind. Like Sweet 100, but with more disease resistance. Very popular hybrid cherry tomato ripens clusters of 1" round sweet fruits. Should be staked. Will split in rainy conditions. Bag tag limits seed to a one-time use. Resistant to V and F1. ⑤

A=0.2g, \$4.20 B=0.4g, \$8.20 C=1g, \$20.00
D=2g, \$38.00 E=4g, \$72.00



Hybrid GRAPE TOMATOES

4264JT Juliet (60 days) Ind. There will be no lack of Romeos who want to nibble on these and no lack of the delectable little plum-shaped fruits for them to adore. They come in clusters everywhere, each truss bearing 6–8 of the 1–2 oz grapes for an astonishing total of 50–80 glossy red fruits per plant. With an engaging sweetness, they make good stewing tomatoes, excellent salad tomatoes, and, despite their juiciness, a tangy sauce with a diverse complex richness and full sweet tomato flavor. Lynn Sagalyn of Philadelphia reports that "Juliet is my favorite tomato for drying. Cut them in half, flip out the seeds and dehydrate... They are like tomato 'raisins'—chewy and sweet to just eat, put on pizza, or add some red to a winter stir-fry."

Scout Proft of East Dorset, VT, says, "Entertained by your description, but the plain truth is they are the highest yielding most versatile tomato out there—both for greenhouse and field use in all culinary ways. Period." This 1999 AAS winner is firm enough to hold on the vines for up to two weeks, crack resistant, tolerant to EB and LB, and fairly invulnerable to insect or slug damage. ③

A=0.2g, \$2.90 B=0.4g, \$5.50 C=1g, \$12.50
D=2g, \$23.00 E=4g, \$44.00

4266HB Honey Bunch (62 days) Ind. I've never been fond of grape tomatoes, but I'll make an exception for this honey bunch. No complexity here, just a luscious over-the-top sweetness with a honeyed nuance that could be habit-forming. For maximum enjoyment, wait until it ripens fully to a bright red in the field. That's easy because they are very crack-resistant and seem to hold field quality forever. Our trialers loved the texture of these bright red 8–14g 1x1½" fruits, the size of cherries, but the shape of grapes. "Like small Juliets," they said. Brix 9. High-yielding vigorous vines are tolerant to EB. ③

A=0.1g, \$4.10 B=0.2g, \$8.00 C=0.4g, \$15.00 D=1g, \$35.00
E=4g, \$135.00

4271LU Lucia

(64 days) Ind.

Everyone in our taste test kept coming back for more of these super-crunchy red grapes. The consensus: these diminutive 5–8g sweet fruits can boast some tartness and complexity. They "taste like a red Sun Gold."

Unlike Sun Gold, they have some crack resistance, vulnerable only in cold wet weather. Starting very early, Lucia cranks out tons of bright red fruits great in salads, on pizzas or in sauces. Brix 7.5. ③

A=0.1g, \$4.80 B=0.2g, \$9.40 C=0.4g, \$18.00 D=1g, \$44.00

4273AY Aria (68 days) Semi-Det. These sweet bright golden-yellow oblong fruits averaging 15.5g belong in the grape tomato family. Firm but not tough skins that resist cracking conceal some interior tenderness. Aria's flavor never strikes a false note, smooth, stable, meaty, neither stunning nor dull, but good. Sweet, fruity with a little spicy acid undertone, but not at all juicy. Somewhat late and slow to ripen but productive once it gets going. In a year lacking heat units, first ripe fruit from a late transplanting was

Aug. 29, 2014. Most years would be significantly earlier. Suitable for high tunnel production. Slow sales make this Aria's final rendition. ③

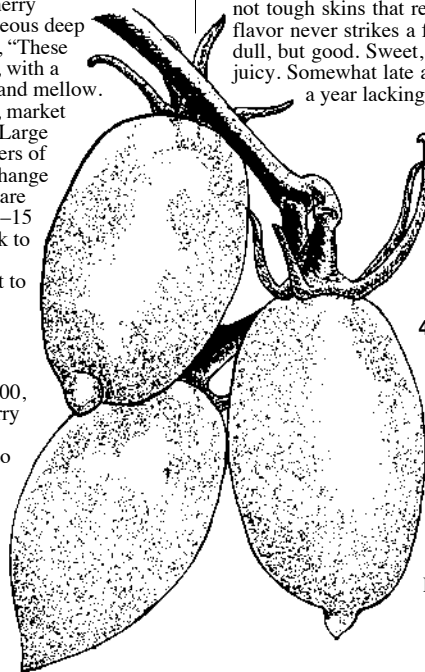
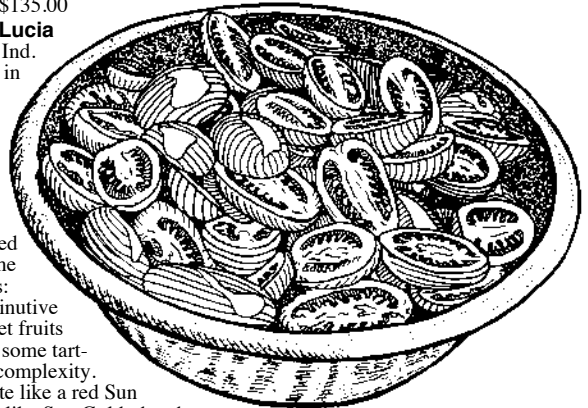
A=0.1g, \$3.00 B=0.2g, \$5.80
C=0.4g, \$11.20 D=1g, \$21.00
E=4g, \$76.00

Hybrid PASTE TOMATOES

San Diego (64 days) Det. Replaced by Pasta. No longer available.

4296PT Pasta (84 days) Ind. In our taste tests, we ate Pasta without pasta. Without spice, herb, pepper or salt, these 2–3½ oz red paste plums blend wholesome sweetness and tartness into a thick delicious warm bright red sauce. Either as a single-variety sauce or as the solid base for your paste harvest mix, you can't go wrong with Pasta. Large healthy plants manage to resist and outgrow most diseases while putting out lots of high-quality fruits. We were unable to resist Pasta's combination of higher yield and robust comfort-food flavor, choosing it to replace determinate hybrid San Diego, even though it ripens a little later. Resistant to N, V, and TMV. Tolerant to many physiological problems. Seed in short supply; order early. ④

A=0.1g, \$2.20



"I appreciate your website allowing me to filter out F1 varieties when browsing."
—Eleanor Hucker, Pond's Edge CSA, Ortonville, MI

VEGETABLE PLANTING GUIDE

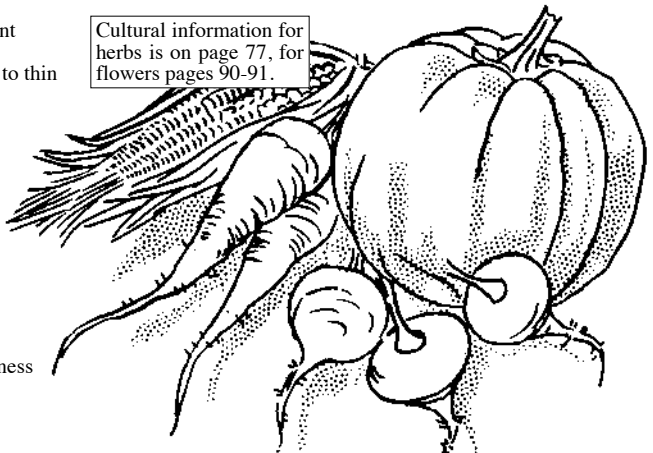
| Vegetable | Catalog # range | avg. sds/oz | sds/100' | Pkt plants | distance apart | thin to | row spacing | seed depth | min soil temp °F | ideal soil temp | hardiness | planting dates |
|------------------------|----------------------------|-------------|----------|-------------|----------------|----------|-------------|------------|------------------|-----------------|------------------|----------------|
| Artichoke | 3608 | 560 | T | 10 pl | 3' | No | 2' | 1/2" | 60 | 65-85 | MH | tp late |
| Arugula | 3020-29 | 15000 | 3g | 60' | 1" | 4" | 18" | 1/4" | 50 | 65-85 | MH | May 1/Aug 1 |
| Asian Greens, assorted | 3200-23 | 5000-15000 | varies | | | | | 1/4" | 50 | 65-85 | MH | early May |
| Basil | 4414-4470 | 18000 | 5g | 10-80' | 1/2" | 4" | 18" | 1/4" | 65 | 70-85 | VT | June 1 |
| Bean, Bush, Dry | 200-79,326-90 | 90 | 8 oz | 25' | 3-4" | No | 2-3' | 1" | 60 | 60-80 | T | late May |
| Bean, Fava | 298-99 | 17 | 1# | 12' | 3-4" | No | 2-3' | 1" | 40 | 40-75 | H | ASAP |
| Bean, Lima | 323-325 | 60 | 1# | 40-60' | 4-6" | No | 3' | 1" | 60 | 70-85 | VT | late May |
| Bean, Pole | 280-97, 318, 322, 325, 371 | 65 | 6 oz | 10 pl/oz | 6/pole | 3/pole | 3-4' | 1" | 60 | 60-80 | T | late May |
| Bean, Soy | 480-99 | 80 | 5 oz | 10' | 3" | No | 3' | 1" | 60 | 70-90 | T | June 1 |
| Beet | 2100-99 | 2200 | 5/8 oz | 20' | 1" | 2-4" | 12-18" | 1/2" | 40 | 60-85 | H | Apr-July |
| Broccoli | 3300-29 | 5000-8000 | 5g | .5g=10' | 1" | 24-30" | 30" | 1/4" | 50 | 65-85 | MH | tp May/June |
| Brussels Sprouts | 3330-49 | 5000 | 5g | .5g=10' | 1" | 24-30" | 24-30" | 1/4" | 50 | 65-85 | H | tp May/June |
| Cabbage | 3350-99 | 6000-7000 | 5g | .5g=10' | 1" | 24-30" | 24-30" | 1/4" | 40 | 55-95 | MH | tp May/June |
| Carrot | 2000-99 | 18000 | 10g | 1/8oz=35' | 1/4"-1/2" | 1" | 16-24" | 1/2" | 40 | 60-85 | H | Apr-July |
| Cauliflower | 3400-40 | 6000-7000 | 4g | .5g=12' | 1" | 30" | 30-36" | 1/4" | 40 | 55-80 | MH | tp May/June |
| Celery/Celeriac | 3610-49 | 75000 | T | 500 | 8" | No | 2-3' | 1/8" | 40 | 59-70* | T | tp June 1 |
| Chard | 3030-43 | 800-2000 | 1 1/2 oz | 5-13' | 1" | 3-6" | 18-24" | 1/2" | 40 | 50-85 | H | ASAP |
| Chicory | 3047-49 | 16000 | T | 300 pl | 1" | No | 2' | 1/8" | 50 | 60-85 | H | tp late June |
| Chinese Cabbage | 3224-25 | 9500 | 1/4 oz | 25' | 1/2" | 12-18" | 24-30" | 1/4" | 50 | 70-95 | MH | late May or tp |
| Corn, OP | 500-699 | 100 | 4 oz | 50' | 3" | 1' | 3' | 1" | 50 | 60-95 | T | late May |
| Corn, hybrid | 500-699 | 155 | 4 oz | 50' | 3" | 1' | 3' | 1" | 50 | 60-95 | T | late May |
| Cress | 3050-58 | 9000 | 3g | 50-70' | 1/2" | 1-2" | 18" | 1/4" | 50 | 65-85 | MH | May 1 |
| Cucumber | 1200-1399 | 1000 | 1/2 oz | 11' | 2" | 4" | 3-4' | 1/2" | 60 | 65-95 | VT | June 1 or tp |
| Eggplant | 3650-91 | 7000 | T | 40 pl | 20-30" | No | 30-36" | 1/4" | 60 | 75-90* | VT | tp early June |
| Endive | 3060-92 | 18000 | 5g | 40' | 1" | 8" | 18-24" | 1/4" | 50 | 60-85 | H | Apr-July |
| Gourds, large | 1960-99 | 175 | T | 20 pl | 6/hill | 2-3/hill | 6' | 1/2" | 60 | 70-90 | T | tp early June |
| Gourds, small | 1900-59 | 500 | 1/5 oz | 10 hills | 6/hill | 3/hill | 4-6' | 1/2" | 60 | 70-90 | T | late May |
| Kale/Collards | 3441-69 | 5000-8000 | 5g | 1g=20' | 1" | 12" | 2' | 1/4" | 50 | 65-85 | VH | ASAP-July |
| Kohlrabi | 3470-79 | 6000 | 4g | 1g=25' | 1" | 24" | 24" | 1/4" | 50 | 65-85 | MH | tp May/June |
| Leek | 2400-29 | 9000 | T | 1g=320 pl | 8" | No | 2' | 1/2" | 50 | 60-70 | MH | tp May 1 |
| Lettuce | 2700-2988 | 25000 | 4g | 1g=25' | 1/3" | 1' | 12-18" | 1/8" | 35 | 40-80 | H | ASAP-Aug |
| Mâche | 3100-19 | 17000 | 1/4 oz | 25' | 1/2" | 2" | 18" | 1/4" | 48 | 50-68 | VH | ASAP-Aug |
| Melon | 900-999 | 960 | T | 12-20 hills | 3/pot | 2/hill | 5' | 1/2" | 60 | 75-95 | VT | tp early June |
| Mustard | 3226-59 | 15600 | 1/8 oz | 40' | 1" | 4-6" | 2' | 1/4" | 50 | 65-85 | MH | Apr-Aug |
| Okra | 3695-99 | 420 | T | 30 pl | 12" | No | 2-3' | 1/4" | 60 | 70-90 | VT | tp early June |
| Onion/shallots | 2440-99 | 7000 | T | 450 pl | 4" | No | 12-18" | 1/2" | 50 | 60-70 | MH | tp May 1 |
| Pac Choy | 3260-73 | 12500 | 1/4 oz | 14-25' | 1/2" | 1/2" | 6-12" | 1/4" | 50 | 70-95 | MH | May or tp |
| Parsley | 3155-79 | 14000 | 1/4 oz | 25' | 1/4" | 1" | 12-18" | 1/4" | 40 | 50-80 | VH | Apr-Aug |
| Parsnip | 2305-10 | 7000 | 1/2 oz | 25' | 1/2" | 2-3" | 12-18" | 1/2" | 46 | 55-77 | VH | Apr-July |
| Pea | 700-899 | 125 | 8 oz | 25' | 1 1/2" | No | 3-5' | 3/4" | 40 | 50-75 | plants H | ASAP |
| Pea for fall crop | 700-899 | 125 | 8 oz | 25' | 1 1/2" | No | 3-5' | 3/4" | 40 | 50-75 | blossoms, pods T | July |
| Pepper | 3700-3899 | 4500 | T | 10-50 pl | 12-18" | No | 2-3' | 1/4" | 60 | 68-95 | VT | tp early June |
| Perilla (Shiso) | 3282-83 | 14000 | T | 150 pl | 8-12" | No | 18-24" | 1/4" | 65 | 68-75 | VT | tp early June |
| Pumpkin | 1700-99 | 100-280 | 1/2-1oz | 3-8 hills | 5/hill | 3/hill | 6' | 1" | 60 | 70-90 | T | late May |
| Radicechio | 3186-91 | 19000 | 1/2 oz | 5-30' | 1" | 8-10" | 18" | 1/8" | 50 | 60-85 | H | late June |
| Radish | 2200-99 | 2500 | 1 oz | 12' | 1/2" | 1" | 18" | 1/2" | 40 | 55-85 | H | Apr-Aug |
| Rutabaga/Turnip | 2350-99 | 9000 | 1/3 oz | 40' | 1/2" | 3-6" | 18" | 1/4" | 40 | 60-95 | H | Apr-July |
| Salsify/Scorzonera | 2318-22 | 2000 | 5/8 oz | 20' | 1" | 2" | 18" | 1/2" | 50 | 65-85 | H | Apr-Jun |
| Spinach | 2500-88 | 1400-2600 | 1/2 oz | 40' | 1" | 2" | 12-18" | 1/2" | 35 | 45-65 | VH | ASAP |
| Spinach, fall crop | 2500-88 | 1400-2600 | 1/2 oz | 40' | 1" | 2" | 12-18" | 1/2" | 35 | 45-65 | VH | Aug |
| Squash, patty pan | 1577-90 | 200-320 | 5/8 oz | 5-8 hills | 5/hill | 2-3/hill | 4' | 1" | 60 | 70-90 | T | late May or tp |
| Squash, winter | 1600-99 | 120-450 | 1/2-2 oz | 3-15 hills | 5/hill | 3/hill | 4-6' | 1" | 60 | 70-90 | T | late May or tp |
| Squash, summer | 1400-1599 | 160-320 | 1/2 oz | 5-8 hills | 5/hill | 2-3/hill | 4' | 1" | 60 | 70-90 | T | late May or tp |
| Tomato | 4015-4299 | 9000 | T | 6-125 pl | 3' | No | 3' | 1/4" | 50 | 60-85 | T | tp June 1-10 |
| Watermelon | 1000-1099 | 670 | T | 7-14 hills | 3/pot | 2/hill | 5' | 1/2" | 60 | 75-95 | VT | tp early June |
| Zucchini | 1400-59 | 180 | 1 oz | 4-6 hills | 5/hill | 2-3/hill | 4' | 1" | 60 | 70-90 | T | late May or tp |

Abbreviations Pkt plants=how many row feet or hills our smallest packet will plant
 T=transplanted only, in our climate.
 tp=transplant pl=plants g=grams, 28.4g=1oz. No=not necessary to thin
 *Celery and some varieties of eggplant require fluctuating day and night temperatures for good germination.

Cultural information for herbs is on page 77, for flowers pages 90-91.

Hardiness rating VT=very tender: will not survive frost, can be damaged by temperatures under 40°
 T=tender: will not survive frost
 MH=moderately hardy: survives light frosts
 H=hardy: survives frost generally to the low twenties
 VH=very hardy: will overwinter if protected

Approximate planting date:
 ASAP=as soon as ground can be worked, does not thrive in heat
 Approximate planting dates are for our Central Maine climate.
 Please make appropriate adjustments for your climate, using hardiness as a guide.



Seed counts are provided as a *guide*, not a *guarantee*. They vary from cultivar to cultivar. Planting rates will vary if intensive methods such as beds are used.

Minimum soil temperatures are the lowest that will permit any germination. Expect slow spotty germination if you plant below or above the ideal range. For a good stand and quickest emergence plant as close to the middle of the ideal range as possible. If you have specific cultural questions, consult more detailed resources or get in touch with us.

A few seeds with unusually thick or hard coatings may benefit from **scarification** just before sowing. This is accomplished by nicking them with a knife, a pinpoint or lightly scratching them with sandpaper.

Some seeds need to be **stratified** before sowing. This tricks the seed into thinking it has gone through winter followed by the gradual warm-up of spring. It is accomplished by first moistening and then chilling the seed for a specified period of time.

GRAINS



The selections here are rare heirloom varieties especially designed for small- or homestead-scale production. Most of them are decorative in both form and color, making great accents to bouquets and wreaths, but the revived interest in food security and sovereignty is what inspires us to list more edible and heirloom grains every year. In the early 1800s Maine was the breadbasket of the U.S. Wheat and rice do not demand huge space and can be threshed with a little ingenuity. With good fertility, proper spacing and reasonable diligence, it is quite possible to harvest 10 lb of heirloom wheat from 100 plants in a 10x10' plot. A 100' row of rice can yield 6–10 lb.

Larger-scale growers and folks looking for cover crops can check out the list in our OGS Farm Seed section beginning on page 120. See also Eli Rogosa's new book *Restoring Heritage Grains*, 9490 in our book section.

Amaranth *Amaranthus* spp.

Amaranth was one of the Aztecs' five principal crops. They ground puffed seeds into flour and prepared sauces with the leaves. Amaranth grain has 14–16% protein. The leaves are rich in vitamin C, carotene, iron, calcium and niacin.

See 4831-4837 for ornamental amaranths.

430000 Opopeo OG (65 days to flower, 125 days to seed)

A. hybridus The grain of the gods from Opopeo, Mexico. Doubles as a wonderful green until flower-set. Tom Vigue sows thickly after frost danger, enjoying the bronze-green leaves from 4–6" and the top leaves until the plant reaches 2'. Vigue says, "Never stringy, always tender... a lot more massive than spinach," to which it tastes similar when cooked. Not great raw. Thin as you go to grow grain in the same bed, or start as transplants to increase chances of beginning your harvest before the heavy autumnal rains. Huge plants require 2' spacing. Opopeo's magenta-purple stems grow 4–8' topped by 2' deep burgundy flower spikes each laden with 4–8 oz of seed grain. Grain matures from early to mid October. Cut and hang the heads to dry inside rather than field-curing in wet autumns. Wait until grain is crumbly dry and then rub against a mesh screen to thresh. Store your grain securely; mice love it. Boil two parts water to one part grain for a high-protein gluten-free breakfast cereal or mix with pumpkin meal, vegetables and herbs, allow to harden, and slice into fryable patties. Multi-branched plants prone to lodging in loose soils, otherwise may offer support to pole beans when given a head start. WA-certified. ~1200-1500 seeds/g. ①

A=1g, \$1.80 B=4g, \$4.40 C=16g, \$12.00

4301RC Red Calaloo (120 days) Open-pollinated.

A. tricolor Calaloo is a Caribbean stew that has many local variations, and also the name of the greens usually used in the dish, which also varies from island to island. This type is used in Jamaica, in the namesake dish as well as in many others. Although I have never been a fan of amaranth greens, considering them barely edible forage, the tricolor blaze on the tall upright Calaloo in August, more red than Hopi Red Dye, wowed me so I was induced to eat a bit. Double Wow! It was soft smooth easy eating—and that was raw, straight out of the field. Grow it as an ornamental and then eat it. Prefers warm conditions. ③

A=1g, \$1.20 B=4g, \$3.50 C=16g, \$8.00 D=80g, \$22.00

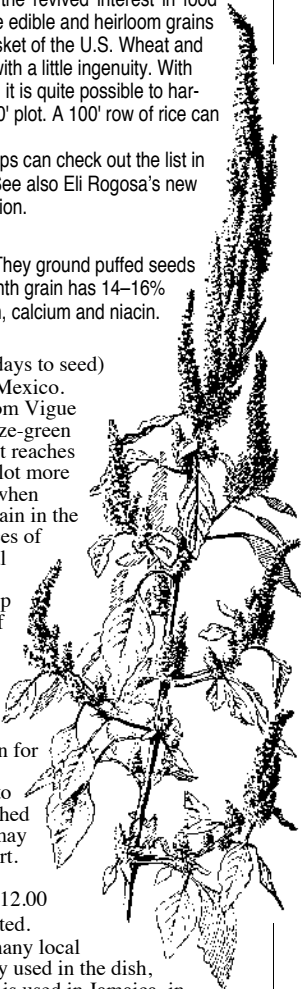
4303BH Burbank Hulless Barley ECO *Hordeum vulgare* An historic 6-rowed barley which until recently had been unavailable since Luther Burbank sold it in 1926. Burbank selected it from California Hulless barley and gave it his name.

Recommended by Will Bonsall for its tall heavy stalks that allow it to stay erect without lodging. Golden plump grains with a rich nutty flavor and 14% protein content. Has awns. Sown at 6" spacing rather than broadcast, our packet will cover a 200 sq ft bed with 600–800 plants likely, based on Bonsall's experience, to yield 5–8 lb of seed. MT-certified. ~30seeds/g. ①

A=28g, \$3.30

4309TO Terra Hulless Oats OG *Avena nuda* (100 days) Bonsall calls this the best of the naked oats, the one to grow to eat. It is probably the earliest as well as the highest yielding with the largest seed. This high-protein grain with pleasing flavor is easier to thresh than most other oats, though it still has a small hull that must be removed. MT-certified. ~35 seeds/g. ①

A=7g, \$1.40 B=28g, \$5.00



Hulless Barley

Rice *Oryza sativa*

Grow rice in Maine! Wild Folk Farm, growers of Titanio, Hayayuki and Akamuro, started with 5g of each from the USDA and have been selecting the best traits from each variety. We are pleased to be offering these seeds for the first time. All four of our rices were grown in central Maine, Zone 5a/4b.

Upland varieties grow in drier conditions, but also do well in flooded clay paddies. Upland rice is taller and has fewer tillers than lowland. Each tiller is thicker and will produce more seeds, 12–24 tillers per plant. **Lowland varieties** are traditionally grown in wet clay paddies or riparian areas, although flooding is not necessary. They are typically shorter and produce more tillers than upland rice, 30–50 per plant.

Culture: For both types, a rotation of saturated and very short (a few days) dry periods is ideal from late May to June. After that, cycling water patterns is less important but still helpful. Keep paddies flooded (but not stagnant) if you can. Dryness during the second half of the summer shouldn't effect yields much, just maturation time and weed pressure. For transplants, start at 70–85° indoors 4–5 weeks before setting out into rich moist warm soil (early June in Maine). Space plants 10–12" apart in full sun. May be direct seeded in warmer regions. Heads the first week of Aug. and finishes by late Sept. If you live in a dry place, add 1–2 weeks to maturity dates. Want help processing your rice? Contact wildfolkfarmers@gmail.com



4310AM Akamuro (105 days from transplant)

A fast-maturing **lowland** rice, *aka* means 'red' in Japanese, and *muro* means 'root cellar' or 'ice house.' Originating in Hokkaido, Japan, this delicate rice, one of the skinniest, is a true heirloom. The aromatic seeds mature from pearly white to red. Hulls are burnt orange when mature, making Akamuro extremely ornamental. The bobolinks (or ricebirds) love to share the harvest. Hardy to Zone 4b from transplant. Regardless of water management, this rice doesn't produce many tillers from transplant, so it is a good candidate for direct sowing in 5a or warmer. ① **NEW!**

A=1g, \$1.00 B=4g, \$3.00 C=28g, \$8.00 D=112g, \$28.00

4311HY Hayayuki (105 days from transplant) A **lowland** rice, *hayayuki* is Japanese for the first snow of the season, which perhaps coincides with its harvest in colder climates. Very nutty and full flavored. Fast to mature, it can work in Zone 4b in paddies from direct sowing but does best from transplants. Sensitive to dry weather, for large yields Hayayuki craves saturated soil until July. Tops out at about 3'. MOFGA-certified. ① **NEW!**

A=1g, \$1.00 B=4g, \$3.00 C=28g, \$8.00 D=112g, \$28.00

4312RO Duborskian OG (115 days from transplant) Roberta Bailey got this **upland** short-grain hardy Russian variety from Seed Savers Exchange member Anpetu Oihankesni of Colorado. Well adapted to dry-land production, sturdy plants resist lodging, grow to 20–24" producing 12–18 tillers per plant, each bearing a rice pannicle. Can withstand a light frost. May be direct seeded in warmer regions. Bailey grew our seed crop in central Maine. MOFGA-certified. ~35-40 seeds/g. ①

A=1g, \$1.90 B=4g, \$5.60 C=28g, \$28.00 D=112g, \$98.00

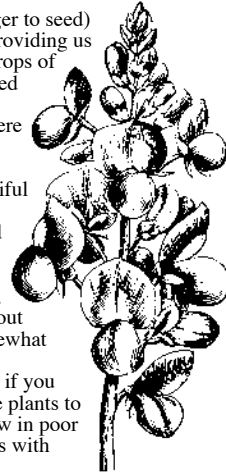
4313TT Titanio (120 days from transplant) An **upland** short-grain brown rice from Italy. Used for risotto with creamy texture and great flavor. Very dense spiraling seed heads. Zone 5a from transplant. ① **NEW!**

A=1g, \$1.00 B=4g, \$3.00 C=28g, \$8.00 D=112g, \$28.00

4314TW Tarwi *Lupinus mutabilis* (130 days, longer to seed)

We thank Gary Kaszas of Fort Fairfield, ME, for providing us with the impetus to offer Tarwi, one of the "lost" crops of the Incas. Years ago he sent us seeds he had accessed from the USDA seed bank for this wild-looking 3' lupine native to the high Andes. In our trials, we were first attracted to its flowers, mostly mountain-sky blue with yellows, reds and whites interspersed. Later we learned that Tarwi, more than just a beautiful ornamental plant, is potentially an important food crop. With a full range of essential amino acids and more than 40% protein, its luminous pearly-white bean-like seeds (2–6 per pod) surpass soybeans nutritionally. They require a long season to mature, and must be soaked and rinsed repeatedly to leach out their bitter alkaloids to make a palatable food, somewhat akin to barley in texture and taste. Start the seed indoors—the young plants are frost sensitive. Even if you lack either the climate or the dedication to grow the plants to seed, all is not lost. These leguminous beauties grow in poor soil, fixing nitrogen and attracting beneficial insects with honey-scented flowers. ~13 seeds/2g packet. ⑤

A=2g, \$2.60 B=6g, \$7.50 C=18g, \$18.00 D=54g, \$40.00



Wheat *Triticum* spp.

See the Wheat section on p. 126 to learn more about winter and spring wheats.

4322BO Black Eagle Spring Wheat OG *T. aestivum* (95 days)

A stunning dual-purpose spring wheat, standing 3' tall in the field with black and white glumes and crisp 3-4" black awns that wowed Nikos the first time she saw it. Harvest early for best ornamental value as its striking color weakens the longer the plants stand in the field. Later, as the kernels fill out and redden, gather the sheaves to thresh, winnow and bake. A 6-row wheat with good straw strength and average yield. Seed originated from Thumbs Heath of the Seed Savers Exchange. ID-certified. ~23 seeds/g. ①

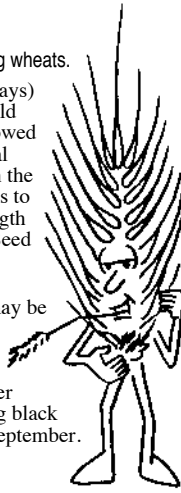
A=7g, \$1.20 B=28g, \$3.00 C=112g, \$5.00

4324UO Utrecht Blue Spring Wheat OG *T. durum* This may be the world's most beautiful wheat (though wheat's forerunner Black Emmer would give it a run for the money). It hardly matters that Utrecht Blue is hard to thresh because it is too beautiful to eat and is used instead for wheat weaving and flower arrangements. Features four rows with blue-grey husks and long black awns. Utrecht is a spring wheat; sow it in April for harvest in September. ID-certified. ~19 seeds/g. ① **BACK!**

A=4g, \$1.40 B=20g, \$4.80 C=100g, \$13.00

4329BK Banatka Winter Wheat ECO *T. a.* An elite winter wheat bred by Eli Rogosa from two superior heritage Eastern European landraces: Ukrainka (originally from Banat, Hungary) described by Russian plant explorer Nikolai Vavilov in the late 1930s as having "high productivity, broad adaptability and excellent baking quality," and Bankuti, beloved for its rich flavor. Also decorative: "Weaves beautifully—isn't wimpy and works well for larger projects," says Kathy Morris of Royalston, MA. Had the highest yield in three years of SARE-funded organic wheat trials at U Mass. See growseed.org for details. In early September, plant each seed 8" apart, 12 lb per acre for the best yield. Wide spacing produces a deep root system that brings up moisture during drought and anchors the plants during torrential rains for better climate resilience. Undersow with clover to suppress weeds. Harvest for flour when the chest-high plants are greenish-brown or for seed when they are brown, dry and fully mature in mid-late July. ~20 seeds/g. ①

A=2g, \$2.20 B=4g, \$4.20 C=14g, \$11.00 D=28g, \$20.00



See chart on page 77 for uses and cultural information. A botanical index appears on page 92.

About medicinal herbs: Archeological evidence dates the medicinal use of herbs back 60,000 years to the Neanderthals. 85% of the world's population employ herbs as medicines, and 40% of pharmaceuticals in the U.S. contain plant-derived materials. Fewer than 10% of higher plant species have been investigated for their medicinal components. Interest in traditional herbal remedies continues to grow.

Statements about medicinal use of plants have not been evaluated by the FDA, and should not be used for the diagnosis, treatment, cure or prevention of any ailment. Before using or ingesting any medicinal plant, consult a healthcare practitioner familiar with botanical medicine.

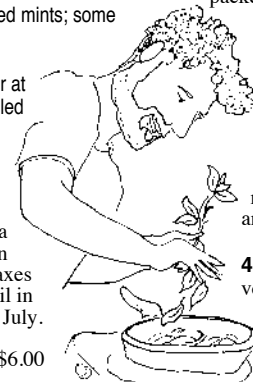
2300 Takinagawa Burdock, **4925** Resina Calendula, as well as oats, mammoth red clover and alfalfa in the Farm Seed section also have medicinal uses. Medicinal herbs such as black cohosh are available as plants from our Trees catalog. **Herbal culture:** Some herbs are customarily grown from divisions because they cannot come true from seed, such as scented thymes and flavored mints; some require fall sowing of fresh seed, such as sweet cicely and angelica.

Drying herbs at home is not difficult. Whole leaves retain their flavor at least a year. To use fresh herbs in cooking, triple the dried quantity called for in a recipe.

We reduced prices on a number of the large sizes last year. These reductions remain in force.

4406AN Anise *Pimpinella anisum* Annual bears seeds with subtle licorice overtones and a spicy warming flavor. Drunk as a tea in the Middle East. Used in baking, an essential ingredient in Springerle. Anise helps ease indigestion, gas and colic, also relaxes dry tight coughs. Plant in average-to-rich well-drained warm soil in full sun after danger of frost. Sets small white umbel flowers in July. Seed ripens in August and September. 1-3' tall. ~200 seeds/g. ②

A=0.5g, \$1.10 B=2g, \$2.50 C=8g, \$3.20 D=40g, \$6.00



Anise Hyssop *Agastache foeniculum* Bushy midwestern native permeates the air with sweet licorice fragrance. An outstanding insectary plant, its long-blooming nectar-laden purple flowers attract bees and parasitic wasps, butterflies and hummingbirds. Anise-scented foliage and flowers delightful as a tea or culinary seasoning, or filler in mixed bouquets. The tea induces sweating and strengthens the heart, was used also for fevers, colds, and by Native Americans as a cough medicine. Sow or transplant 1-1/2' apart in well-drained warm loam. Perennial can grow 3' tall, 2' wide. Vigorous self-sower. Not related to anise or hyssop. Zone 4. ~2,600 seeds/g. ✨

4407AO Anise Hyssop OG MOFGA-certified. ①

A=0.2g, \$1.20 B=1g, \$2.80 C=5g, \$5.50 D=25g, \$14.00

4408AH Anise Hyssop ③

A=0.2g, \$1.20 B=1g, \$2.80 C=5g, \$5.50 D=25g, \$14.00

4409RO Arnica Chamissonis OG *A. c.* Meadow arnica is a native American species that will grow successfully in low-elevation gardens. *A. chamissonis* has been tested and is generally accepted as a substitute for the official European *A. montana*. Use the yellow flowers at full flowering either fresh or dried, in compresses and salves as an external remedy on unbroken skin to reduce swelling and bruising caused by traumatic injury, and on arthritic joints. 20" perennial yields well with multiple flower stalks germinating for most of the early season. Stratify seed and give it light to germinate. Start indoors and transplant into humus-rich soil in full sun. Zone 3. MOFGA-certified. ~2,500 seeds/g. ✨ ①

A=0.02g, \$1.30 B=0.1g, \$3.00

4411WO Ashwagandha OG *Withania somnifera* In Sanskrit its name means 'the vitality of the horse' and it imparts such energy; *somnifera* promotes sleep. An herb of wide value, generally known as the ginseng of Ayurvedic medicine. Upright shrub exceeds 2' with inconspicuous green-to-yellow flowers ripening to red berries. Roots are dried at the end of the growing season and used internally powdered or tinctured (other plant parts are toxic if eaten). Herbalist Deb Soule harvests the roots when the berries ripen in mid-October. Her delightful book, *How to Move Like a Gardener*, (947 in the book section) has more details about ashwagandha. One of the best rejuvenators, especially good for the elderly, it tones without overstimulating and can be used in all conditions of weakness and chronic debilitation. Needs warmth and light to germinate. Sow indoors in the spring and transplant out in June; prefers dry stony soil in sun or partial shade. Perennial in Zone 10, grown as an annual here in the north. OT-certified. ~1,000 seeds/g. ②

A=1g, \$2.00 B=4g, \$6.00 C=12g, \$16.50

4412LO Astragalus OG *A. membranaceus* Safe effective adaptogenic tonic to use daily throughout the year, aiding digestion and promoting immune system health (*wei qi*). Called *huang qi* in Chinese and Chinese Milk Vetch Root in English. Especially good for vegetarians. Also used in cases of exhaustion, food allergy or depression, and to increase assimilation, improve digestion, and eliminate excess fluids. In his book *Healing Lyme* (948 in the book section) Stephen Harold Buhner makes a convincing case that astragalus can prevent and treat the many symptoms of Lyme disease. Small yellow pea-like flowers on upright stems with vetch-like leaves. 1/2-4' perennial. Plant in deep well-drained slightly alkaline soil. Harvest 4- to 6-year-old roots in the fall. Zone 4. OT-certified. ~250 seeds/g. ②

A=0.5g, \$2.00 B=3g, \$6.00 C=9g, \$12.00 D=27g, \$30.00

BASIL *Ocimum basilicum*

~600 seeds/g. Indispensable culinary herb, in cultivation for more than 3,000 years. By far our most popular herb, the various kinds selling over 13,500 packets in 2015.

Culture: Direct seed when soil warms in late spring or transplant after danger of frost in well-drained moderately rich soil. Young seedlings will damp off if heavily watered during cool cloudy weather. Water sparingly at first. Use row covers to enhance early season vigor and speed maturity. Thin to 8-12", top mature plants to induce branching and increase total yield. Harvest before plants blossom. Absolutely intolerant of frost, damaged by temperatures in the 30s.

Diseases: Where so indicated our varieties have been sampled and found to be fusarium-free. While not a guarantee that the entire lot is fusarium-free, a negative test improves the odds. No samples were taken for varieties not so indicated.

Sweet (70 days) The heaviest-yielding variety, recommended for drying, all-around great eating, and large-scale pesto production. We sold 4,500 packets last year of these two strains of Sweet Basil. Bag tag limits seed to a one-time use.

4414SB Sweet Genova strain. Tested for fusarium. On sale. ⑤

A=4g, \$1.30 B=28g, \$3.60
C=112g, \$8.00 D=336g, \$22.00

4415WO Sweet OG WA-certified. On sale. ⑤

A=4g, \$1.70 B=28g, \$5.50
C=112g, \$15.00 D=336g, \$40.00

4418GB Genovese (70 days) The choice of many connoisseurs for making pesto. Also called Perfumed Basil. Leaves are slightly smaller and finer than Sweet Basil with more aroma and potency. ②④

A=2g, \$1.10 B=10g, \$2.50 C=40g, \$6.00 D=160g, \$12.00

4422MB Mammoth No grape leaves available? Lettuce-leaf type has very large ruffled leaves suitable for rolling or stuffing. Flavor similar to sweet basil. Give plenty of space per plant so leaves can dry out after wet spells. However, the smaller types are easier for drying. ②

A=1g, \$1.20 B=7g, \$2.80 C=28g, \$4.80 D=84g, \$13.00

BASIL, continued

4430SG Spicy Globe *O. b. minimum* (70 days)

Marvelous little basil grows to about 8" and maintains a compact mound of light green leaves and white flowers. Its leaves are small, thin and strongly scented. Great as an ornamental border, in a windowbox, or as an indoor potted plant that can be snipped for culinary use. ②③

A=0.5g, \$1.30 B=5g, \$2.80
C=15g, \$6.50 D=60g, \$15.00

4436AB Anise Originally from Persia.

Vigorous mulberry-tinted basil with anise fragrance makes a highly decorative tall bushy plant. Slow to bolt. Great in Italian tomato sauces. Also used in Thai and various Mediterranean cuisines. ②

A=0.5g, \$1.30 B=7g, \$3.00
C=28g, \$7.00 D=84g, \$15.00

Aromato OG Fourteen-fold price increase from our supplier makes it too rich for our blood. *No longer available.*

Lemon OG *O. b. citriodorum* We are dropping this variety because the seed showed too many off-types in our lot grow-out. If you ordered this variety last year and got mostly anise basil instead of lemon, please contact us for a refund. *No longer available.*

4449SD Sweet Dani Lemon (65 days) 1998 AAS for its extraordinary vigor that manifests even in the seedling stage and continues through the summer. Tall upright plant reaching almost 30" is 2-3 times as vigorous as Lemon basil with heavier yields of large light green leaves. Does not need coddling. Tested for fusarium. PVP ⑤

A=0.5g, \$2.00 B=1.5g, \$3.60 C=4.5g, \$8.00 D=13.5g, \$20.00

4450BB Mrs. Burns Lemon (64 days) Chosen for its intense lemony fragrance. Medium-sized bright green leaves. Heirloom variety grown for 60 years in southeastern New Mexico, first offered commercially by Native Seeds/Search, has now achieved nationwide fame. ③

A=0.5g, \$1.30 B=4g, \$3.00 C=20g, \$5.00 D=60g, \$13.50

4453LO Lime OG *O. americanum* (65 days) Imparts a robust lime fragrance to the patch. More vigorous than lemon basil, darker green leaves with a strong lime flavor. CCOF-certified. ③

A=0.25g, \$1.40 B=1g, \$3.20 C=4g, \$6.00 D=16g, \$8.00

Red Rubin (78 days) We have dropped this variety. *No longer available.*

4459RM Round Midnight (65 days) F-1 hybrid. This lustrous purple basil lures you from across the garden with its broad dark lightly ruffled gently serrated leaves wafting a swooning aroma of allspice, nutmeg and light musk. Noting the 12-14" stature and well-branched uniform habit, you bend to pluck a tender leaf. Savory with mild pungency, the flavors dance on your tongue. As weeks follow, Round Midnight slowly reveals spikes of purple flowers. Tested for fusarium. Bag tag limits seed to a one-time use. ⑤

A=0.5g, \$1.80 B=2g, \$4.50 C=10g, \$12.50 D=30g, \$32.00

4461PR Purple Ruffles (85 days) Deep purple plants with serrated and crinkled leaves for striking visual contrast. Imparts attractive color to basil vinegars. Not a vigorous grower in our climate but will reach a height of 18" in peak summer heat. Some plants will have green foliage and in some the green will be mixed with purple. 1987 AAS. PVP expired. ⑤

A=0.25g, \$1.80 B=1g, \$3.50 C=4g, \$8.50 D=12g, \$23.00

4467BO Sacred OG *O. tenuiflorum* (100 days) Also known as tulsi, native to India and used in Indian as well as Thai cuisine. Spicier than other basil and quicker to go to seed, but still usable when covered with purple flowers. Used in Ayurvedic medicine as a poultice on acne, ringworm, eczema and insect bites. Makes a delicious tea, a Fedco staff favorite at break times. Strengthens the immune system and increases oxygen uptake in the brain. Plants stand a bit more cold than other basil. With a superior replacement in the wings, *this is the last year we will carry.* OT-certified. ①

A=0.1g, \$1.40 B=1g, \$3.00 C=7g, \$7.50 D=21g, \$13.00

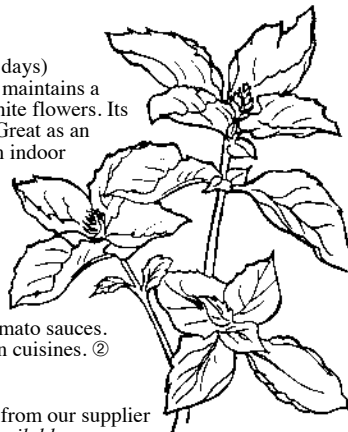
4470TB Thai (60 days) Lends its distinctly strong licorice-anise basil flavor to Thai food. An attractive 12-18" fine-leaved plant with purple stems, seed heads and flowers. Good container plant as well. ②

A=0.5g, \$1.30 B=4g, \$3.00
C=12g, \$5.00 D=36g, \$12.00

4481WO Wild Bergamot OG *Monarda fistulosa*

Our native wildflower species of the familiar bee balm is a great addition to the perennial border in light dry alkaline soils. The 3-4' plants bear aromatic lavender blossoms highly attractive to pollinators. Leaves impart pungent aroma to teas, potpourri, meats and beans. Traditionally used as an aromatic stimulant to improve digestion and increase perspiration. Native Americans employed it internally to combat colds and flus and externally to calm skin eruptions. Zones 3-9. WA, MOFGA-certified. ~2,000 seeds/g. ④ ①

A=0.1g, \$1.40 B=0.4g, \$3.00
C=2g, \$6.50 D=4g, \$11.00



4491BO Borage OG *Borago officinalis* (55 days) Gloria Seigars suggests it as a great border for the vegetable garden where the dense plants smother weeds and attract bees. Bears many small flowers that open blue, turn purple and then pink and make colorful additions to salads. Enjoy the cooling properties of very young leaves on a hot day. Used in cough syrups or frozen in ice cubes to lend cucumber flavor to cold drinks. A nourishing tea for nursing mothers. Seeds a good source of GLAs. Bushy 2-3' annual likes sun, prefers moist well-drained soil, will self-sow. Young plants are easy to move around. Survives light frosts. CCOF-certified. ~50 seeds/g. ④ ③

A=0.5g, \$1.30 B=4g, \$3.00 C=16g, \$5.00 D=80g, \$12.00

4507CW Caraway *Carum carvi* Feathery-leaved 2' biennial grown primarily for its seeds to season soups, stews, breads and pastries. Its leaves are also edible, though milder than the seeds. Direct seed either in early spring or late summer for seeds the second year. Likes full sun, sandy well-drained soil. Will self-sow. Zones 3-9. ~350 seeds/g. ②

A=0.5g, \$1.10 B=7g, \$2.50 C=28g, \$5.50 D=112g, \$11.00

4509NP Catnip *Nepeta cataria* "If you set it, the cats will get it; if you sow it, they won't know it." Hardy perennial, will self-sow once established. Likes rich or sandy soils, tolerates poor soil and drought. Calms mild stomach disorders, produces restful sleep and relieves fever when added to teas. Tovah Martin writes that rats are reputed to despise it, so it is sometimes used as a companion plant for melons and squashes. Researchers at Iowa St. U. who claim catnip is a top-notch mosquito repellent suggest rubbing crushed leaves on the skin is several times more effective than using DEET. Zones 3-8. ~1,400 seeds/g. ④ ④

A=1g, \$1.20 B=7g, \$3.20 C=28g, \$7.00 D=112g, \$14.50

4510BG Bodegold Chamomile *Matricaria recutita* (65 days) Annual, likes moist well-drained soil, can be direct seeded or transplanted. Upright 18-24" plants are higher yielding than German chamomile. This tall variation grows quickly and is easy to harvest. Its aromatic blossoms were opening only three days after Donna Dyrek transplanted it in June and they put on a full show by July 1. Fading in August's heat, they revived with the first autumn rains. Flower heads are ready to gather when the petals fall back from the center. Try using a blueberry rake to harvest them. Chamomile tea calms nerves and soothes the stomach. ~1,750 seeds/g. ③

A=1g, \$1.50 B=3g, \$3.20
C=15g, \$7.00 D=45g, \$15.00

Chervil see 3044-3045.

4512CH Chia *Salvia hispanica* Who hasn't heard the call to sprout these seeds as kitchen kitsch? Now you can grow these ancient delicious seeds into a crop of your own—outdoors, in the ground—though because of their long season, they perform best if started indoors and transplanted out. High in essential fatty acids, the seeds benefit the body by regulating sugar while helping to remove toxins. Eli sometimes bakes them into her fabulous Einkorn bread. Use the leaves either dried or fresh as a tea—or even feed them to your livestock. One caveat: because of Chia's preference for flowering in short-day conditions, there may not be enough time to produce seed in northern areas before the first frost kills the plants. ~160 seeds/g. ③

A=1g, \$1.50 B=3g, \$3.50 C=12g, \$6.00 D=36g, \$12.00

4513CO Chives OG *Allium schoenoprasum* (80 days) Hardy perennial. 1-2' hollow grasslike leaves enhance any dish with their subtle onion flavor, providing a fine treat in very early spring. Lilac-colored flowers bloom in June and July, can be eaten or enjoyed in arrangements fresh or dried. Used in Asia as a remedy for colds and flu. For best production, grow in well-drained soil and divide clumps every few years. However, nearly indestructible even with neglect in extreme conditions. Can be brought inside for the winter. Zone 3. CCOF-certified. ~900 seeds/g. ③

A=0.5g, \$1.40 B=7g, \$3.20 C=28g, \$8.00 D=112g, \$24.00

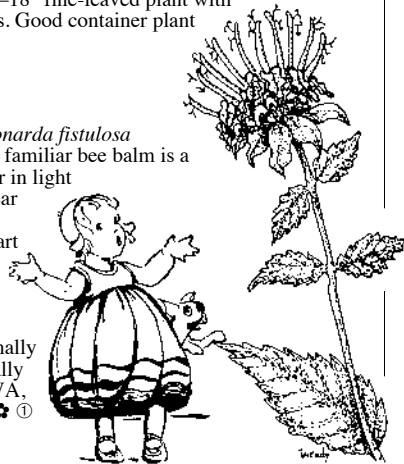
CILANTRO *Coriandrum sativum*
~60 seeds/g. Used for its fresh green foliage, its edible flowers that attract beneficial insects, and its dried seeds—coriander. Essential flavoring in Indian, Chinese, South-east Asian, North African and Latin American cooking. Culture: Annual grows to 2' with whitish blooms. Make succession plantings in average well-drained soil and keep watered for lushest leaf production. Thin early. In warm locations will stand longest as a fall crop.

4517RO Caribe OG (55 days) The best of the ten strains of cilantro in our trial. Longstanding; was barely beginning to flower on July 9. Contract limits seed to a one-time use. OT-certified. ④

A=1g, \$1.10 B=4g, \$2.80 C=28g, \$5.20 D=112g, \$15.00
E=448g, \$48.00

4518SO Santo OG (55 days to leaf; 95 days to seed) Bred for slow bolting. Uniform and fast growing, high yielding with good flavor. Upright habit makes it easy to pick. 71 seeds/g. CCOF-certified. ②

A=1g, \$1.00 B=4g, \$2.50 C=28g, \$4.50 D=112g, \$10.00
E=448g, \$25.00



4520CD Codonopsis *C. pilosula* Also called Poor Man's Ginseng and *dang shen* in China. Perennial to Zone 4. Used in Chinese medicine like ginseng, but considerably easier to grow than true Panax ginseng. Also fun to grow as a novel ornamental. Tendrilly twining vines with small ovate leaves grow to 3-4' long by their second year. Mature vine about 5-6' long. Buds look like green peas, swell to little green balloons, flower as green bells with purple veining, then mature to five-sided-balloon seed pods. Harvest long firm sweet roots with tight skins in autumn at 4-6 years. Used to support energy levels, digestion, immune response, and to clear excess mucus from the lungs. Full sun to part shade, well-drained soil. ~3,700 seeds/g. ②

A=0.02g, \$2.00 B=0.06g, \$5.00 C=0.18g, \$12.00

4522CU Cumin *Cuminum cyminum* (100-115 days) After black pepper, the most widely used spice in the world. Seeds of this culinary cumin are important in flavoring Mexican and Indian cuisine and are said to aid digestion. Foliage is fragrant and ferny, somewhat like dill; but unlike dill, plants grow only 1-2'. Annual, takes a long time to mature so start indoors in cold climates. Our thanks to Lee Cooper for suggesting that we spice up our herb selection with cumin. ~300 seeds/g. ②

A=0.5g, \$1.20 B=1g, \$2.30 C=6g, \$5.00 D=30g, \$8.00

DILL *Anethum graveolens*

~500 seeds/g. Name derived from the Norse *dilla*, meaning 'to lull,' as the plant is said to have soothing properties. Best known in this country for pickling, but essential for Russian, Polish and Hungarian cuisine. Annual, sometimes classed as biennial, grows to 4-5'. Self sows. Upright plant branches out from single stalk; the feathery leaves known as dill weed. Likes well-drained moderately rich soil.

Bouquet Bouquet is usually grown for dill weed production because its leaves are sweeter and more refined than those of Mammoth. Foliage should be harvested early, before seed stalks mature.

4530BU Bouquet (55 days) The biggest, best and fiercest strain of the four in our lot grow-out. ☆ ②

A=4g, \$1.30 B=28g, \$3.20 C=224g, \$12.00 D=448g, \$17.00

4531BO Bouquet OG (55 days) CCOF-certified. ☆ ③

A=2g, \$1.40 B=8g, \$2.80 C=40g, \$5.50 D=200g, \$13.50

4536FL Fernleaf (55 days) 1992 AAS. A dwarf variety suitable for small gardens or patio containers, Fernleaf grows only half as tall as other varieties and is very slow to go to seed. One September, most of our May planting had not yet bolted, and its abundant piquant foliage was still suitable for harvesting. Multi-branching plants spread 18-24". PVP. ☆ ⑤

A=0.5g, \$1.80 B=1.5g, \$3.40 C=4.5g, \$6.50 D=13.5g, \$16.00

4542MM Mammoth Variety generally grown for its seeds. Can also be used as dill weed, but the foliage is slightly darker, coarser and stronger-tasting than that of Bouquet. Otherwise, differences between the two in plant height and habit are barely discernible. ☆ ②④

A=4g, \$1.20 B=28g, \$3.00 C=224g, \$12.00 D=448g, \$20.00

ECHINACEA spp.

~250 seeds/g. Possibly the best-known of the medicinal herbs, widely used as an immune-system stimulant. Species contain slightly differing constituents, but all are antibacterial and antiviral. At least 14 native North American nations used Echinacea for similar purposes: sore throat, toothache, infection, wounds, snake bite and skin disorders. Joanna Linden likes to tincture flowers and leaves in August and use the same alcohol to tincture seeds and third-year roots in October.

A wonderful garden perennial: late summer blooms attract butterflies and bees and make good cutflowers; dew collects in the spiral mandala coneheads.

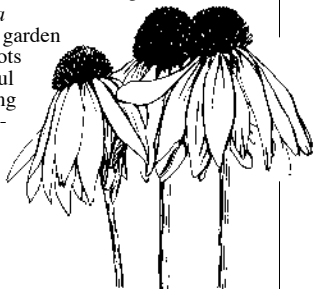
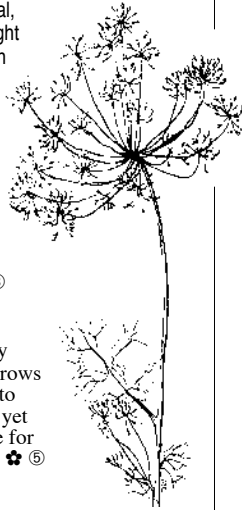
Culture: Start indoors at 70-75°, germinates in 15-20 days. Grow on at 60-65°. Set out 18-24" apart. Zones 3-10.

4545NL Narrow-Leaved *E. angustifolia* Smallest and least vigorous of all the Echinacea species, but the one with the most medicinal tongue-tingling properties. Small taproots can be difficult to harvest. Over-harvesting in the wild by zealous collectors has endangered this species, so cultivate some for your use. Short rose-pink petals, spreading and toothy. Tapered hairy leaf. 6-20" tall. Native to prairies west of the Mississippi, Saskatchewan to Texas. Herbalist Richo Cech suggests stratifying seeds for 30 days. ☆ ①③

A=0.5g, \$1.60 B=1.5g, \$4.00 C=6g, \$8.40 D=24g, \$27.00

4547CO Purple Coneflower OG *E. purpurea* Large, showy, vigorous and hardy, a popular garden perennial since the early 1700s. Large fibrous roots are easy to harvest. Though not a mix, the colorful flowers vary from rose to lavender to purple. Long downward-curving petals around large spiny centers. Broad toothed leaf. Easy-to-grow, 2-4' tall, native to a wide range of habitats, from Appalachian woods to midwest prairies. Often self-sows. OT, MOFGA-certified. ☆ ①②

A=1g, \$1.60 B=4g, \$3.60 C=16g, \$6.60 D=48g, \$16.00



4550EO Elecampane OG *Inula helenium*

Also known as Horseheal, Wild Sunflower and Elf Dock. Large dramatic plant is an excellent lung tonic. Important to the ancient Greeks, said to have sprung from the tears of Helen of Troy, thus its botanical name.

Mucilaginous root relaxes lungs and helps clear mucus, calms cough. Antibacterial and antifungal, also used for asthma, bronchitis, cough and flu, especially in children.

Helpful for scabies, herpes and other skin disorders (an old name is Scabwort). Plant in heavy moist well-drained loam with generous helpings of compost. Dig root in mid fall. 5-8' perennial with 2-3" bright yellow rayed flowers, blooming May to August. Zone 3.

MOFGA-certified. ~1,600 seeds/g. ①

A=0.1g, \$1.60 B=0.3g, \$3.50 C=1.2g, \$6.80 D=3.6g, \$12.00

4551ZO Glossy Epazote OG (50 days) *Dysphania ambrosioides* Annual formerly named *Chenopodium ambrosioides*. As this herb is cited frequently in all my Mexican cookbooks, I searched for years for "a sprig of epazote." At last I grew it myself and stored plenty to last through the winter. Epazote contains terpenes, known for their carminative benefits: think nature's Beano. The flavor adds depth to black bean dishes. But use prudently: a dish that calls for one sprig is not improved with two! This is a refined selection from Frank Morton. Direct seeded in mid-spring, it reaches 18" tall, producing serrated resinous leaves that are used fresh or easily dried. The tiny flowers attract beneficial wasps and syrphid flies. "It re-seeds nicely," says Carolyn Sheehan of Weare, NH. OT-certified. ~6,700 seeds/g. ☆ ①

A=0.1g, \$1.60 B=0.3g, \$4.50 C=1.2g, \$10.00

FENNEL *Foeniculum vulgare*

Perennial grown as an annual with a licorice taste. Tender stalks and leaves are good for relishes, salads and garden munchies; leaves and seeds excellent with fish. May also be grilled, sautéed or steamed. Seeds used in sweets, baked goods & beverages. Aids digestion while reducing flatulence. Can soothe bronchial coughs. **Culture:** Fennel prefers rich well-drained slightly limy soil. Direct seed in late April or early May. Do not allow to dry out. Adequate spacing to 8-12" apart is critical. Has potential as a fall crop hardy to under 20°. Sow in early summer to discourage bolting; keep soil surface moist.

4553PO Perfection OG (72 days) Open-pollinated. Our best-selling new variety in 2013. The acme of Perfection in bulbing fennel, and a good performer in cool soils. Has shown up well in repeated trials, even in warm seasons. Nearly as bolt proof as those pricey hybrids seven times the cost and 5-7 days longer-standing than Zefa, with much thicker bulbs. Our thanks to Eric Schori of Gnarwood Farm in Lempsster, NH, who suggested Perfection. "We may not have the long springs and Willamette River silts of Corvallis, OR, but I've seen Perfection large enough to be used to subdue an ornery moose. I haven't gotten it that big here in the Northeast, but it still makes a superb bulbing fennel even at more modest sizes. Sauté with onions, yellow peppers and a little toasted sesame oil and you may [succumb to] the temptation to keep it all for yourself instead of taking it to market." CO, OT-certified. ~290 seeds/g. ①

A=0.5g, \$1.70 B=3g, \$4.90 C=9g, \$12.00 D=27g, \$30.00

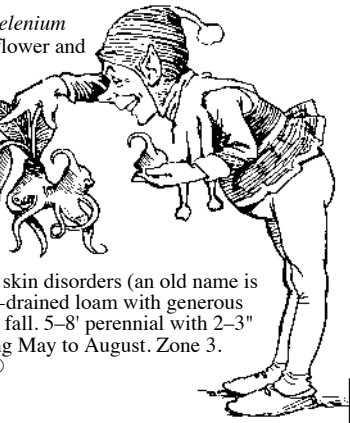
4556ZF Zefa Fino (65 days) Open-pollinated. Bulbing type. 3' with edible blue-green stems and feathery green leaves. Bred at the Swiss Federal Research Station. Compared to some of the traditional Italian varieties such as Montovani, much more resilient under stress and much less likely to bolt. A spring planting will stand till late summer. We advise a second sowing in July for crisp juicy bulbs till October. Thin to approximately 12" apart in 18" rows; overcrowding induces premature bolting. ~200 seeds/g. ③

A=0.5g, \$1.30 B=3g, \$3.00 C=9g, \$7.00 D=27g, \$15.00

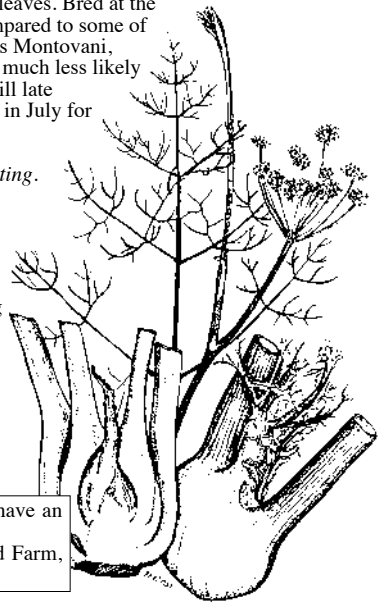
4567BO Bronze OG (65 days)

Open-pollinated. Slow grower with very thin stems valued for its striking feathery bronze foliage. Delicious and decorative. An intriguing addition to mesclun and to flower beds. OT-certified. ~375 seeds/g. ①

A=0.2g, \$1.40 B=0.6g, \$3.00 C=3g, \$5.00 D=30g, \$16.00



HERBS



"Thank you—I love you—you have an immense impact on our farm."
—Anne Grier, Gaining Ground Farm, Leicester, NC

4572FO Feverfew OG *Tanacetum parthenium* Strongly scented bushy 18" plant with beautiful daisy-like white blooms good in bouquets. A tea from the chrysanthemum-like leaves was traditionally used as a relaxant. Chewing regularly on a bitter leaf or two is said to prevent migraines. Sow indoors, set out in average well-drained soil when seedlings have four true leaves. Perennial to Zone 4, maybe 3. Self-sows. ~5,000 seeds/g. WA-certified. ②

A=0.1g, \$1.80 B=0.4g, \$3.60 C=2g, \$8.00 D=8g, \$20.00

4577GC Garlic Chives *Allium tuberosum* Also called Chinese chives or Chinese leeks. Known as *jiu cai* in China. Grows like chives, 1' tall, but has flat strap-like leaves that taste like garlic and can be used as a garlic substitute in salads and sautéed vegetables. White flowers are edible, long-lasting in bouquets and good in dried arrangements. Sow thinly in spring, harvest sparingly till plants are established; after that they are vigorous and self-sowing. Seed is very short-lived. Perennial, but protect in cold areas. Easier than chives to bring indoors for winter. Zone 4. ~210 seeds/g. ②④

A=0.5g, \$1.40 B=14g, \$3.00 C=56g, \$7.00 D=168g, \$18.00

4580HH Horehound *Marrubium vulgare* Perennial forms a 2' bushy stand of grey-green wooly leaves, making a good border. Horehound candies were once common for soothing coughs and the tea makes a strong remedy for coughs and lung congestion. One of the bitter herbs of Passover. Transplant while seedlings are still small or direct seed into light dry sandy soil. Hardy to Zone 3. ~950 seeds/g. ②

A=0.2g, \$1.30 B=1g, \$3.00 C=4g, \$6.00 D=12g, \$12.00

4582HY Hyssop *Hyssopus officinalis* Beautiful aromatic perennial border plant that produces spikes of indigo flowers, traditionally used in cough syrups. Can be planted with rosemary and lavender for a colorful and fragrant effect. Its aroma stimulates alertness and mental clarity. Was used as a strewing herb, thrown on floors to mask odors. Add slightly bitter leaves to salads, soups and stews, or use as an expectorant tea.

People with epilepsy and pregnant women avoid use. Dry light or sandy soil.

Normally hardy to Zone 3, but we have had significant losses in very harsh winters. ~850 seeds/g. ⑤ ②

A=0.5g, \$1.20 B=4g, \$3.00 C=16g, \$6.50 D=48g, \$14.00

4584LM Lady's Mantle *Alchemilla mollis*

I first admired this attractive plant in the lovely gardens at Avena Botanicals. Softly hairy wavy-edged leaves unfold like fans in early spring. Leaves hold rain and dew, sparkling in the early morning light. Alchemists believed the collected dew was the purest water and used it in their preparations; thus its genus name. Bears large loose sprays of tiny greenish-yellow flowers from early summer onward. Makes a good border and ground cover in shady locations. Astringent and regenerative, has a long history as a remedy for women. Seed is short-lived. Oscillating temperatures aid germination which requires 21-30 days. Likes average well-drained soil and moisture; tolerates most conditions. 12-18" perennial, hardy to Zone 3. ~2,600 seeds/g. ③

A=0.05g, \$1.40 B=0.2g, \$3.00 C=1g, \$7.50 D=4g, \$13.00

LAVENDER *Lavandula angustifolia*

~1,000 seeds/g. Famous for centuries for its sweet soothing lasting scent. Flowers used dried in sachets, wreaths and arrangements, and as a tea for headache or exhaustion. Hardy perennial reaching 3', woody shrublike plant with grey-green needle-like foliage and lavender flowers growing on long-stemmed spikes. Attracts small pollinating insects and syrphid flies.

Culture: Likes well-drained alkaline sandy soil. Germinates in 21 days at 60-70°.

4585LO Lavender OG Also known as English lavender. Texts claim hardy to Zone 5, but our patch in Zone 3 survived ten straight winters until the nasty one of 2003-4. ⑤ CCOF-certified. ③

A=0.2g, \$1.50 B=1g, \$3.20 C=5g, \$9.00 D=20g, \$24.00

4586VB Vincenza Blue More compact habit than common lavender with deeper green leaves and a more powerful, less sweet, aroma. 1' plants have bold clustered flower spikes with deep color from mid-July to early September. Flowers the first year without vernalization. Long-day perennial needs full sun. Zone 5. ⑤ ②

A=0.03g, \$2.20 B=0.12g, \$6.00 C=0.6g, \$21.00

4587LG Lemongrass *Cymbopogon flexuosus* Nikos searched for years for this culinary strain of lemongrass, native to Southeast Asia, used in food and medicine there for millennia, and adopted worldwide for the bright lemony flavor it imparts. Coarse grass sets 6-12 harvestable stalks, looking something like pencil leeks, slightly bulbous at the base. Harvest the tough stalks low; the plants will re-grow, though probably only to 3' here in the Mough rather than the 6' achieved in the tropics. Use chopped or ground, fresh, dried or frozen, add to soups, sauces and stir-fries, or make into a delicious medicinal tea to aid digestion. Holli Cederholm reports that it's well worth growing for market: her customers raved about its quality compared to the supermarket's, and a caterer bought it regularly for infusing mixed drinks. Perennial in Zones 9-11, grown as an annual in our climate unless potted up and brought indoors for the winter. Not a great germinator; 40% is considered good. Sow indoors and transplant out 8-12" apart. ~2,000 seeds/g. ②

A=0.1g, \$1.60 B=0.3g, \$3.60 C=1.2g, \$9.00 D=6g, \$18.00

4588LB Lemon Balm *Melissa officinalis* The Greek word *Melissa* means 'honeybee'; the plant in flower attracts them. Perennial growing to 2'. Gather its yellow-green scalloped lemony leaves before plants flower. Delicious in salads, as a tea, with fruit, or dried for sachets. Flowers are edible. Essential oil of lemon balm smells fabulous and is highly effective against cold sores, but is very expensive. Steep multiple batches of leaves in olive oil to make an infused oil, one of the many ways to enjoy this relaxing calming comforting uplifting herb all winter. Likes very well-drained fertile soil; wet ground may winterkill it more than cold. However, tends to self-sow in the same years that the roots winterkill. Zone 4. ~1,800 seeds/g. ⑤ ②

A=0.3g, \$1.30 B=3g, \$3.00 C=15g, \$7.00 D=45g, \$14.00

4589MT Lemon Mint *Monarda citriodora* An annual member of the bee balm genus in the mint family. Native to Appalachia and related to Oswego Tea. The tiered pinkish-purple flower spikes of this showy 2-3' plant are long-lasting in fresh bouquets and can be dried for everlasting arrangements. Its lemon-scented leaves are delicious and commonly used to impart a coarse mint flavor with a hint of oregano to tea. Inhale the steam to relieve cold symptoms. Best in light moist soil. ~1,800 seeds/g. ⑤ ②

A=1g, \$1.30 B=7g, \$3.20 C=28g, \$7.50 D=84g, \$21.00

4590LC Licorice *Glycyrrhiza glabra* Sweet and soothing root contains glycosides similar to the body's own natural steroids. Beneficial for revitalizing adrenal glands, good for colds and bronchitis, reduces throat irritation, yet an expectorant and anti-spasmodic. Adds sweetness, harmony and palatability to nearly every herbal combination. Give plants lots of room so they can create the roots and runners you want. Weak competitor against weeds. Prefers sandy well-drained loam and a mulch to prevent heaving. Harvest 3-4 year-old roots in the fall. Perennial to Zone 4, grows 1 1/2-4', bears white to violet flowers. ~90 seeds/g. ②

A=0.1g, \$1.80 B=0.3g, \$4.40 C=0.9g, \$9.00 D=4.5g, \$32.00

4592LV Lovage *Levisticum officinale* An underrated herb with many uses. Leaves have a strong celery taste and can flavor soups, stews and casseroles. Crush seeds and add to bread and pastries; candy stems and roots in sugar syrup. Said to restore the appetite and revive the love of life. Second-year plants are best for drying. Formerly used to mask the bitter herbs in medicinal concoctions. Umbelliferous perennial attracts beneficial insects, grows 3-6' and makes a dramatic architectural element in a decorative border. Likes moist rich deep well-drained soil. Zone 4. ~140 seeds/g. ⑤ ②

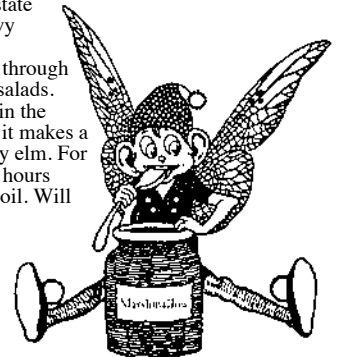
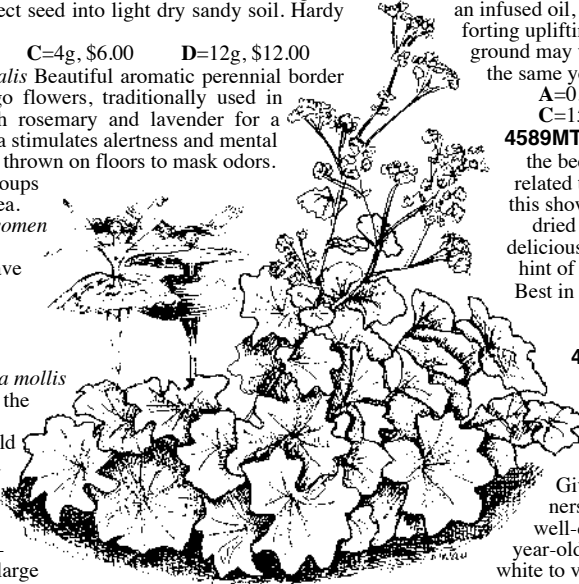
A=0.5g, \$1.30 B=4g, \$3.20 C=16g, \$7.00 D=48g, \$12.50

4615SM Sweet Marjoram *Origanum majorana* (80-95 days) Grown as an annual in the North. 1' plant with grey-green rounded leaves of enchanting sweet fragrance. Cut often to prevent flowering. Use fresh or dried. Adds flavor to soups, stews and stuffings. Subject to damping off; do not overwater. Likes well-drained dry soil. ~4,000 seeds/g. ④

A=0.5g, \$1.60 B=2g, \$3.50 C=8g, \$8.00 D=32g, \$16.50

4619MM Marshmallow *Althaea officinalis* Cousin to the hollyhock, used to soothe and soften irritated skin and membranes and to relieve stuck hacking coughs. Also mildly stimulates white blood cell production and relieves urinary tract infections and prostate problems. Harvest root of this 4-6' showy perennial in autumn of the third year. Meanwhile, enjoy the attractive flowers through the summer or eat the velvety leaves in salads. All mallows contain soothing mucilage in the root, and marshmallow has the most, so it makes a great home-garden substitute for slippery elm. For tea, steep roots in cold water for several hours rather than boiling. Plant in cool moist soil. Will self-sow. Zone 4. ~600 seeds/g. ③

A=0.4g, \$1.50 B=1.2g, \$3.50 C=6g, \$8.00 D=24g, \$17.00



4630TO Milk Thistle OG *Silybum marianum* Named for the bold white splashes on its glossy leaves, said to be from Mary's milk. Fast-growing 3-5' annual with leaves up to 8x24". Native to the Mediterranean. Use young leaves cooked or in spring salads; remove spines first! Flower stalk puts out large purple thistle flowers that were eaten like artichokes. Silymarin, found in the flowers and seeds, has been used to strengthen and regenerate liver tissue. Will self-sow; keep gloves handy to pull unwanted volunteers before they get big and prickly. May present a way to outwit raccoons: Chris Mazur of Apple River, IL, planted some around his sweet corn patch, and the coons ravaged the rest of his garden, but did not molest his corn. Likes dry soil, very tolerant of drought. MT, OT-certified. ~40 seeds/g. ①②

A=1g, \$1.10 B=4g, \$2.80 C=28g, \$6.60 D=112g, \$16.00

4632CM Common Mint *Mentha spicata* Specific types of mint won't come true from seed. This is the common tea mint. Can be grown directly in pots indoors in winter. Keep it in containers to check its invasive tendencies. Likes moist soil, full sun or partial shade. Perennial to Zone 4. ~12,000 seeds/g. ③

A=0.2g, \$1.50 B=1g, \$3.20 C=4g, \$8.00 D=16g, \$27.00

4640MO Motherwort OG *Leonurus cardiaca* Hardy perennial of the mint family grows 2-4' with dull green leaves having a pungent odor and rather bitter taste. Good bee plant. Pick flowering tops for tea or herbal tincture. Believed to strengthen the heart muscle and relieve nervous tension. Used by women during life transitions. Readily self-sows even in relatively poor soil; pull up unwanted first-year basal rosettes before they put out their spiky flower stalk the second year. Zone 3. WA-certified. ~1,200 seeds/g. ☆ ①

A=0.2g, \$1.70 B=1g, \$4.00 C=3g, \$10.00 D=9g, \$25.00

4642YM Yellow (White) Mustard Seed (70-85 days) *Sinapis alba* The variety of mustard most familiar to American palates, but pallid without the addition of turmeric. If you plant a scant dozen, they should yield enough to make at least a couple batches of prepared mustard. Or alternately, toast the seeds in a fry pan until they pop, and then grind into spicy mixtures. As easy to grow as the leafy mustards. Harvest seeds as soon as pods begin to turn tan. Pods open once the seeds are dry. Spice up those cold winter nights! Annual. *Cannot ship sizes C and D to the Willamette Valley.* ~145 seeds/g. ③

A=1.5g, \$1.20 B=6g, \$2.80 C=24g, \$6.00 D=96g, \$12.00

4644SO Stinging Nettle OG *Urtica dioica* Biodynamic gardeners use nettles to increase the potency of neighboring herbs, and to stimulate humus formation. An indicator of very fertile soil where it volunteers. Young shoots and leaves are delicious steamed as spring greens, very high in minerals. Also makes a great hair rinse or dry chicken feed. Choose your spot carefully; the spreading rhizomes as well as the leaves can sting and the plants will take over any patch of annuals. Cooking or drying removes the sting. Plant in damp rich soil with high nitrogen content; especially likes composted manure piles or the leaky side of your lushest compost bin. Chill the seed before sowing to improve germination. Takes 10-14 days to come up and grows 3-6'. Perennial. Zone 2. MOFGA, OT-certified. ~6,000 seeds/g. ①②

A=0.2g, \$1.50 B=0.6g, \$3.00
C=2.4g, \$7.00 D=7.2g, \$14.00

OREGANO *Origanum* spp.

The oregano genus has more than 50 species. The ancient Greeks gave it its name, meaning 'joy of the mountains.' These fragrant plants grow on steep rocky alkaline hills, filling Mediterranean mountainsides with their joyful cheer and intense scent. Not only has oregano flavored foods for thousands of years, but it also has medicinal uses, from relieving rheumatism and asthma to decongesting stuffy head colds.

Culture: Low-growing perennial with fragrant dull green and purple leaves and white flowers. Start indoors in spring for best results. Likes sun and light well-drained alkaline soil. Will lose potency if soil is overfed. Harvest when it is beginning to flower. Zone 4. Survives some, but not all, winters in Zone 3.

4648GR Greek Oregano *O. heracleoticum* This is the true culinary herb for Greek and Italian cooking, and a close relative of **4615** Marjoram. ~9,000 seeds/g. ②

A=0.2g, \$1.50 B=1g, \$3.30
C=5g, \$6.00 D=20g, \$20.00

4649ZO Zaatar Oregano OG *O. syriacum*

This oregano carries a bit of zing and is a necessary ingredient in the condiment zaatar. Mix with sumac, toasted sesame seeds, salt and sometimes a few other herbs to make the sprightly topping so essential to Middle Eastern cuisine. Bushy tender perennial, hardy to Zone 10, grown as an annual in colder climes. For most aromatic flavor, harvest before its small white flowers appear. Start seeds indoors or sow directly in the ground just prior to the last spring frost. Bag tag limits seed to a one-time use. AGRIOR-certified. ~4,650 seeds/g. ③

A=0.02g, \$2.20 B=0.08g, \$4.80 C=0.24g, \$9.00 D=0.96g, \$30.00

Parsley see 3158-3170.

4651PR Pennyroyal *Mentha pulegium* Native to Europe, across the Mediterranean into Persia. Hardy aromatic ground cover notorious for its insect-repellent properties: can be used to ward off mosquitoes and to repel fleas from pets. Makes a potent tea. Pennyroyal's distilled oil can be toxic, but the tea rinse is safe for external use. *Caution: Pregnant women should not use.* Plant 6" apart to make a dense mat. The plants creep with only the lavender flower stalks rising above the ground. Perennial in the mint genus likes rich well-drained soil with good moisture. Mulch for winter protection in Zones 4 and 5. ~12,000 seeds/g. ③

A=0.2g, \$1.60 B=0.6g, \$3.80 C=1.8g, \$8.00 D=5.4g, \$16.00

4654RR Rhodiola *R. rosea* Perennial, Zones 1-5. Also called Arctic Root or Rose Root. Succulent with small chartreuse-yellow flowers at the top of the stems in late April to early May. Circumpolar native grows in Russia, Siberia, Scandinavia and the Maritime provinces into Downeast Maine. Eat the leaves in salads, cook young shoots and enjoy like asparagus. North American Indians fermented the rose-scented roots before eating them. One of the best adaptogens, counters stress and fatigue, and strengthens the immune system. Stratify seed for six weeks, then gently press seed into flats. Grow on in the greenhouse; small plants grow slowly and are sensitive to conditions too wet or too dry. Transplant out 12" apart anytime the ground is workable. Best in sunny location in dry, rocky soil but fairly adapted to any well-drained soil. Control weeds until plants size up. Grows 1-3' tall. Roots harvestable after 3 years, though after 4-5 years will provide more mass. ~3,900 seeds/g. ②

A=0.01g, \$2.20 B=0.03g, \$5.50 C=0.12g, \$15.00

4657RO Rosemary OG *Rosmarinus officinalis* From the Latin *ros marinus* meaning 'dew of the sea,' a reference to its native habitat, the Mediterranean coasts. Beloved tender perennial growing to 3-4'. Cannot withstand temperatures below 17°, may be overwintered indoors if kept cool and moist. Try near a cool basement window and keep misted. Dark grey-green needle-like leaves impart a robust resinous flavor. Rosemary clippings are said to repel slugs. Blossoms range from deep blue to pale pink. Likes dry alkaline soil; peat pots are too acidic. Not a good germinator—30% is average. Zone 8. CCOF-certified. ~800 seeds/g. ③

A=0.2g, \$3.30 B=0.6g, \$9.00 C=1.8g, \$19.00 D=7.2g, \$70.00

4659RU Rue *Ruta graveolens* Also known as Herb-of-Grace. Very attractive perennial with blue-green foliage and delicate yellow flowers. Used as an insect and deer repellent. Its leaves, aromatic and bitter, contain iron and rutin for strengthening blood and vessels. Used in eyewash to soothe tired eyes and relieve eyestrain. *Rue should never be ingested by pregnant women.* Several herbalists warn that large doses can cause pain and vomiting; also contact dermatitis in sensitive individuals. Ancients rubbed their arms in olive oil before harvesting to prevent irritation. Likes poor soil and needs good drainage. 18-24" tall. Zone 3. ~450 seeds/g. ②

A=0.5g, \$1.20 B=2g, \$2.80 C=8g, \$6.00 D=24g, \$12.00

4664BS Broadleaf Sage *Salvia officinalis* Grows up to 3', with fuzzy grey-green oblong leaves and blue flowers. Used fresh or dried. Tasty in stuffing blends, with eggs, cheese, poultry, pork. CR and Eli use it to enhance black tea and coffee.

Sage tea dries up mothers' milk and helps reduce hot flashes. Likes well-drained rich soil with good nitrogen content. Perennial plants grow woody with age; replace every 3 years or so. Zone 4, but only one of our five plants survived the harsh winter of 2003-4. Did not mind the tough 2014-15 winter in Zone 5. ~125 seeds/g. ☆ ②④

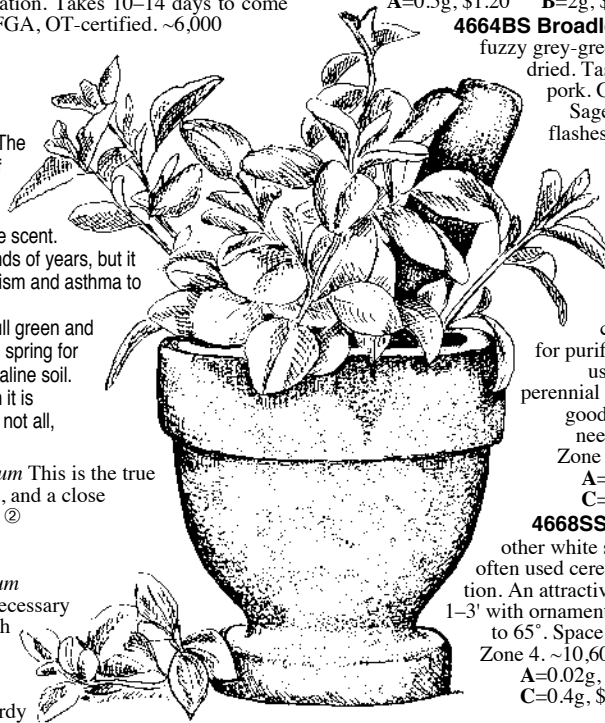
A=1g, \$1.40 B=4g, \$3.20
C=16g, \$6.00 D=48g, \$15.00

4666WS White Sage *S. apiana* An important ceremonial herb for Native Americans who use it for purification. Leaves can be smoked, taken as a tea, or used for smudge sticks and in sweat lodges. Bushy perennial with thick stems and dusty grey-green foliage. A good bee plant. Not nearly as hardy as common sage; needs heavy protection to overwinter in our climate. Zone 6. ~700 seeds/g. ☆ ②

A=0.05g, \$2.00 B=0.2g, \$5.00
C=1g, \$8.00 D=5g, \$25.00

4668SS Silver Sagebrush *Artemisia ludoviciana* The other white sage, easier to grow than **4666** White Sage. Most often used ceremonially as a smudge for cleansing and purification. An attractive landscape plant as well, growing to a height of 1-3' with ornamental silver foliage. Sow in spring when soil warms to 65°. Space plants 1 1/2' apart. Can spread. Perennial hardy to Zone 4. ~10,600 seeds/g. ②

A=0.02g, \$1.40 B=0.1g, \$3.30
C=0.4g, \$6.60 D=2g, \$18.00



Supplier Codes Know where your seed comes from! See page 4 for details.

- ① Small seed farmers including Fedco staff.
- ② Family-owned companies or cooperatives, domestic and foreign.
- ③ Domestic and foreign corporations not part of a larger conglomerate.
- ④ Multinationals not to our knowledge engaged in genetic engineering.
- ⑤ Multinationals who are engaged in genetic engineering.
- ⑥ Manufacturers of neonicotinoids: Bayer and Syngenta.

4669SB Salad Burnet *Sanguisorba minor* Toothed oval leaves add a mild cucumber flavor to salads, soups, vinegars and cold drinks. Also used to soothe sunburn or eczema. Perennial, reaching 1' makes a nice edging plant, starts growing early spring and stays green till snowfall. Sow spring or autumn. Cut back flower and seed stalks to encourage leaf growth. Zones 4–8. ~175 seeds/g. ②

A=1g, \$1.30 B=7g, \$3.40 C=28g, \$6.80

4672SS Summer Savory *Satureja hortensis* (70 days)

Annual grows to 1½' with narrow dark green leaves and lavender flowers. Cut often during growing season, before blossoms appear. Sow after last frost in well-drained soil next to beans, their complement in the kitchen as well. Use with dry or green beans, rice, stuffings, or in onion soup. Left to bloom, it is beautiful in fall with dark purple foliage and lavender flowers. ~1,700 seeds/g. ②

A=1g, \$1.20 B=14g, \$3.30
C=56g, \$6.60 D=224g, \$17.00

4674WS Winter Savory *S. montana*

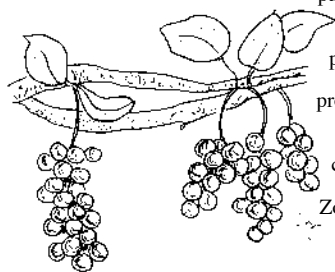
Leaves shinier and thicker, stronger and more pungent than summer savory. Used to flavor dry beans or sauerkraut, winter soups and stews. Hardy bushy perennial grows 6–12", thriving in dry poor soil. Start indoors 8–10 weeks before last spring frost date; transplant after danger of frost. Makes an attractive border with its tiny green leaves and light lilac flowers. Also used as a tea to calm indigestion or as a gargle for sore throat. Zone 3. ~2,000 seeds/g. ③

A=0.1g, \$1.50 B=0.4g, \$3.50 C=2.4g, \$6.50 D=9.6g, \$12.00

4677SH Schisandra *S. chinensis* Also called Magnolia Vine. Highly ornamental deciduous woody vine, to 25', with tiny pinkish-white flowers that produce clusters of aromatic red berries in late summer. Called *wu wei zi* in China, meaning 'five-flavor fruit,' combining sweet, sour, bitter, salty and spicy. Can be eaten raw, cooked, dried, tinctured or made into wine. Traditionally used to treat asthmatic and other chronic coughs, insomnia and palpitations, schisandra is also adaptogenic,

anti-inflammatory and immune enhancing. A wonderful choice for the permaculture garden. Dioecious; male and female plants are needed for fruit production. Stratify seed in sphagnum moss for 3–4 months before starting in early spring. Grows well on a trellis but will climb most anything. Prefers well-drained soil in full to dappled shade. Perennial, Zone 4. Sold by seed count. ~45 seeds/g. ②

A=10 seeds, \$2.20
B=40 seeds, \$6.60
C=160 seeds, \$19.00



Shiso *Perilla frutescens* See 3282-3283.

4681BS Baikal Skullcap *Scutellaria baicalensis* Beautiful little perennial with myriad small violet monkshood-shaped blooms on a 1–2' subshrub. Looks like a shiny rosemary with slender ovate leaves. A definite candidate for the rock garden, it tolerates drought and grows best in light well-drained soil. Important as the Chinese herb *huang qin*, 3–4 year roots are dried and used as a bitter cooling sedative that lowers fever, blood pressure and cholesterol levels while stimulating the liver; also used to stop bleeding. To encourage the roots' optimal medicinal powers, pinch buds and don't let flowers bloom. Zone 3. ~250 seeds/g. ✪ ②

A=0.1g, \$2.80 B=0.3g, \$8.00 C=1.2g, \$28.00

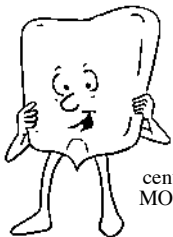
4682KO Mad-dog Skullcap OG *S. lateriflora* Often called

Virginia Skullcap, native spreading 1–2' perennial needs moist rich soil and likes partial shade. Herbalists use it as a headache remedy, great for insomnia and both calms and strengthens the nervous system. Flowering tops of skullcap are used in daily teas as well as formulas for chronic conditions. Called Mad-dog because the tea was once used as a folk remedy for rabies. Enjoy its numerous small blue flowers from July through September or put the leaves in a pillow to induce restful sleep. Hardy to Zone 4. MOFGA-certified. ~500 seeds/g. ①

A=0.05g, \$2.00 B=0.2g, \$6.60 C=0.8g, \$25.00 D=2.4g, \$42.00

4683SO Spilanthes OG *S. oleracea* Known to herbalists as the toothache plant. Spilanthes' tingling and mouth-numbing properties appear rapidly and last a while. Also known as Salad Cress, it was introduced from Brazil to North America in the 1860s and listed as Para Cress in seed catalogs a century ago. Use its bronzy-purple leaves in salad or chew the leaves and flowers for temporary pain relief. Its immune-stimulating properties are giving it a wider audience. Highly frost-sensitive annual. Used as a ground cover in the south, it adds unusual beauty with its low growth habit and its cute rayless yellow flowers with red-orange centers. Makes a colorful border planting in fertile moist soil. MOFGA-certified. ~3,000 seeds/g. ①

A=0.02g, \$1.80 B=0.08g, \$4.40 C=0.32g, \$8.80



There is no criterion by which to recognize what is a color, except that it is one of *our* colors.

—Ludwig Wittgenstein

4684ST Stevia *S. rebaudiana* (100–120 days) As sweet as it gets, stevia is several hundred times sweeter than sugar, but without the calories. It is used fresh, dried, powdered or in a liquid as a sugar substitute. Stevia grows into a bushy 2' plant with serrated leaves and white flowers in late summer. Pinch it back for greater bushiness and higher yields. An erratic and finicky germinator, the seed needs light.

Likes heat so should not be transplanted outdoors until nights stay above 50°. Work compost into well-drained soil or raised beds. Perennial in Zone 9, so treat as an annual or bring indoors in a container. Ironically, it retards plaque and inhibits tooth decay. Seed has short longevity; order only a 1-year supply. ~3,100 seeds/g. ②

A=0.01g, \$2.40 B=0.04g, \$6.40 C=0.2g, \$28.00

4686TS Topas St Johnswort *Hypericum perforatum* Pretty

yellow flower of fields and meadows turns tinctures and oils deep red. Used as tea, tincture or infused oil for many nerve disorders, from neuralgia and sciatica to mild depression, seasonal affective disorder and chronic exhaustion. The infused oil is also cooling to sunburn and cuts, soothing to strained joints and muscles. Frequent use can cause

photosensitivity. Compared to generic St Johnswort, Topas is an

improved strain for commercial production, much earlier (blossomed first year from seed), more floriferous with a higher content of hypericin. Seedlings grow slowly. Prefers well-drained dry soil; very drought tolerant but essential oil levels increase with some moisture. 1–3' perennial hardy to Zone 3. We cannot ship to North Dakota or California where it is considered a noxious weed. ~7,000 seeds/g. ③

A=0.1g, \$1.40 B=0.5g, \$3.50 C=2g, \$6.50 D=8g, \$16.00

4687GT German Thyme *Thymus vulgaris* Creeping 10–12" mat-forming perennial brings depth of flavor to soups, gravies, casseroles. Said to calm the nerves, soothe headaches. As good in salad dressings as it is in sore-throat remedies. Bees love its short lavender flower spikes. Likes well-drained light dry alkaline soil. Its fine root system makes thyme difficult to move around the garden. Hardy to Zone 4. ~4,000 seeds/g. ✪ ④

A=0.2g, \$1.40 B=3g, \$3.60 C=15g, \$7.50 D=45g, \$17.50

Valerian *Valeriana officinalis* Known as Nature's Tranquilizer or Herbal Valium, valerian root is used to reduce tension and anxiety, alleviate insomnia, and relieve muscle spasms and cramping. Harvest roots in the fall of the second or later year. Early Greeks referred to valerian as *phu* (like our "pew") because of the distinctive fetid musky smell of the roots. Avoid high doses for prolonged periods. Tall leafy 3–5' perennial with clusters of honey-scented pale pink flowers. Remove flowers to hasten root development. Plant in moist fertile soil about 1' apart. Zone 4. ~800 seeds/g.

4689VL Valerian ③

A=0.2g, \$1.60 B=0.6g, \$3.60

4690VO Valerian OG MOFGA-certified. ①

A=0.1g, \$1.90 B=0.6g, \$4.00 C=2.4g, \$7.50 D=7.2g, \$14.00

4692BO Blue Vervain OG *Verbena hastata* This 5–6' perennial grows naturally in moist thickets and meadows and will do well in similar garden conditions, sending up many terminal spikes of bristly blue-violet flower clusters the entire season. Although scraggly, it blends very well with many kinds of flowers by stretching its spikes amongst them. Herbalist Gail

Edwards finds it "a powerful spiritual presence" and nervous system tonic. Similar to *V. officinalis*, but more alterative, vervain acts mainly on the liver and lungs. Its roots are more active than its leaves. Likes light well-drained moist soil. Zone 3.

WA-certified. ~2,500 seeds/g. ①

A=0.1g, \$1.50 B=0.4g, \$3.30
C=4g, \$14.00 D=12g, \$32.00



4698SW Sweet Woodruff *Galium odoratum* A lovely

ground cover for shaded areas, its whorls of pointed leaves covered with clusters of tiny snowy-white spring flowers. Vanilla-scented leaves are essential in Maybowl, a traditional German punch, and also used in potpourris. Said to be helpful for migraine, nervous conditions and stomach pain. Drying increases its clover fragrance. A classic strewing herb in the Middle Ages used to purify the church, dining hall and bedrooms with its coumarin-rich fragrance. Sow outdoors in a woodland site or in a heavy layer of well-rotted leaf mulch. Can be very slow to germinate—up to 200 days—and then may not be visible right away because the plants grow by underground rhizomes. Be patient—woodruff will appear the following spring and grow 6–8" tall. Perennial, Zone 5. ~160 seeds/g. ③ **BACK!**

A=0.2g, \$1.50 B=0.6g, \$3.20
C=2.4g, \$7.00 D=7.2g, \$15.00

4699WY White Yarrow *Achillea millefolium* Flat-topped white flowers bloom June–August with an odd alluring scent that attracts bees, butterflies and beneficials. One of the most popular herbs for colds and flu. A hot cup of tea from leaves and flowers induces a sweat to throw off heat and toxins. Also used to stanch internal and external bleeding. Avoid large doses during pregnancy. Perennial grows 1–2', spreads slowly, preferring lean soil. Rich garden soil may produce lush 3' plants that need staking. Zone 2. See 4802–4804, p. 93, for ornamental yarrows. ~5,000 seeds/g. ✪ ②

A=0.1g, \$1.10 B=1g, \$2.80 C=14g, \$7.00 D=56g, \$18.00

Directions for ordering SEEDS

- Please use a current catalog. Prices, item numbers and availability change! Need a current catalog? Call (207) 426-9900.
- Order only seeds 200-5999 on seeds form, *no potatoes, cover crops, supplies or books*. Moose Tubers order form on page 81, OGS page 83.
- You may send in separate forms from more than one division at the same time and pay with one check. Figure totals for each division on its proper form, then add division totals to figure grand total.
- Please write clearly in **pen**, not pencil.
- Please keep a copy of your order and send us the original.
- Use the correct item number with its two-letter suffix, not the item name.
- Write the code letter for the packet size, not the weight.
- Please **subtotal each column** and total your order even if paying by credit card.
- We will charge your credit card when we receive your order. We will send you a bill or a refund for any adjustments as each order is completed.

Delivery

UPS/Priority Mail

- **Free shipping for seed orders over \$30 (items 200-5999).**
- We ship via UPS ground or USPS Priority Mail; our choice, based on weight.
- We pull & ship orders based on the date received. No special rush service.
- If you'd like us to hold your order for a later shipping date, please attach a note to your order form or a comment to your online order.
- We ship to Canada. Online orders only.

Ordering Schedule

- **Peak season:** Jan-March 24: Orders accepted online or by mail.
- **Off-Peak season:** March 25-Oct 31: For fastest service we encourage online ordering.
- **Hiatus:** November 1: No orders accepted till new catalog is out; website ordering shut down.

Shipping Schedule

- **We begin daily shipping of seed orders on January 4.**
- Jan-April: Daily shipping.
- May-Oct: Twice weekly shipping. For quickest turnaround time order online by noon Monday or Wednesday.

Pickup

Come to our warehouse in Clinton. See the map on page 85.

Seeds: January-October We will send a confirmation email or postcard with directions and your order number when your order is ready to pick up (within 1 week of receipt of order). Pick up at our warehouse, **Tues, Weds, & Thurs only, 9:00-3:00.** Sorry, no other days, except Tree Sale.

Tree Sale pickup Friday & Saturday, Apr. 28-29 (preorder customers only), and May 5-6 (Public Tree Sale) 9:00-3:00 each day. Order by April 19. *Note:* Seed orders will be at the Seeds warehouse up the hill, not at Trees' warehouse.

Group orders

We will pull and package each group member's order separately and ship all to **one address**. Discounts apply to one division, combined totals. You may not combine orders from different divisions to qualify for a higher discount.

We accept group orders **online**. Group coordinators can find details at our website. Go to the Seeds page and click on Group Ordering.

Or use the **mail** and bundle individual orders with a summary form for each division with address information and totals. Please keep copies.

How to prepare a summary form:

- Attach a separate summary page for **each division** (Seeds, MT, OGS, Trees). Use an order form with no items on it, fill in name and address blanks and totals information. See example.
- A summary form without individual totals is acceptable.
- Please use **one method of payment** for each division order. You may combine totals for all divisions and send one check. Please include credit card number and expiration date on summary form for each division.
- Figure all discounts from subtotal. See example.
- We treat all add-ons as additional orders.

Group coordinators' responsibilities:

- Collect individual orders and payments from group members.
- Make sure each item of each individual order is on proper form (for example, no potatoes on the seeds form); make necessary corrections.
- Add up order subtotals for each division. Keep track of individual payments and settle with group members after the final shipment.
- Bundle orders for each division with a summary and one payment and mail to us.
- Receive and distribute back-ordered items.
- Send us corrections for any errors in group order.

Fedco Seeds' substitution policy

We ask when you order whether you will accept substitutions. We will make substitutions where necessary rather than out-of-stock you, *unless you decline substitutions on the form*. If you don't specify, we sub.

- **If you ordered a snow pea, we will substitute a snow pea.** We will choose a very similar snow pea of comparable maturity date, height, color if available, but will substitute any other snow pea we have if necessary. **If we have no other snow peas, we will not substitute a shell pea, bean or anything else.**
- We will substitute hybrids for open-pollinated varieties only when that is our sole alternative.
- If we have to sub a more expensive variety, we won't charge you more.
- If we run out of organically produced seed we will substitute high quality conventional seed for the same variety unless you instruct us otherwise.
- If we run out of conventional seed we may substitute organically produced seed for the same variety, but charge you only the conventional seed cost.
- We are sorry that we cannot honor specific substitution requests.

Discounts

See the order form on the facing page. Additional orders over \$50 qualify for prior (or largest) discount, if they are to the same address.

Handling Charges

All seed orders under \$30 **including pick-ups** add \$5 handling charge. This charge applies regardless of how much you ordered from other divisions. We treat **add-ons as separate orders subject to the \$5 charge.**

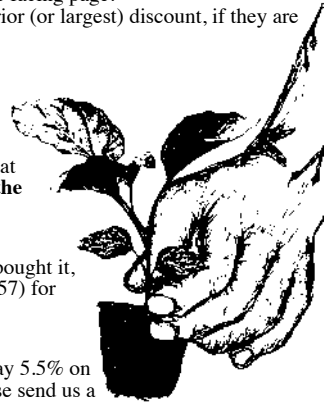
No Returns

No returns or exchanges of seed. If you bought it, it's yours! See limited guarantee (page 157) for defective products only.

Sales Tax

Maine residents and pickup customers pay 5.5% on **all seed**. Maine farms and retailers: Please send us a copy of your state resale certificate or farm exemption. Otherwise we must charge sales tax.

There is no sales tax on orders shipped outside of Maine.



Backorders are items not available at time of shipment that come in later. We try to minimize them.

- For orders with only one A-size or B-size packet on backorder who accept substitutions, we will substitute for rather than backorder those items.
- Early orders have the most backorders.
- We ship backordered items needing an early start ASAP after we receive them. We batch *other* backordered items to reduce our shipping costs.
- We fill orders received after March 10 from available remaining stock. No backorders.
- We will ship all backorders by March 24. Please contact us if you are still missing any backorders or have not received a refund by April 7.

Form including label CC# 009900 Ordering closes October 31, 2017.

Form or Group Name: Eat Your Rainbow Farm **Fedco Seeds 2017**

Deliver to: Name: Roy G. Biv PO Box 520

City/State: 900936 Dusty Rows Lane Clinton ME 04927

Town: Terra Rossa St. CO Zip 80660

By UPS include total money:

Town: _____ St. _____ Zip _____

Phone: 400-780-1234 email: garden@thruhub@veggiecolours.org

Order Items 200-5999 only. Please use pen, *not* pencil. *Books, cover crops & supplies use the OGS order form, p. 83*

| ex | 3993EX | A | Z | 000 | Start with #1. Skip spaces on #s for crosscodes | ex | 41 | M | 42 | O | 43 | M | 44 | A | 45 | P | 46 | B | 47 | P | 48 | H | 49 | R | |
|--------|--------|--------|--------|--------|---|--------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Item # | Item # | Item # | Item # | Item # | Item # | Item # | Item # | Item # | Item # | Item # | Item # | Item # | Item # | Item # | Item # | Item # | Item # | Item # | Item # | Item # | Item # | Item # | Item # | Item # | Item # |
| 1 | | 21 | | | | 41 | Madie Youta | | | | | | | | | | | | | | | | | | |
| 2 | | 22 | | | | 42 | O Kerr | | | | | | | | | | | | | | | | | | |
| 3 | | 23 | | | | 43 | Matt Black | | | | | | | | | | | | | | | | | | |
| 4 | | 24 | | | | 44 | Ali Zarin | | | | | | | | | | | | | | | | | | |
| 5 | | 25 | | | | 45 | P. Greene | | | | | | | | | | | | | | | | | | |
| 6 | | 26 | | | | 46 | Barbara Burr | | | | | | | | | | | | | | | | | | |
| 7 | | 27 | | | | 47 | Pearl E. White | | | | | | | | | | | | | | | | | | |
| 8 | | 28 | | | | 48 | Hoff White | | | | | | | | | | | | | | | | | | |
| 9 | | 29 | | | | 49 | Rube E. Reid | | | | | | | | | | | | | | | | | | |

See substitution policy on p. 78. Yes No

Will you accept substitutions? Yes No

Will you accept conventional for organic seed? Yes No

Are you a market grower? Yes No

Is this your 1st seed order from the 2017 catalog? Yes No

Delivery Options: check one only

UPS Priority Mail: order by 10:31

Pickup: order by 10:31

Order by 10/31/17

Order Total = **231.25**

Adjusted Total = **231.25**

Maintainers and pickups only: 5.5% Sales Tax = **12.72**

Subtotal = **275.30**

Adjusted Total = **41.30**

Member Discount = **2.75**

Adjusted Total = **231.25**

Vat \$5 if Adjusted Total for Seeds is under \$30

No handling charge for orders over \$50

Order Total = **231.25**

Estimated MOBA Fee (see p. 7)

MOBA Fee = **25.00**

MOBA or MOBA memberships only (see p. 7)

Grand Total = **256.25**

MOBA checks payable to Fedco

from mailing label: CC- _____

Ordering closes October 31, 2017.

Fedco Seeds 2017

PO Box 520

Clinton ME 04927

Farm or Group Name _____

Deliver to: Name _____

for US Mail _____

Town _____ St _____ Zip _____

for UPS (include road name) _____

Town _____ St _____ Zip _____

phone _____ email _____

Order Items 200-5999 only. Please use pen, not pencil.

Books, cover crops & supplies use the OGS order form, p. 83

| ex | 3993EX | A | 2 | 0.00 | Start with #1. Skip spaces only for crossouts. | | | | | | | | | | | |
|----|----------------|-------------|-----------|-------|--|----------------|-------------|-----------|-------|--|----------------|-------------|-----------|-------|--|--|
| | Catalog Number | Size Letter | # of Pkts | Total | | Catalog Number | Size Letter | # of Pkts | Total | | Catalog Number | Size Letter | # of Pkts | Total | | |
| 1 | | | | | | 21 | | | | | 41 | | | | | |
| 2 | | | | | | 22 | | | | | 42 | | | | | |
| 3 | | | | | | 23 | | | | | 43 | | | | | |
| 4 | | | | | | 24 | | | | | 44 | | | | | |
| 5 | | | | | | 25 | | | | | 45 | | | | | |
| 6 | | | | | | 26 | | | | | 46 | | | | | |
| 7 | | | | | | 27 | | | | | 47 | | | | | |
| 8 | | | | | | 28 | | | | | 48 | | | | | |
| 9 | | | | | | 29 | | | | | 49 | | | | | |
| 10 | | | | | | 30 | | | | | 50 | | | | | |
| 11 | | | | | | 31 | | | | | 51 | | | | | |
| 12 | | | | | | 32 | | | | | 52 | | | | | |
| 13 | | | | | | 33 | | | | | 53 | | | | | |
| 14 | | | | | | 34 | | | | | 54 | | | | | |
| 15 | | | | | | 35 | | | | | 55 | | | | | |
| 16 | | | | | | 36 | | | | | 56 | | | | | |
| 17 | | | | | | 37 | | | | | 57 | | | | | |
| 18 | | | | | | 38 | | | | | 58 | | | | | |
| 19 | | | | | | 39 | | | | | 59 | | | | | |
| 20 | | | | | | 40 | | | | | 60 | | | | | |

VEGETABLE, HERB & FLOWER SEEDS

our use only ↓

Please subtotal

Please subtotal

Please subtotal

Delivery Options: check one only
 UPS/Priority Mail order by 10/31
 Pickup: order by 10/31

See substitution policy on p. 78 - Yes No
 Will you accept substitutions?
 Will you accept conventional for organic seed?
 Are you a market grower?
 Is this your 1st seed order from the 2017 catalog?

page 79

page 80

Subtotal

Deduct Volume Discount

Deduct 1% consumer membership discount from Subtotal (see p. 89)

Adjusted Total

Mainers and pickups only: 5.5% Sales Tax

Add \$5 if Adjusted Total for Seeds is under \$30
No handling charge for orders over \$30

Order Total

Donate to MOFGA (see p. 7)
We will match your donation up to \$20

MOFGA or NOFA memberships only (see p. 34)

Grand Total

Make checks payable to Fedco

We accept Visa, MasterCard, Discover or American Express

Exp. Date

| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Fedco Seeds 2017 items 200-5999, pages 4-111 only

| | Catalog Number | Size Letter | # of Pkts | Total | | Catalog Number | Size Letter | # of Pkts | Total | | Catalog Number | Size Letter | # of Pkts | Total |
|-----|----------------|-------------|-----------|-------|-----|----------------|-------------|-----------|-------|-----|----------------|-------------|-----------|-------|
| 61 | | | | | 107 | | | | | 153 | | | | |
| 62 | | | | | 108 | | | | | 154 | | | | |
| 63 | | | | | 109 | | | | | 155 | | | | |
| 64 | | | | | 110 | | | | | 156 | | | | |
| 65 | | | | | 111 | | | | | 157 | | | | |
| 66 | | | | | 112 | | | | | 158 | | | | |
| 67 | | | | | 113 | | | | | 159 | | | | |
| 68 | | | | | 114 | | | | | 160 | | | | |
| 69 | | | | | 115 | | | | | 161 | | | | |
| 70 | | | | | 116 | | | | | 162 | | | | |
| 71 | | | | | 117 | | | | | 163 | | | | |
| 72 | | | | | 118 | | | | | 164 | | | | |
| 73 | | | | | 119 | | | | | 165 | | | | |
| 74 | | | | | 120 | | | | | 166 | | | | |
| 75 | | | | | 121 | | | | | 167 | | | | |
| 76 | | | | | 122 | | | | | 168 | | | | |
| 77 | | | | | 123 | | | | | 169 | | | | |
| 78 | | | | | 124 | | | | | 170 | | | | |
| 79 | | | | | 125 | | | | | 171 | | | | |
| 80 | | | | | 126 | | | | | 172 | | | | |
| 81 | | | | | 127 | | | | | 173 | | | | |
| 82 | | | | | 128 | | | | | 174 | | | | |
| 83 | | | | | 129 | | | | | 175 | | | | |
| 84 | | | | | 130 | | | | | 176 | | | | |
| 85 | | | | | 131 | | | | | 177 | | | | |
| 86 | | | | | 132 | | | | | 178 | | | | |
| 87 | | | | | 133 | | | | | 179 | | | | |
| 88 | | | | | 134 | | | | | 180 | | | | |
| 89 | | | | | 135 | | | | | 181 | | | | |
| 90 | | | | | 136 | | | | | 182 | | | | |
| 91 | | | | | 137 | | | | | 183 | | | | |
| 92 | | | | | 138 | | | | | 184 | | | | |
| 93 | | | | | 139 | | | | | 185 | | | | |
| 94 | | | | | 140 | | | | | 186 | | | | |
| 95 | | | | | 141 | | | | | 187 | | | | |
| 96 | | | | | 142 | | | | | 188 | | | | |
| 97 | | | | | 143 | | | | | 189 | | | | |
| 98 | | | | | 144 | | | | | 190 | | | | |
| 99 | | | | | 145 | | | | | 191 | | | | |
| 100 | | | | | 146 | | | | | 192 | | | | |
| 101 | | | | | 147 | | | | | 193 | | | | |
| 102 | | | | | 148 | | | | | 194 | | | | |
| 103 | | | | | 149 | | | | | 195 | | | | |
| 104 | | | | | 150 | | | | | 196 | | | | |
| 105 | | | | | 151 | | | | | 197 | | | | |
| 106 | | | | | 152 | | | | | 198 | | | | |
| | | | | | | | | | | 199 | | | | |
| | | | | | | | | | | 200 | | | | |

Please Subtotal

Please Subtotal

Please Subtotal

If you need more blanks, please photocopy, download from our website, fedcoseeds.com,
or call 207-426-9900 for another copy.

page 80

Moose Tubers 2017

PO Box 520
Clinton ME 04927

from mailing label CC _____
Farm or Group Name _____
Name _____
Address _____
Town _____ State _____ Zip _____

Deliver to: (if different from above) _____
Town _____ State _____ Zip _____
phone _____ email _____

Potatoes and onion sets, items 7000-7999, pages 112-119

Order online: fedcoseeds.com

| | Item# | Size | How many | Variety | Price each | Weight Total | \$ Total |
|--|-------|------|----------|---------|------------|--------------|----------|
| | 1 | | | | | | |
| | 2 | | | | | | |
| | 3 | | | | | | |
| | 4 | | | | | | |
| | 5 | | | | | | |
| | 6 | | | | | | |
| | 7 | | | | | | |
| | 8 | | | | | | |
| | 9 | | | | | | |
| | 10 | | | | | | |
| | 11 | | | | | | |
| | 12 | | | | | | |

For Early Shipment Potatoes, Sweet Potatoes and Ginger: order by March 3. See p. 116.

page 81

Delivery Options one

- UPS** order by 4/14
- Tree Sale Pickup** order by 4/14
- Common Carrier** for delivery by tractor-trailer. Be sure to include a daytime phone number or email. week for delivery:
Additional charge for straight truck or lift-gate. Call for a quote 207-426-8247.
 April 5-7
 April 10-14
 April 17-21
 after May 1

| | | |
|--|--------------------------|--------------------------|
| See substitution policy on p. 112 | Yes | No |
| Will you accept substitutions? | <input type="checkbox"/> | <input type="checkbox"/> |
| Will you accept conventional for organic seed? | <input type="checkbox"/> | <input type="checkbox"/> |

Volume Discounts
(orders received by March 3)
5% over \$200
10% over \$400
15% over \$850
If you order over 1000 lbs download or call for our bulk price list.

1% Member Discount from subtotal (p.89)

Adjusted Total =

Mainers and pickups only **5.5% tax** +

Shipping, use chart below +

Donate to **Scatterseed** (p.113) +

Grand Total =

page 82 +

Subtotal =

Volume Discount -

weight p.81

weight p.82

total weight

- Donate all my refund to Scatterseed (p. 113)
- up to \$5.00
- up to \$2.00

Make checks payable to **Fedco**

Final Order Deadline **4/14/17**

| If your order weighs | 0-2 lbs. | up to 5 lbs. | up to 10 lbs. | up to 15 lbs. | up to 20lbs. | up to 25 lbs. | up to 30 lbs. | up to 35lbs. | up to 40 lbs. | over 40 lbs. | over 200 lbs. | over 500 lbs. | For larger orders, consider Common Carrier. Up to 2000 lbs: ME \$88.00 MA, NH & RI \$100.00 VT \$100.00 CT \$110.00 NY(not NYC & LJ) \$125.00 NJ \$150.00 PA \$135.00 For other locations call us at 207-426-8247 for more information. |
|--------------------------------|----------|--------------|---------------|---------------|--------------|---------------|---------------|--------------|---------------|--------------|---------------|---------------|---|
| And your zip code begins with: | | | | | | | | | | | | | |
| 038-049 | 6.20 | 13.80 | 15.00 | 18.00 | 19.00 | 20.10 | 21.10 | 22.00 | 22.20 | 53¢/lb | 47¢/lb | 43¢/lb | |
| 010-037, 050-069, 119-136 | 6.20 | 14.30 | 16.70 | 18.00 | 19.20 | 20.60 | 21.50 | 25.20 | 25.20 | 62¢/lb | 54¢/lb | 50¢/lb | |
| 004-005, 070-118, 137-232 | 6.20 | 15.20 | 17.00 | 18.00 | 19.20 | 21.20 | 23.30 | 26.00 | 27.00 | 68¢/lb | 57¢/lb | 52¢/lb | |
| 233-298, 400-499, 600-619 | 6.20 | 15.80 | 18.30 | 20.00 | 22.20 | 23.70 | 28.80 | 31.40 | 31.60 | 79¢/lb | 67¢/lb | 57¢/lb | |
| 299-399, 500-574, 620-687 | 6.20 | 16.10 | 19.00 | 21.60 | 24.60 | 28.20 | 33.30 | 38.30 | 38.30 | 96¢/lb | 77¢/lb | 67¢/lb | |
| 575-593, 688-778 | 6.20 | 16.70 | 21.20 | 24.90 | 29.80 | 33.60 | 39.30 | 43.60 | 43.70 | 1.10/lb | 87¢/lb | 74¢/lb | |
| 779-961, 970-994 | 6.20 | 17.60 | 24.60 | 26.40 | 31.40 | 36.40 | 43.70 | 46.00 | 49.50 | 1.24/lb | 97¢/lb | 83¢/lb | |
| AK, HI & Priority Mail | 6.20 | 17.60 | 24.60 | 26.40 | 31.40 | 36.40 | 43.70 | 53.60 | 58.60 | 2.04/lb | | | |

We accept Visa, MasterCard, Discover or American Express

Exp Date

| | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

We charge your card when we receive your order.

Moose Tubers 2017, items 7000-7999, pages 112-119

POTATOES

| | Item | Size | How many | Variety | Price each | Weight Total | \$ Total |
|----------------|------|------|----------|---------|------------|--------------|----------|
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| 31 | | | | | | | |
| 32 | | | | | | | |
| 33 | | | | | | | |
| 34 | | | | | | | |
| 35 | | | | | | | |
| 36 | | | | | | | |
| 37 | | | | | | | |
| 38 | | | | | | | |
| 39 | | | | | | | |
| 40 | | | | | | | |
| 41 | | | | | | | |
| 42 | | | | | | | |
| 43 | | | | | | | |
| 44 | | | | | | | |
| 45 | | | | | | | |
| 46 | | | | | | | |
| 47 | | | | | | | |
| 48 | | | | | | | |
| 49 | | | | | | | |
| 50 | | | | | | | |
| 51 | | | | | | | |
| 52 | | | | | | | |
| 53 | | | | | | | |
| 54 | | | | | | | |
| 55 | | | | | | | |
| page 82 totals | | | | | | | |

Organic Growers Supply 2017

PO Box 520

Clinton ME 04927

from mailing label CC _____

Farm or Group Name _____

Name _____

Address _____

Town _____ State _____ Zip _____

Deliver to: (if different from above) _____

Town _____ State _____ Zip _____

phone _____ email _____

Organic Growers Supply, items 8000 and up, pages 120-158

Order online: fedcoseeds.com

| Item | How many | Description | Weight Each | Weight Total | Price Each | \$ Total |
|------|----------|-------------|-------------|--------------|------------|----------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

Delivery Options ✓ one only

UPS/Priority Mail

Pickup on _____ (date)

Tree Sale Pickup order by 4/21

Common Carrier for delivery by tractor-trailer. Be sure to include a daytime phone number or email.

Additional charge for straight truck or lift-gate. Call for a quote 207-426-8247.

Volume Discounts

- 5% over \$200
- 10% over \$400
- 15% over \$800
- 20% over \$1600
- over \$2500 call

Early Bird Discount
Order before Jan 1, 2017, for delivery or pickup before Jan 15, 2017, and take an additional 5% discount. (Does not apply to bulk pricing.)

Help support MOFGA!

Donate all my refund to MOFGA or

- up to \$5.00
- up to \$2.00

We will match your donated refund.

I am a MOFGA member

See page 7 or 121 for details.

weight p.83

weight p.84

total weight

We charge a \$5.00 restocking fee if you return an item you don't want.

Make checks payable to **Fedco**

| | |
|---|----------|
| | page 83 |
| | page 84 |
| | Subtotal |
| Volume Discount | - |
| 1% Member Discount from subtotal (p.89) | - |
| Adjusted Total | = |
| Mainers and pickups only 5.5% tax | + |
| Shipping, use chart below | + |
| Donate to MOFGA (p.121) | + |
| Grand Total | = |

| If your order weighs ☞ | 0-2 lbs. | up to 5 lbs. | up to 10 lbs. | up to 15 lbs. | up to 20lbs. | up to 25 lbs. | up to 30 lbs. | up to 35lbs. | up to 40 lbs. | up to 40 lbs. | over 40 lbs. | over 200 lbs. | over 500 lbs. | For larger orders, consider Common Carrier. Up to 2000 lbs: |
|--------------------------------|----------|--------------|---------------|---------------|--------------|---------------|---------------|--------------|---------------|---------------|--------------|---------------|---------------|---|
| And your zip code begins with: | | | | | | | | | | | | | | |
| 038-049 | 6.20 | 13.80 | 15.00 | 18.00 | 19.00 | 20.10 | 21.10 | 22.00 | 22.20 | 53¢/lb | 47¢/lb | 43¢/lb | | ME \$88.00 |
| 010-037, 050-069, 119-136 | 6.20 | 14.30 | 16.70 | 18.00 | 19.20 | 20.60 | 21.50 | 25.20 | 25.20 | 62¢/lb | 54¢/lb | 50¢/lb | | MA, NH & RI \$100.00 |
| 004-005, 070-118, 137-232 | 6.20 | 15.20 | 17.00 | 18.00 | 19.20 | 21.20 | 23.30 | 26.00 | 27.00 | 68¢/lb | 57¢/lb | 52¢/lb | | VT \$100.00 |
| 233-298, 400-499, 600-619 | 6.20 | 15.80 | 18.30 | 20.00 | 22.20 | 23.70 | 28.80 | 31.40 | 31.60 | 79¢/lb | 67¢/lb | 57¢/lb | | CT \$110.00 |
| 299-399, 500-574, 620-687 | 6.20 | 16.10 | 19.00 | 21.60 | 24.60 | 28.20 | 33.30 | 38.30 | 38.30 | 96¢/lb | 77¢/lb | 67¢/lb | | NY(not NYC & LI) \$125.00 |
| 575-593, 688-778 | 6.20 | 16.70 | 21.20 | 24.90 | 29.80 | 33.60 | 39.30 | 43.60 | 43.70 | 1.10/lb | 87¢/lb | 74¢/lb | | NJ \$150.00 |
| 779-961, 970-994 | 6.20 | 17.60 | 24.60 | 26.40 | 31.40 | 36.40 | 43.70 | 46.00 | 49.50 | 1.24/lb | 97¢/lb | 83¢/lb | | PA \$135.00 |
| AK, HI & Priority Mail | 6.20 | 17.60 | 24.60 | 26.40 | 31.40 | 36.40 | 43.70 | 53.60 | 58.60 | 2.04/lb | | | | For other locations call us at 207-426-8247 for more information. |

We accept Visa, MasterCard, Discover or American Express

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| <input style="width: 20px; height: 20px;" type="text"/> | <input style="width: 20px; height: 20px;" type="text"/> | <input style="width: 20px; height: 20px;" type="text"/> | <input style="width: 20px; height: 20px;" type="text"/> | <input style="width: 20px; height: 20px;" type="text"/> | <input style="width: 20px; height: 20px;" type="text"/> | <input style="width: 20px; height: 20px;" type="text"/> | <input style="width: 20px; height: 20px;" type="text"/> | <input style="width: 20px; height: 20px;" type="text"/> | <input style="width: 20px; height: 20px;" type="text"/> | <input style="width: 20px; height: 20px;" type="text"/> | <input style="width: 20px; height: 20px;" type="text"/> |
|---|---|---|---|---|---|---|---|---|---|---|---|

Exp Date

Organic Growers Supply 2017, items 8000 and up, pages 120-158

| | Item | How many | Description | Weight Each | Weight Total | Price Each | \$ Total |
|----------------|------|----------|-------------|-------------|--------------|------------|----------|
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
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| 48 | | | | | | | |
| 49 | | | | | | | |
| 50 | | | | | | | |
| 51 | | | | | | | |
| 52 | | | | | | | |
| 53 | | | | | | | |
| 54 | | | | | | | |
| 55 | | | | | | | |
| page 84 totals | | | | | | | |

SUPPLIES & BOOKS



To Order Supplies & Cover Crops from Organic Growers Supply

- Find OGS products on pages 120-158.
- We take orders year-round and ship every week.
- Order **online** at fedcoseeds.com, or **mail** the order form on page 83.



OGS Discounts

- No deadlines for discounts or for ordering.
- See chart on order form, page 83. Orders over \$2500, call for a quote.
- Repeat OGS orders over \$50 qualify for volume discounts, now based on order totals over a rolling 12-month period. If you expect to order over \$2500 retail value in a 12-month period, contact Alice at 207-426-8247 or alice@fedcoseeds.com for bulk pricing.

OGS Shipping

- Prices do not include shipping. See shipping chart on order form, page 83.
- We prefer to ship via UPS ground for small orders, but sometimes use USPS Priority Mail for orders under 3#. Shipping to Alaska & Hawaii is all by Priority Mail.
- If you don't get UPS delivery at home, please arrange delivery elsewhere. If we cannot ship by UPS, use the Priority Mail rates.
- Is your order over 300#? Please see **Truck Shipping** info below left.
- Live in the Northeast? Try our **Depot** shipping program! Details p. 159.

Pick up your order at our warehouse

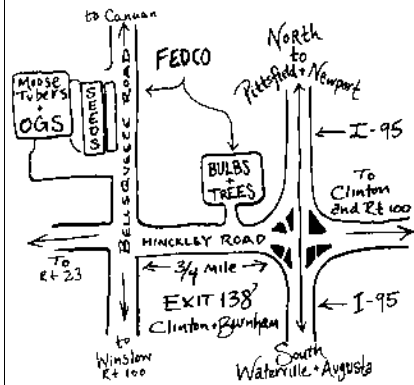
- You may pick up your Organic Growers Supply order at our warehouse at 688 Bellsqueeze Rd in Clinton, ME. Please indicate your planned pickup date on your order form. We will contact you if there are any inventory problems.
- The warehouse is open Tuesday, Wednesday and Thursday from 9-3.
- Consider simply coming to shop instead of placing a pickup order.
- OGS orders also may be picked up at the 2017 Fedco **Tree Sale**, Fri and Sat, Apr 28 & 29 and May 5 & 6, from 9-3. Place your order by April 20 for Tree Sale pickup at the OGS warehouse.
- We do pull Tree Sale pickup orders in advance.

Walk-in Sales

- The OGS warehouse is **open year-round Tuesday, Wednesday and Thursday from 9 until 3** (barring national holidays or companywide meetings—exceptions are posted on our website).



To pick up at our warehouses:



Order online at fedcoseeds.com

- for faster turnaround
- to ship to a depot
- to view
 - warehouse-only items
 - drop-shipped items
 - items arriving too late to get into this catalog
- to get the latest information on pricing and availability

Sales tax: No tax on orders shipped out of state. Tax applies to Maine addresses and pickup customers only! All items are taxable.

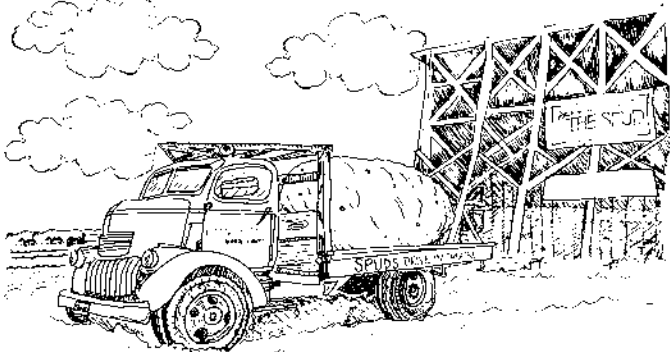
Maine farmers: Please send us a copy of your state resale certificate or farm exemption. Otherwise we must charge sales tax.

Truck Shipping: Do You Have What It Takes?

For orders over 300# consider delivery by **Common Carrier**. Please see the chart on page 83 for rates. Delivery is by a tractor-trailer with a 53' box. We have flat rates for New England and NY for pallets weighing up to 2000#. If you need a straight truck or lift-gate there is a significant surcharge. For a quote, call or email, ogs@fedcoseeds.com.

Shipping by common carrier can save you oodles of dough, but it's not as simple as shipping with UPS. Before you ask us to ship by truck, please note the following requirements:

- (1) Can your road and driveway accommodate an 18-wheeler and allow it to turn around? Commercial truck drivers are skilled, but they are not superhuman. If you cannot accommodate a semi, we can request a more maneuverable straight truck with some carriers, but it will cost you an additional \$50 or so.
- (2) Can you mechanically unload a pallet from the back of a truck, or do you have a well-constructed loading dock at the proper height? If not we will need to request a lift gate, for a fee of \$50-150 depending on the carrier.
- (3) Can you arrange to be at home when your order is delivered? Freight companies won't just drop an order on your doorstep. We ask our freight companies to contact our customers before delivery so that you know when to expect your order.



To Order from Moose Tubers

- Find Moose Tubers products on pages 112-119.
- Order **online** at fedcoseeds.com
- Or **mail** the order form on page 81.

Moose Tubers Discounts

- See chart on order form, page 81.
- To qualify for volume discounts orders must be received by **March 3**.
- For amounts over 1000#, please download a bulk price list, or call or write.

Moose Tubers Deadlines

Orders received by: qualify for:

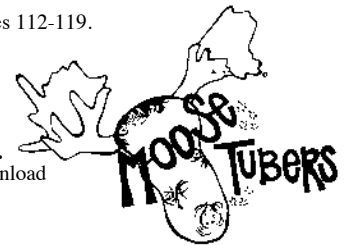
- | | |
|----------------|---|
| March 3 | Volume discounts, March shipment of Early Shipment items, best potato selection, early April shipping |
| April 14 | Final orders for small bags |
| after April 14 | Limited inventory of varieties still available, in 50# bags at bulk prices, updated regularly online. |

Moose Tubers Shipping

- **Main-season shipping of Moose Tubers begins in early April.** We cannot ship before that; please do not ask us to do so.
- Onion plants are drop-shipped based on planting zone. See p. 114.
- March shipping is available on select **early shipment** items ONLY: early shipment potatoes (list on p. 113); ginger and sweet potatoes. We will begin shipping these select items in early March, when weather permits.
- Most small orders ship via UPS Ground. See the shipping chart on the order form (page 81) for rates.
- We ship by **Common Carrier** beginning April 3. (Please see **Truck Shipping** info on left.)
- We ship according to planting zones during the month of April.
- Moose Tubers orders shipped to **Depots** will be sent in the April delivery.

Moose Tubers Pickup

- Orders will be ready for pickup at the Tree Sale on Fri and Sat, April 28 & 29 and May 5 & 6, from 9-3. We'll send a postcard with directions and your order number. If you need your order earlier, call to make arrangements.



ORDERING SUPPLIES AND POTATOES

Certified Organic Seed

Fedco Seeds is a certified organic processor under the National Organic Program. Our facilities are inspected by MOFGA Certification Services. Each variety labeled as organic in our catalog has been certified by a USDA-approved agency. By maintaining an audit trail and careful procedures we ensure that our certified organic seed will not be contaminated.

If you buy organic seed because you are a certified grower, save your invoice and your packet labels so you can keep track of lot numbers to maintain your own audit trail.

The NOP rule requires organic growers to use certified-organic seed whenever it is commercially available. While in practice it still leaves a wide range of choices, certifiers have been interpreting it increasingly strictly, though they differ in what constitutes a good faith effort to locate organic seed. Consult your certifier for their specific seed requirements.

In response, we continue to expand our range of suppliers and our offerings of certified-organic varieties.

Sustainably Grown Seed

All seed in our catalog offered as certified organic comes from certified farms. Even farms grossing under \$5,000 that would otherwise be exempt from certification must get certified for us, as a processor, to label their product "certified organic."

Believing it essential to the democracy and self-reliance of our agricultural community and to our integrity as a seed supplier, we have painstakingly built our network of small seed growers over the past 25 years. Most of our growers use farm and seed revenues to supplement income from other jobs. Many gross less than \$5,000 farming.

Although most practice sustainable farming methods conscientiously, some eschew certification for a variety of reasons, ideological, economic and otherwise. In this catalog we are using the ecological label **ECO** after the variety name to describe uncertified seeds grown without pesticides, herbicides or chemical fertilizers in gardens and on farms which maintain an active soil-building program. Often this seed is as sustainably grown as the certified-organic seed. We hope you will continue to support both certified organic and **ECO** growers with your purchases.

We use the label **BD** for those varieties certified biodynamically grown. Some varieties have both biodynamic and organic certification and so will have the symbol **OG/BD**.



Organics in the Catalog

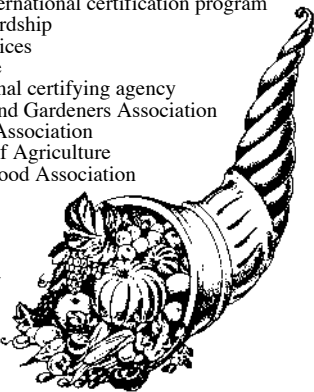
We list all available organic selections in this section. All variety descriptions (organic and otherwise), sizes and prices are in the main body of the catalog beginning on page 4. Sometimes we offer both conventional and certified organic seed of the same variety.

Things to know about ordering organic:

- All organic catalog letters end with the letter 'O.' No conventional ones do.
- Organic always costs the same or more than conventional.
- If you change your mind between an organic and conventional selection of the same variety please change three things on your order: 1) the item number 2) the item letters 3) the price.

OG after cultivar name = entire lot is certified-organic seed. The certifying agency is listed in the copy. Abbreviations are:

- AB:** L'Agence Bio, a French certifying agency
- AGRIOR:** an Israeli organic inspection agency
- Atlantic:** Atlantic Certified Organic (Canada)
- BSO:** Baystate Organic Certifiers (Massachusetts)
- CCOF:** California Certified Organic Farmers
- CO:** Colorado Department of Agriculture
- CU:** Clemson University Organic Certification Program (S. Carolina)
- Ecocert:** an international organic inspection agency
- FVO:** Farm Verified Organic, an international certification program
- IA:** Iowa Department of Land Stewardship
- ICS:** International Certification Services
- ID:** Idaho Department of Agriculture
- LACON:** Germany-based international certifying agency
- MOFGA:** Maine Organic Farmers and Gardeners Association
- MOSA:** Midwest Organic Services Association
- MT/MTDA:** Montana Department of Agriculture
- OEFFA:** Ohio Ecological Farm & Food Association
- OT:** Oregon Tilth Certified Organic
- QCS:** Quality Certification Services (Florida)
- Stellar NOP:** the certifying arm of Demeter, the international agency certifying biodynamically grown crops.
- VT/VOF:** Vermont Organic Farmer
- WA/WSDA:** Washington State Department of Agriculture



CERTIFIED-ORGANIC VARIETIES

All open-pollinated unless otherwise noted. See main body of catalog, beginning on page 4, for descriptions, available sizes and prices for all our varieties and for section headers containing cultural information and sundry facts. For organic cover crops, see pp. 122-126.

STORE RACKS

5953 and 5954 See page 111.

Beans

Phaseolus vulgaris

- 205PO Provider
- 225BO Royal Burgundy
- 231JO Jade
- 262GO Golden Rocky
- 277DO Dragon Langerie
- 281GO Golden Gate



Consult our website for the availability of other OG bush beans including Maxibel and Gold Rush and pole beans Northeast and Fortex.

Fava Beans *Vicia faba*

299WO Windsor

Dry Beans

- 331CO Silver Cloud Cannellini
- 344JO Jacob's Cattle
- 356YO Calypso
- 371CO True Red Cranberry Pole
- 388SO Saturday Night Special

Soybeans *Glycine max*

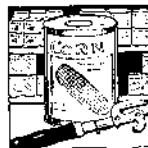
- 489UO Sumo
- 490TO Tankuro
- 491FO Shirofumi
- 492SO Sayamumume
- 493MO Giant Midori



CORN

Zea mays
Sweet Corn

- 516AO Ashworth
- 544HO Top Hat
- 636LO Luther Hill
- 652TO Tuxana



Popcorn

- 663JO Japanese Hullless
- 675DO Dakota Black
- 677BO Pennsylvania Dutch Butter Flavored Ornamental & Dry Field Corn
- 680PO Painted Mountain
- 682CO Abenaki Calais Flint
- 688FO Floriani Red Flint
- 692HO Hopi Blue Flint
- 695GO Glass Gem



PEAS

Pisum sativum

- 819GO Oregon Giant
- 883AO Sugar Ann
- 889CO Cascadia

Consult our website for the availability of other OG shell, snow and snap peas.



MELONS

Cucumis melo

- 958AO Arava
- 972JO Jenny Lind
- 974MO Magnificenza F-1 hybrid
- 981GO Golden Gopher
- 984PO Pride of Wisconsin



WATERMELON *Citrullus lanatus*

- 1003BO Blacktail Mountain
- 1028SO Sugar Baby
- 1035DO Sweet Dakota Rose
- 1063CO Crimson Sweet
- 1067GO Orangeglo
- 1072MO Moon and Stars

Cucumbers *Cucumis sativus*

- Pickler
- 1239LO Little Leaf H-19
- Slicers
- 1308PO Poona Kheera
- 1311BO Boothby's Blonde
- 1313MO Marketmore 76
- 1318SO Silver Slicer
- 1375RO Richmond Green Apple
- 1380SO Sucrates F-1 hybrid
- 1394SO Suhyo Long
- 1396KO Shintokiwa



SQUASH

SUMMER SQUASH *Cucurbita pepo*
1539CO Early Summer Yellow Crookneck
1577YO Y-Star F-1 hybrid

Consult our website for the availability of Costata Romanesca.

WINTER SQUASH *Cucurbita* spp.

1609SO Sweet Reba
1611ZO Zeppelin Delicata
1630DO Uncle David's Dakota Dessert
1665LO Lower Salmon River
1672GO Galeux d'Eysines
1676CO Candy Roaster
1683BO Burpee's Butterbush
1688WO Waltham Butternut
1693SO Seminole

PUMPKINS *Cucurbita pepo*

1718WO Winter Luxury
1720NO New England Pie
1723LO Long Pie
1752HO Howden



GOURDS *Cucurbita pepo* var. *ovifera*

1909TO Tennessee Dancing
1965BO Baby Bottle
1969SO Speckled Swan

carrots

Daucus carota

2051FO Nantes Fancy
2060RO Rumba
2068AO Atomic Red
2076DO Danvers 126
2079KO Scarlet Keeper
2090NO Napoli F-1 hybrid
2092YO Yaya F-1 hybrid

BEETS *Beta vulgaris*

2109WO Early Wonder Tall Top
2121RO Red Ace F-1 hybrid
2128GO 3 Root Grex
2129LO Golden Grex
2137CO Chioggia Guardsmark
2149TO Touchstone
2170LO Lutz
2187BO Bull's Blood



RADISHES *Raphanus sativus*

2253PO Plum Purple
2268MO Misato Rose
2273HO Hilds Blauer

PARSNIPS *Pastinaca sativa*

2306DO Andover

TURNIP *Brassica rapa*

2379WO Purple Top White Globe
2393GO Gilfeather

LEEKs, SHALLOTS, & ONIONS

Allium spp.

2411SO King Sieg Leek
2426GO Siegfried Frost Leek
2441EO Ed's Red Shallot
2445CO Cabernet Onion
2449YO New York Early Onion
2474DO Clear Dawn Onion
2489DO Dakota Tears Onion



CERTIFIED-ORGANIC VARIETIES

Spinach

Spinacea oleracea

2541BO Bloomsdale
2558WO Winter Bloomsdale

LETTUCE

-LACTUCA SATIVA-

Looseleaf and Oakleaf

2712BO Black Seeded Simpson
2713GO Green Ice
2715LO Balady Aswan
2719BO Bronze Arrowhead
2723SO Salad Bowl
2729RO Red Salad Bowl
2731CO Cracoviensis
2732GO Strela Green
2738AO Antares
2740DO Green Deer Tongue
2744RO Really Red Deer Tongue
2761RO Red Sails
2764BO Blushed Butter Oaks
2766YO Australian Yellow
2767DO Devil's Ear
2771YO Royal Oakleaf
2773HO Hyper Red Rurple Waved
2775FO New Red Fire
2781XO Merlox Red Oak
2783SO Slobolt
2784FO Flashy Green Butter Oak
2785TO Italienischer
2786WO Red Tinged Winter/BD
2787BO De Morges Braun
2788OO Oscarde
2789MO Merlot
2791TO Tango
2792RO Revolution
2793LO Dark Lollo Rossa
2795VO Lollo di Vino



Bibb and Butterhead

2814NO North Pole/BD
2816MO Winter Marvel
2828PO Pirat
2831SO Speckled
2834VO Sweet Valentine
2836YO Red-Eared Butterheart
Romaine, Cos, Batavian, Crisphead
2852PO Pandero
2854BO Blushed Butter Cos
2856JO Mayan Jaguar
2858FO Forellenschluss
2861JO Jericho
2862DO Better Devil
2866PO Plato II
2874LO Olga
2877MO Marshall
2883CO Crisp Mint
2886WO Winter Wonderland
2905DO Cardinale
2907SO Sierra
2908TO Concept
2921NO Anuenue



Mixes

2981LO Lettuce Mix
2983DO DeLuxe Lettuce Mix
2984FO Freedom Mix
2985RO Red Carpet Mix
2993GO Greens Mix

greens

3020SO Astro Arugula
3021CO Ice-Bred Arugula
3023AO Arugula
3038GO Golden Chard
3041RO Rhubarb Chard
3045CO Chervil
3056WO Wrinkled Crinkled Crumpled Cress
3063FO Très Fine Maraichère Olesh Endive
3075VO Chickendive
3148RO Red Orach
3150AO Aurora Orach
3169KO Krausa Parsley
3170DO Dark Green Italian Parsley
3182GO Golden Purslane



Consult our website for the availability of Prismatic Swiss chard.

ASIAN GREENS

Brassica spp.

3221TO Tatsoi
3222BO Tokyo Bekana
3226MO Early Mizuna
3227RO Ruby Streaks
3229MO Mizspoona Salad Selects GP
3236GO Golden Frill
3239LO Pink Lettuce Mustard Gene Pool
3245RO Red Giant Mustard
3247PO Osaka Purple Mustard
3249MO Purple Rapa Mustard Gene Pool
3253ZO Torziroh
3257CO Chinese Thick-Stem
3270PO Prize Choy Pac Choi



BROCCOLI

B. oleracea

3306SO Solstice
3312FO Fiesta F-1 hybrid
3325UO Umpqua



COLLARDS & KALE *Brassica* spp.

3442GO Cascade Glaze Collards
3449KO Scarlet Kale
3450VO Vates Kale
3451BO Beedy's Camden Kale
3457LO Rainbow Lacinato Kale
3460FO Russian Frills
3462RO Red Russian
3464WO White Russian

GLOBE ARTICHOKE

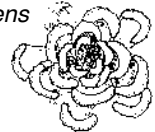
Cynara scolymus

3608SO Imperial Star

CELERIAC & CELERY

Apium graveolens

3630RO Redventure Celery
3634TO Tango Celery
3645DO Diamante Celeriac



EGGPLANT

Solanum melongena

3680AO Applegreen
3684DO Diamond
3688RO Rosita
3691BO Rosa Bianca



OKRA

Abelmoschus esculentus

3695JO Cajun Jewel
3697GO Red Burgundy
3699BO Beck's Big Buck

PEPPERS

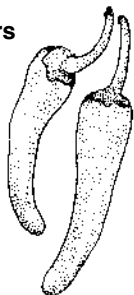
Capsicum annuum
Sweet Peppers

- 3704PO Peacework
- 3706GO Gilboa
- 3713NO King of the North
- 3723PO Purple Beauty
- 3725SO Staddon's Select
- 3735CO Chocolate
- 3738KO Klari Baby Cheese
- 3740SO Sweet Pimiento
- 3741PO Amish Pimiento
- 3744TO Tangerine Pimiento
- 3757CO Carmen F-1 hybrid
- 3759BO Boldog
- 3762JO Jimmy Nardello's
- 3776FO Feherozon



Hot Peppers

- 3816BO Czech Black
- 3829HO Chimayo
- 3831JO Jaluv an Attitude
- 3841DO Hidalgo
- 3845PO Hot Portugal
- 3849FO Fish
- 3856HO Ho Chi Minh
- 3860TO Thai Hot
- 3866MO Matchbox
- 3870HO Hinkelhatz



PHYSALIS

Ground Cherry *P. pruinosa*

- 4005MO Aunt Molly's
- Tomatillo *P. ixocarpa*
- 4012BO Purple Blush



TOMATOES

Lycopersicon esculentum

- 4018LO Glacier
- 4025SO Oregon Spring
- 4038CO Cosmonaut Volkov
- 4041BO Pink Berkeley Tie-Dye
- 4045PO Garden Peach
- 4049RO Pruden's Purple
- 4051JO Jaune de Flamee'
- 4053PO Black Prince
- 4054GO Goldie
- 4055TO Rutgers
- 4056GO Green Zebra
- 4059CO Cherokee Purple
- 4060BO Paul Robeson
- 4061KO Black Krim
- 4065JO Jubilee
- 4067RO Rose de Berne
- 4069GO German Johnson
- 4075BO Pink Brandywine
- 4076YO Yellow Brandywine
- 4077NO Pineapple
- 4080AO Aunt Ruby's German Green
- 4081MO Mark Twain
- 4083WO Weisnicht's Ukrainian
- 4087TO Tiffen Mennonite
- 4097RO Ruby Gold
- 4238LO Luci 2103 F-1 hybrid



CERTIFIED-ORGANIC VARIETIES

Cherry Tomatoes

- 4103SO Gardener's Sweetheart
- 4108BO Be My Baby
- 4115BO Black Cherry
- 4119VO Peacevine
- 4121DO Green Doctors Frosted
- 4122FO Fargo Yellow Pear
- 4252SO Esterina F-1 hybrid Yellow cherry
- 4253JO Jasper F-1 hybrid

Paste Tomatoes

- 4123MO Mr. Fumarole
- 4125HO Heinz 2653
- 4131GO Grandma Mary's
- 4133LO Bellstar
- 4137NO Orange Banana
- 4138RO Speckled Roman
- 4140AO Amish Paste
- 4149MO Heirloom Tomato Mix



GRAINS

- 43000O Opopeo Amaranth *A. hybridus*
- 4309TO Terra Hullless Oats *Avena nuda*
- 4311RO Duborskian Rice *Oryza sativa*
- 4322BO Black Eagle Wheat *Triticum aestivum*
- 4324UO Utrecht Blue Spring Wheat *Triticum durum*

HERBS

- 4407AO Anise Hyssop *Agastache feniculum*
- 4409RO Arnica Chamissonis *A. c.*
- 4411WO Ashwagandha *Withania somnifera*
- 4412LO Astragalus *Astragalus membranaceus*

Basil

Ocimum basilicum

- 4415WO Sweet
- 4453LO Lime
- 4467BO Sacred *O. tenuiflorum*



- 4481WO Wild Bergamot *Monarda fistulosa*
- 4491BO Borage *Borago officinalis*
- 4513CO Chives *Allium schoenoprasum*
- 4517RO Caribe Cilantro *Coriandrum sativum*
- 4518SO Santo Cilantro *Coriandrum sativum*
- 4531BO Bouquet Dill *Anethum graveolens*
- 4547CO Echinacea *E. purpurea*
- 4550EO Elecampane *Inula helenium*
- 4551ZO Epazote *Dysphania ambrosioides*

Fennel

Foeniculum vulgare

- 4553PO Perfection
- 4567BO Bronze



- 4572FO Feverfew *Tanacetum parthenium*
- 4585LO Lavender *Lavandula angustifolia*
- 4630TO Milk Thistle *Silybum marianum*
- 4640MO Motherwort *Leonurus cardiaca*
- 4644SO Stinging Nettle *Urtica dioica*
- 4649ZO Zaatar Oregano *Origanum syriacum*
- 4657RO Rosemary *Rosmarinus officinalis*
- 4682MO Mad-dog Skullcap *Scutellaria lateriflora*
- 4683SO Spilanthes *S. oleracea*
- 4690VO Valerian *Valeriana officinalis*
- 4692BO Blue Vervain *Verbena hastata*

FLOWERS

- 4835HO Hopi Red Dye Amaranth *A. cruentus*
- 4837EO Elephant Head Amaranth *A. gangeticus*

Calendula
C. officinalis

- 4911FO Flashback
- 4913KO Kablouna Mix
- 4916MO Maya Orange
- 4925RO Resina
- 4927LO Solar Flashback
- 4929ZO Zeolights

Cosmos *C. bipinnatus*
5036NO Sensation

- 5147JO Job's Tears *Coix lacryma-jobi*
- 5212CO Crackerjack Marigold *Tagetes erecta*
- 5277KO Kniola's Purple Morning Glory *Ipomoea purpurea*

5289JO Jewel Mix Nasturtium *Tropaeolum majus*
Poppy *Papaver* spp.

- 5350EO Elka
- 5351ZO Ziar Breadseed
- 5368FO Flemish
- 5371RO Fluffy Ruffles
- 5377LO Large Lavender
- 5378SO Scarlet Peony



5423SO Northern Sea Oats
Chasmanthium latifolium

Sunflower

Helianthus annuus

- 5500AO Autumn Beauty Mix
- 5515LO Lemon Queen
- 5539SO Selma Suns
- 5906HO Hopi Dye



- 5603AO Sweet Annie *Artemisia annua*
- 5804BO Beneficials Mix



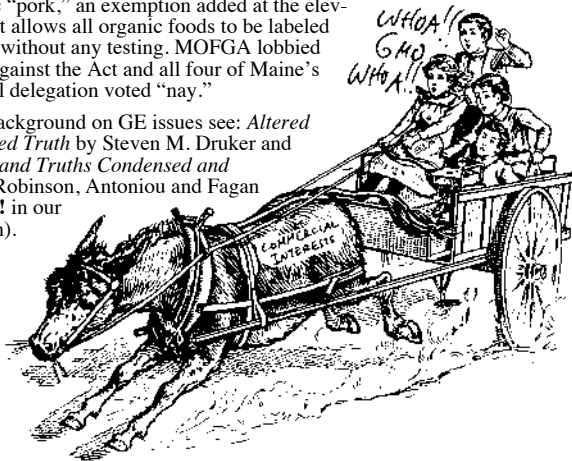
DARK Times for GMO Labeling

Vermont's first-in-the-nation mandatory genetic engineering labeling law was implemented July 1, 2016, and preempted less than a month later by federal legislation signed by President Obama. The National Bioengineered Food Disclosure Standard, considered a "compromise" by supporters and a "sham and a shame" by opponents, was hustled through Congress without committee hearings, passing 63-30 in the Senate and 306-117 in the House.

Although the legislation creates a national standard and requirement for labeling GE foods, it is a win for large food companies and biotech firms. Dubbed the DARK (Deny Americans the Right to Know) Act by opponents, it potentially exempts wide categories of GE foods, has no penalties against companies that fail to comply, and gives the USDA, no friend of labeling, discretion over the next two years to decide which products must be labeled. Most telling, by permitting non-transparent forms of labeling, it leaves the onus on consumers to learn which foods are GE. Companies can choose on their packaging to use a USDA symbol, a label printed in plain language, a QR code requiring a smart phone (which many seniors and rural low-income people don't have) and broadband access to translate, or a 1-800 number or URL consumers must access for more information. The Center for Food Safety, working with a coalition of national groups, is preparing to file suit against the legislation later this month.

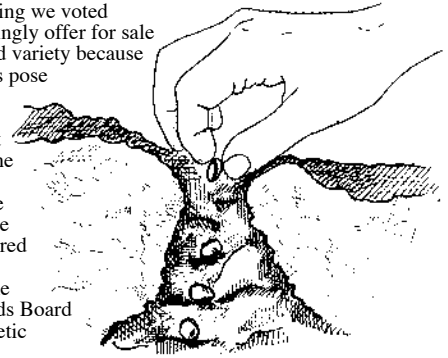
The law split the organic community with prominent board members of the Organic Trade Association supporting it, the farmer-controlled Organic Seed Growers and Trade Association (of which Fedco is a voting member) unanimously opposed. OSGATA withdrew from OTA and terminated OTA's OSGATA membership for misrepresenting organic interests to elected officials. Center for Food Safety Executive Director Andrew Kimbrell charged that OTA's "big organic" industry interests sold out for some organic "pork," an exemption added at the eleventh hour that allows all organic foods to be labeled "non-GMO" without any testing. MOFGA lobbied extensively against the Act and all four of Maine's congressional delegation voted "nay."

For further background on GE issues see: *Altered Genes, Twisted Truth* by Steven M. Druker and *GMO Myths and Truths Condensed and Updated* by Robinson, Antoniou and Fagan (9412, NEW! in our books section).



Fedco Does Not Knowingly Carry Genetically Engineered Seeds

At our 1996 Annual Meeting we voted unanimously not to knowingly offer for sale any genetically engineered variety because the new gene technologies pose unacceptable risks to the environment. In 1999 we affirmed and clarified that position and will follow the guidelines of the Organic Materials Review Institute (OMRI) which prohibit the use of genetically engineered organisms in organic crop production. OMRI uses the National Organic Standards Board (NOSB) definition of genetic engineering.



Please note the word "knowingly." Because of the possibility of contamination, over which we have no control, our pledge necessarily stops short of being an absolute guarantee. Although we will not sell any variety represented to us as genetically engineered, we will not be held legally responsible if any of our seed tests positive for genetically modified organisms. We apologize for having to split legal hairs, but we all share the reality of genetic drift.

We test sweet corn and beet seed for transgenic contamination. See page 9 for more information.

See: fedcoseeds.com/seeds/monsanto.htm for our definitive 2006 statement on why we do not purchase seed from Monsanto or any of its subsidiaries.

Three Proposed Mergers Threaten Further Seed Industry Consolidation

While regulatory reviews have prevented these deals from closing until 2017, the 3 proposed mergers, already agreed upon by their respective corporations, would give the resulting behemoths 60% control of the seed industry. A coalition of 9 NGOs recently presented a petition signed by more than 700,000 urging the Justice Department to block the proposed mergers.

- Bayer is buying out Monsanto in a \$66 billion deal. Fedco has three Bayer varieties. We are selling off our remaining seed and will extend our Monsanto boycott to Bayer products.
- State-owned China National Chemical Corporation is buying out Syngenta for \$43 billion. Fedco carries 20 Syngenta varieties, many market standbys.
- Dow and Dupont are merging to create a \$122 billion corporation. Fedco Seeds has no Dow or Dupont products.

Join our Cooperative as a Consumer Member!

Our 1,030 consumer members and 122 active worker members are the foundation of our strength and the fount of our support. When we turned to them to help us launch our Solar Project (see page 2) we were overwhelmed by their response. While most such appeals are lucky to generate a 2% response rate, we were astounded to achieve one of 7.77%! Our members financed the entire upfront cost of the project, and then some, helping us to get through our traditional autumn and early winter cash flow ebb without skipping a beat.

Here's your chance to join this incredible support team and help us continue far into the future. We have a lot of work to do to help build a sustainable seed system (for some of the obstacles we must overcome see above) and need all hands on deck!

We are asking for a \$100 membership equity, refundable at any time upon request. (\$105 to join online by credit card.) If this would be a hardship, there is a \$25 option. Please note that membership is by household (only one membership per household please) or by farm or organization.

Benefits include:

- A 1% discount on all orders from all our divisions.
- The opportunity to buy member-only specials.
- An invitation to our Annual Meeting each September.
- An opportunity to vote on any proposed bylaw changes.
- A chance to vote for and serve on our Board of Directors.
- The satisfaction of owning a small part of one of the most successful new wave coops.

Join our consumer member-owners who are helping write the next chapter of our enduring success!

CR Lawn
President, Fedco Seeds, Inc.

4107 Pink Princess cherry tomato is available to Fedco Coop members only!

Yes, I want to join Fedco as a consumer member-owner!

Enclosed is a check for my refundable membership deposit of \$100.

Please make membership certificate out to:

Name _____

Address _____

City _____ St _____ Zip _____

Customer # (if you know it) _____

Email address _____

PO Box 520, Clinton, ME 04927



Flowers at a Glance

| Name | item# | Botanical Name | APB | height | uses | season | sow | start | temp | days | notes |
|------------------------------|--------|----------------------------------|------|--------|-------|--------|----------|-------|-------|-------|----------------------|
| Achillea | 4802ff | <i>Achillea</i> spp. | P | 18-24" | BDC | ES-F | DS DF TP | 8-10 | C | 10-14 | Lt |
| Ageratum | 4811ff | <i>Ageratum houstonianum</i> | A | 24" | BCD | ES-F | TP | 6-8 | W | 4-6 | DS |
| Alyssum | 4821 | <i>Lobularia maritima</i> | A | 2-4" | FBW | ES-F* | DS TP | 5-6 | 55-70 | 8-14 | DS |
| Amaranth Love-Lies-Bleeding | 4831ff | <i>Amaranthus caudatus</i> | A | 24-48" | BNDE | MS-F | TP | 5-6 | W | 7-10 | PP |
| Amaranth | 4833ff | <i>A. cruentus, gangeticus</i> | A | 3-6' | CNDE | MS-F | TP DS | 6-7 | W | 10-14 | DLt |
| Amми Majus | 4843 | <i>A. majus</i> | A | 3-4' | C | ES-LS | TP DS | 8-10 | M | 7-14 | Ch2w |
| Aster, New York | 4849 | <i>Symphotrichum novi-belgii</i> | P | 36-48" | B | LS-F* | TP | 6-8 | M | 14-36 | Ch2w |
| Aster, China | 4851ff | <i>Callistephus chinensis</i> | A | 12-30" | BC | ES-F | TP | 12-14 | W | 10-21 | DL |
| Baby's Breath | 4861 | <i>Gypsophila paniculata</i> | P | 24-40" | BDC | MS-LS | TP DS | 8-10 | M | 14-21 | S |
| Bachelor's Button | 4871ff | <i>Centaurea cyanus</i> | A | 24-36" | BC | ES-F* | DW TP | 8-9 | C | 7-14 | DLcv |
| Balloon Flower | 4881 | <i>Platycodon grandiflorum</i> | P | 30-42" | CB | MS-LS | TP | 6-8 | M | 15-30 | S |
| Balsam | 4883 | <i>Impatiens balsamina</i> | A | 24" | B | MS-F | DW | | W | 8-10 | DS |
| Begonia | 4889 | <i>Begonia x tuberhybrida</i> | TP/A | 8-12" | BW | ES-LS | TP | 12-14 | W | 14-28 | DL |
| Bells of Ireland | 4896 | <i>Moluccella laevis</i> | A | 30" | DBN | MS-F | TP | 6-8 | C | 12-21 | DS, Ch5d50* |
| Blazing Stars | 4899 | <i>Liatrus spicata</i> | P | 18" | BCD | LS | DS TP | 6-8 | C | 21-28 | |
| Broom Corn | 5437 | <i>Sorghum bicolor</i> | A | 7-11' | D | LS-F | DW | | W | 7-10 | |
| Bupleurum | 4903 | <i>Bupleurum griffithii</i> | A | 2' | DCN | ES-F | TP | 8-10 | C | 14-21 | DL |
| Bur Marigold | 4904 | <i>Bidens aurea</i> | A | 3' | dye/B | LS-F | TP | 6-8 | M | 14-21 | Lt |
| Butterfly Weed | 4906 | <i>Asclepias tuberosa</i> | P | 18-30" | BCN | ES-LS | DS DF | | W | 14-28 | Ch4w34-40* |
| Calendula | 4911ff | <i>Calendula officinalis</i> | A | 18-24" | BDCE | ES-F* | DS TP DF | 6-8 | C | 4-10 | Cv |
| Canary Creeper | 4932 | <i>Tropaeolum peregrinum</i> | A | 8' | BV | LS-F | DW TP | 6-8 | C | 7-14 | DLcv |
| Candytuft | 4935 | <i>Iberis umbellata</i> | A | 20" | BGF | MS-LS | DW | | M | 14-21 | |
| Carrot, Purple Kisses | 4936 | <i>Daucus carota</i> | B/A | 18-24" | BC | ES-F | DS | | C/M | 14-28 | |
| Catmint, Persian | 4937 | <i>Nepeta mussinii</i> | P | 12" | BG | Sp-MS | TP DS DF | 6-8 | C | 10-14 | |
| Celosia, Crested/Cockscomb | 4943 | <i>C. argentea cristata</i> | A | 10" | BND | MS-LS | TP | 4 | W | 10-14 | |
| Celosia, Plume/Spike | 4948ff | <i>C. a. plumosa, spicata</i> | A | 3-6' | DCNB | LS | TP | 8-10 | W | 10-14 | |
| Cerinthe | 4962 | <i>C. major purpurescens</i> | A | 12-18" | B | MS-F* | TP DW | 6-8 | W | 7-14 | |
| Chinese Forget-Me-Not | 4965 | <i>Cynoglossum amabile</i> | A | 18" | B | MS-LS | DW TP | 6 | M | 5-10 | |
| Chinese Lantern | 4968 | <i>Physalis alkekengi</i> | P | 24" | DNC | MS-F | TP DF | 8 | W | 14-21 | DS, invasive |
| Cleome | 4982ff | <i>Cleome hassleriana</i> | A | 48" | BN | ES-LS | TP DW | 4-6 | W | 7-14 | Ch, S |
| Coleus | 4992 | <i>Solenostemon scutellar.</i> | TP/A | 10-12" | WBN | MS-F | TP | 8-10 | M | 10-14 | DLt |
| Columbine | 4995ff | <i>Aquilegia spp.</i> | P | 18-30" | B | Sp-ES | TP DS | 6-8 | W | 14-28 | DLt, Ch3-4w |
| Coneflower, Prairie | 5007 | <i>Ratibida columnifera</i> | P | 1-3' | B N | MS-LS | TP | 6-8 | W | 7-42 | Ch1w |
| Coreopsis | 5012 | <i>Coreopsis grandiflora</i> | P | 18" | BC | ES-F | TP | 8-10 | C/M | 7-21 | DLt |
| Cosmos | 5021ff | <i>Cosmos bipinnatus</i> | SSA | 3-5' | BCS | MS-F | DW TP | 2-4 | W | 7-10 | Lt |
| Cosmos, Yellow | 5038ff | <i>C. sulphureus</i> | A | 2-3' | BC | MS-F | DW TP | 2-4 | W | 7-10 | |
| Dagger | 5041 | <i>Leonotis nepetifolia</i> | A | 1-5' | B | MS | TP | 12-14 | C/M | 10-21 | |
| Dahlia | 5045 | <i>Dahlia x hybrida</i> | TP/A | 12-14" | BC | MS-F | TP | 6-8 | W | 7-14 | DL |
| Daisy | 5047ff | <i>Leucanthemum x superbum</i> | P | 36" | BC | ES-MS | TP | 6-8 | W | 7-14 | |
| Delphinium | 5052ff | <i>Delphinium x cultorum</i> | P | 3-6' | BCD | MS-LS | TP | 10 | M/W | 14-21 | Ch2-4w |
| Dianthus (Carnation, Pink) | 5061ff | <i>Dianthus spp.</i> | A | 12-20" | BCF | MS-LS | TP | 8-10 | M | 7-14 | |
| Didiscus | 5067 | <i>Trachymene coerulea</i> | A | 24" | CB | MS-LS | DW TP | 8 | W | 14-21 | |
| Drumstick Flower | 5072 | <i>Crespedia globosa</i> | TP/A | 1-3' | CDB | MS-LS | TP, DS | 6-8 | M | 10-30 | |
| Dyer's Coreopsis | 5904 | <i>Coreopsis tinctoria</i> | SSA | 30" | CB | MS-F | DS TP DF | 6-8 | C | 4-10 | S, rugged |
| Echinacea | 4545ff | <i>Echinacea spp.</i> | P | 1-3' | BC | MS-LS | TP DW | 8-10 | W | 10-21 | DL |
| Euphorbia | 5075 | <i>Euphorbia marginata</i> | A | 24-36" | CNB | MS-F | DW TP | 3 | M | 9-14 | DL |
| Flax, Blue | 5079 | <i>Linum perenne lewisii</i> | P | 9-12" | B | ES-LS | DS TP DF | 6-8 | C | 21-28 | DL |
| Flowering Cabbage/Kale | 5082ff | <i>Brassica oleracea</i> | A | 8-18" | BNE | F-F* | DSTP | 5-7 | C | 7-14 | start Jun for Aug TP |
| Forget-Me-Not | 5091 | <i>Myosotis sylvatica</i> | B,P | 6-12" | BCG | Sp-ES | DS | 8-10 | M | 8-30 | |
| Four O'Clock | 5095 | <i>Mirabilis jalapa</i> | A | 24-36" | BF | ES-LS | TP DW | 6-8 | W | 5-10 | |
| Gaillardia | 5097 | <i>Gaillardia aristata</i> | P | 24-36" | BC | MS-F | TP DW | 6-8 | W | 14-21 | Lt |
| Gazania | 5100 | <i>Gazania rigens</i> | A | 8-10" | BW | MS-F | TP | 6-8 | W | 12 | Lt |
| Globe Amaranth | 5102ff | <i>Gomphrena globosa</i> | A | 2' | BD | MS-F* | TP | 8-12 | M | 7-30 | Dk, Ch5w |
| Goatsbeard | 5112 | <i>Aruncus dioicus</i> | P | 4-6' | BS | ES | TP DW | 3-4 | M | 20-30 | DLt |
| Helen's Flower | 5119 | <i>Helenium autumnale</i> | P | 4-5' | BC | LS-F | TP | 6-8 | M | 14-21 | |
| Helioopsis (False Sunflower) | 5113 | <i>H. scabra</i> | P | 3-6' | BCS | MS-F | TP DW | 10-12 | M | 14-21 | |
| Heliotrope | 5116 | <i>Heliotropium arborescens</i> | TP/A | 14-18" | FWBC | MS-F | TP | 6-8 | W | 21-28 | DL |
| Hollyhock | 5122ff | <i>Alcea rosea</i> | SSB | 4-8' | BS | MS-LS | TP DF | 8-9 | WM | 7-21 | St |
| Honesty (Silver Dollar) | 5132 | <i>Lunaria annua</i> | B | 3' | DN | LS-F | DS TP DF | 6 | M | 14-21 | DL |

ff=and following

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FLOWERS

Flowers are arranged here mostly by common name. For **Dye plants** see p. 110. See chart on pp. 90-91 for cultural information and common uses. A botanical index is at left. Days in parentheses after a variety indicate days to first bloom. What to plant next to what? A good trick is to cut a flower and walk it around the garden, holding it close to other flowers to see which combinations are most compatible.

All flowers open-pollinated unless noted.

ACHILLEA *Achillea* spp.

Perennial, Zones 3-10. Named for Achilles, who used it to stanch battle wounds. We recommend **4699 White Yarrow** for medicinal use. Likes full sun and good drainage. Avoid rich soils. Cut back spent blossoms to encourage another bloom.

4802CQ **Cherise Queen**

A. millefolium Also known as Pink Yarrow. Easy to grow and tolerant of drought, heat and poor soil. Beautiful cherry-red flat flower heads 2-4" across on 18" stems with lacy foliage. A good border plant that feeds many beneficial insects.

Needs light to germinate. Start indoors and transplant out. ~6,200 seeds/g. ☼ ③

A=0.1g, \$1.40 B=0.5g, \$3.80 C=3g, \$14.00

4803SP Summer Pastels *A. m.* What's not to love about a yarrow? Easy to care for, long lived and long blooming, good in drought and beautiful, with a full range of soft pastel colors to light up any empty spaces in your sunny garden. This AAS winner covers the range from creamy yellow to gold, light to deep pinks, shades of lilac, red and white. Support beneficial insects in your garden. 18-24". ~6,000 seeds/g. ☼ ③

A=0.05g, \$2.10 B=0.15g, \$5.00 C=0.6g, \$12.00

4804PL The Pearl *A. ptarmica* Bears clusters of fully double small white pompon blooms with tiny yellow centers, almost like a large double Baby's Breath. Though its common name Sneezewort would lead one to believe that the flowers induce excessive sneezing, actually it is less allergenic than common yarrow. Easily cultivated, spreads readily and makes an effective "wild" border, 2-3' tall. Supplies copious cutflowers from spring until frost, enjoyable either fresh or dried. Dry slowly before the oldest blooms turn to brown. ~7,000 seeds/g. ③

A=0.05g, \$1.00 B=0.15g, \$2.00
C=0.6g, \$3.00

AGERATUM *A. houstonianum*

Annual. Its name means 'not growing old' as the flowers retain color for a long time. Also known as Flossflower. Covered with blossoms, great for summer borders.

Culture: Start indoors at 80° for 6-8 weeks before last frost; grow on at 60-65°. Set 9-12" apart. Likes full sun. Water in hot weather. Extreme temperatures inhibit flowering. Will not tolerate frost. Cut for vase when flowers are first opening. ~7,000 seeds/g.

4811DB Dondo Blue (40 days from transplanting) A cutting ageratum with long stems. Blooms held nicely through a rainy summer, all the way from July 20 to Oct. 5 killing frost. ③

A=0.1g, \$1.50 B=0.5g, \$5.00 C=2g, \$8.00

4813LD Leda Sparkling bicolor blossoms, light blue with white centers. Quilled petals lend a frosted effect. Very slow to brown even in seemingly interminable fall rains. *This is the last year for Leda unless sales improve.* ③

A=0.1g, \$1.30 B=0.5g, \$2.50 C=2g, \$6.00

4815RF Red Flint (60 days) Dense fuzzy heads are beautiful, standing on sturdy 2' stems and catching the fading summer's light. The color isn't quite red: more of a purplish-red. They make a good cut, and can be dried as well, retaining their color. ~7,500 seeds/g. ③

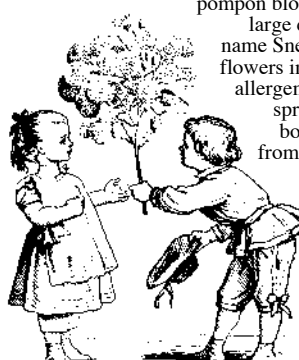
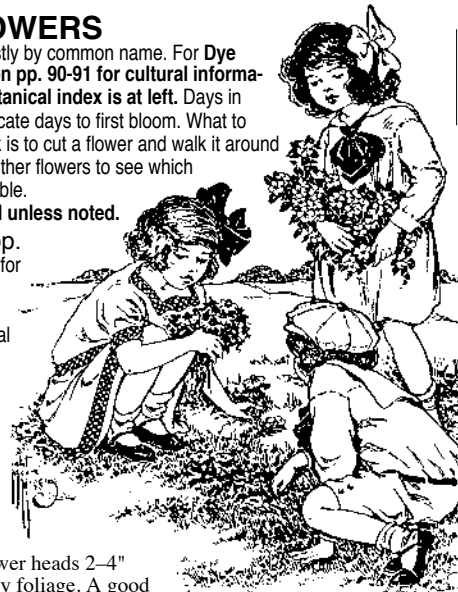
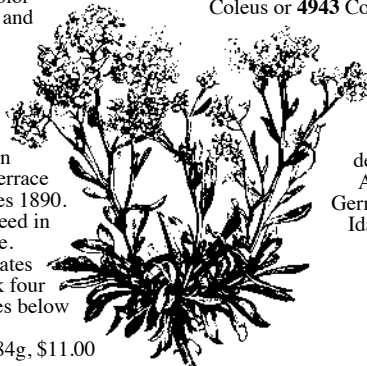
NEW!

A=0.1g, \$1.30 B=0.5g, \$2.50 C=2g, \$6.00

4821CS Carpet of Snow Alyssum *Lobularia maritima*

(60 days) Annual. Free-flowering ground cover, blossoming from late spring well into fall with a fragrance like fresh-mown hay. Cascading habit makes it excellent for windowboxes or terrace edges. 4" dwarf white. Formerly known as Little Gem, predates 1890. Widely recognized nectar source for beneficial insects. Start seed in cool place 6 weeks before setting out. Needs light to germinate. Transplant seedlings 4-8" apart. Easy to grow, likes sun, tolerates some shade. To extend their season, shear plants halfway back four weeks after bloom. Resistant to frost, will tolerate temperatures below 25°. ~3,200 seeds/g. ☼ ②

A=0.5g, \$1.20 B=7g, \$2.80 C=28g, \$5.60 D=84g, \$11.00



AMARANTH *Amaranthus* spp.

Annual. A dual-purpose crop, both nutritious and decorative. From the Greek *amarantos* for 'unfading.' Used as an ornamental, especially in harvest arrangements. Amaranth was an extremely important food of the Aztecs. ~1,250 seeds/g.

Also see page 70 amaranth: **4300** for grain and **4301** for greens.

4831LL Love-Lies-Bleeding *A. caudatus* (90 days) Also known as Tassel Flower. Well loved by cottage gardeners for more than 300 years. This vigorous 2-4' branching annual sports long drooping red tassels that hold until frost. Makes a good border; stake and tie for neater appearance. Goes well with bachelor's buttons, nicotiana or sunflowers. Start indoors at 70-75°, grow on at 62-65°. Avoid heavy fertilization. Space at least 1' apart for strong stems. May be air-dried by hanging upside down; use heat for better color. ~1,500 seeds/g. ③

A=1g, \$1.20 B=7g, \$3.00 C=28g, \$7.00

4832GL Green Love-Lies-Bleeding *A. c.* (90 days)

Open-pollinated. Also known as Green Tassel Flower. Some of you may have met this old heirloom after our supplier mistakenly sent this seed in place of **4831 LLB**. Pale green 2' long seedheads dangle from 3-5' plants like strands of jewels making a beautiful complement to red LLB.

These trusses are vase-ready, either as cuts or when dried, and exhibit a 6-week bloom time from midsummer to frost. Best grown in full sun. *This is our last year to offer.* ~1,500 seeds/g. ③

A=1g, \$1.20

4833CH Copperhead

A. cruentus (46 days)

Flaunts glorious copper-colored seedheads atop its majestic 5' stalks at maturity. Wonderful decorative complement to the red amaranths, used as a garden backdrop or to give harvest arrangements a bright earthy autumnal color. Also an underused food plant both for its seeds and its young leaves, but the seeds may require too long to mature in our climate. ②

A=0.2g, \$1.70 B=0.6g, \$3.20

C=1.8g, \$7.00 D=9g, \$24.00

4835HO Hopi Red Dye OG *A. c.*

(46 days) A stately 6' plant, Hopi was the best of the nine amaranths we compared, displaying 1-2' deep burgundy inflorescences. Leaves may be green or burgundy or some variation. Eat the young leaves in salads or slightly steamed, admire them young or old. The Hopis make a scarlet food dye from the flower bracts to color their ceremonial *piki* bread. Yanna Fishman of Union Mills, NC, suggests using Hopi in your floral arrangements. "When added to a flower bouquet it makes an ordinary clear jar look like an elegant purple-tinted vase as it colors the water." OT-certified. ①

A=1/16oz, \$1.50 B=1/8oz, \$2.70 C=1/2oz, \$6.00 D=1oz, \$10.00

E=4oz, \$38.00

4836CV Carnival *A. gangeticus* (72 days) This gaudy amaranth fooled me early in the summer with its respectable robe of mahogany, green and bronze foliage swirled on an upright 3-4' central stalk. But at maturity, Carnival brings the party. Promiscuous whorls of hot pink foliage top every branch leader, transforming this matron into a diva, nearly 6' tall. Pinch back the central leader at 2' for a fuller, bushier habit. Grow alongside **4992 Wizard Coleus** or **4943 Coral Gardens Cockscomb** for a psychedelic garden bash. ③

A=0.2g, \$1.50 B=0.6g, \$2.80

C=1.8g, \$7.00 D=9g, \$20.00

4837EO Elephant Head OG *A. g.* (90 days)

Tune out the politicians and elect this garden Elephant Head instead for its more amusing flair for the dramatic. The 110-year-old heirloom with deep reddish-maroon blooms develops a 6-12" vertical "trunk" atop a 12-18" base during August. The whole spectacular plant grows 3-5'. Seed from German immigrants saved by three generations of gardeners in Idaho, popularized by Seeds of Change. OT-certified. ①

A=0.1g, \$1.50 B=0.3g, \$3.00 C=1.2g, \$7.00

D=6g, \$20.00

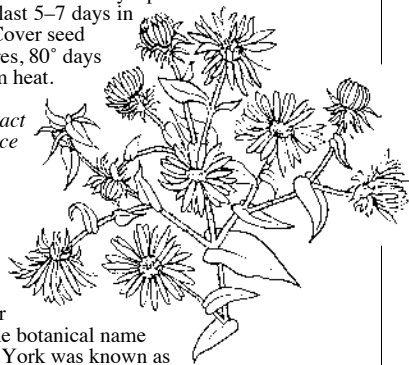


The real voyage of discovery consists not in seeking new landscapes, but in having new eyes.
—Marcel Proust

FLOWERS

4843AM Ammi Majus *A. m.* (105 days) Annual. Also known as White Dill, False Queen Anne's Lace, Lace Flower and Bishop's Flower. Grows 3-4'. This popular florists' filler looks like an elegant cousin to Queen Anne's Lace. I was enchanted by its attractive green buds and intoxicated by its aroma. Flat white lacy flower heads 5-6" across lend an airiness to bouquets. Best cut when all the florets are nearly open but before they shed pollen. Ammi will last 5-7 days in the vase. Prechill seeds two weeks. Cover seed lightly. Needs fluctuating temperatures, 80° days and 50° at night. Do not apply bottom heat. Germinates 7-14 days. Space 9-12" apart. *Caution: some people get contact dermatitis from the sap in the presence of sunlight.* ~1,900 seeds/g. ②

A=0.5g, \$1.10 B=2g, \$2.80
C=20g, \$5.50



4849NH New Hybrids Aster

Symphotrichum novi-belgii Perennial, Zones 4-8. A good antidote when summer flowers fade and the late-season doldrums hit your garden. These hardy "New York" (the botanical name dates back to when the State of New York was known as 'New Belgium') perennial asters pick up right where the others leave off, blooming the first year in a range of colors from red to purple and bluish to white in sequence from August to November. Because this is a mix of various hybrids and each type, in turn, blooms for several weeks, it makes a continuous long-lived show of color on the 4' plants. All the New World asters have been taken from the *Aster* genus and renamed *Symphotrichum*. ~1,700 seeds/g. ⑤

A=.05g, \$1.60 B=0.2g, \$3.20 C=1g, \$7.20

CHINA ASTER *Callistephus chinensis*

Annual. *Callistephus* is from Greek *kallos* meaning 'beautiful' and *stephos*, 'crown.' The China Aster began its journey west around 1730 when a Jesuit missionary noticed it growing in a field near Beijing. Wildly popular by 1883 when Burpee listed 19 different classes of them compared to two each of marigold and zinnia. Good bedding plants or cutflowers. Range of color includes blues, purples, pinks and white.

Culture: Sow indoors at 70-72° in late winter, transplant after danger of frost. Cut stems when 2-4 flowers have opened. Vase life is 5-7 days, longer if you use a floral preservative. Aster Yellows is a serious disease problem. Use floating row covers to keep out leafhoppers, the vector. ~450 seeds/g.

4851CR Grego Mix Bold ostrich-feather blooms hold well in wet or cold conditions. 2' plants with 4" flowers in violet, lavender, pink, rose and fuchsia. Maule in 1915 asserted that they "surpass in size and beauty any other aster we have ever seen." "Pleasing, stately, handsome and vigorous," concluded H.W. Buckbee in 1927. ②

A=0.5g, \$1.20 B=4g, \$3.00 C=16g, \$5.00

4854MM Matsumoto Mix (100 days) A very classy cutflower that may be harvested by the individual stem or in its entirety. Flowers sport distinct yellow centers amidst a variety of shades including apricot, blue, pink, red, rose, salmon and white. 2" semi-double blooms are concentrated at the top of strong 2 1/2' stems. ③

A=0.2g, \$2.00 B=3g, \$8.00 C=9g, \$20.00

4857PR Princess Mix (110 days) 2-3" flowers on long wiry stems. The pompon blooms with deeply crested centers are richly colored in shades of purple, salmon, magenta, rose and lavender. These elegant cutflowers tend to be late bloomers. Unsurpassed in September. ③

A=0.25g, \$1.30 B=2g, \$3.00 C=8g, \$6.50

4859SS Sea Star Mix The most stunning aster Nikos has ever grown. 2' plant bears fancy "tiger paw" flowers 3 1/2-4" across, with a curled whorl of needle-like petals in a choice mix of lavender, blue, pinks, violet and soft white. Very productive and uniform. Excellent in bouquets and striking in the garden. ①

A=0.2g, \$1.60 B=0.6g, \$4.00 C=3g, \$10.00

4860SP Super Andrella Super-size it! 2-3' tall plants with large single flowers with overlapping petals in a bright array of colors: pinks, purples, yellow, red and white, and contrasting yellow centers. They look a bit like gerbera, but on a plant that makes a statement. Thrives in cool summers; a very rewarding annual that blooms right up until frost. ③ **NEW!**

A=0.2g, \$1.30 B=1g, \$3.00
C=5g, \$6.50

4861BB Single Alba Baby's Breath *Gypsophila paniculata* Perennial, Zones 4-8. Lovely as a border plant in masses, bearing many tiny single white flowers. Great filler for bouquets. Useful as an everlasting if cut before fully opened. May be sown direct; do not cover. Likes well-drained soil. Grows to 3'. ~1,270 seeds/g. ③

A=0.7g, \$1.30 B=7g, \$3.50 C=21g, \$7.00



BACHELOR'S BUTTON *Centaurea cyanus*

Annual. Named for the centaurs of Greek mythology. Easy to grow, great for cutflowers and beds. Common name may refer to the tight unopened buds' resemblance to buttons or to their popularity as boutonnières. Also known as Cornflower and, formerly, Hurt-Sickle because its wiry stems dulled many a sickle during mowing time.

Culture: Start indoors at 60-65° 2 months before setting out, or direct seed in May in a sunny location. Deadhead for persistent blooms, or make a succession planting in mid-late June if you desire late-summer flowering. Will self-sow. Lasts longer than most flowers after frost. Gained top rating for drought resistance from Garden Centers of Colorado. Cut when flowers are just beginning to open—they'll open more in the vase and last 6-10 days. 3'. ~210 seeds/g. *Cannot ship to Alaska.*

4871BL Blue Boy (90 days) Showy blue. ②

A=1g, \$1.20 B=28g, \$3.20
C=112g, \$8.00 D=11b, \$21.00

4873FR Frosty Mix (96 days) Dark centers featuring maroons and purples fade into white outer petals, creating a frosted effect. Bloomed 4 weeks after a May 2 transplanting at Loon Song Farm. ③

A=1g, \$1.30 B=7g, \$3.20
C=28g, \$8.00 D=112g, \$18.00

4875BG Black Gem or Garnet (90 days) Ruffled dark maroon. Dates from Buist's 1942 catalog. Hard to find. ③

A=0.25g, \$1.50 B=1g, \$3.30
C=4g, \$6.20 D=12g, \$10.00

4877RB Red Boy (90 days) Deep red. Dates from 1942. ②

A=1g, \$1.20 B=7g, \$3.00
C=28g, \$5.60 D=11b, \$26.00

4879BM Mix (90 days) Showy blend of blue, pink, red, white flowers with blue predominating. ②

A=1g, \$1.20 B=28g, \$3.00
C=112g, \$6.00 D=11b, \$19.50

4881BF Florist Blue Balloon Flower *Platycodon grandiflorum* Perennial, Zones 3-8. Developed specifically for the cutflower trade, this 2 1/2-3 1/2' plant bears long-lasting deep blue rounded star-shaped flowers from June to August. Called Balloon Flower because the buds look like inflated balloons ready to burst. Slow to emerge in spring; needs some support once it does. Plant in sun to light shade, 12-18" apart. Taproot can make it tricky to transplant. Avoid wet soil where it will not thrive. ~1,100 seeds/g. ③

A=0.1g, \$1.30 B=0.4g, \$3.40 C=2g, \$6.50

4883CB Double Camellia Mix Balsam *Impatiens balsamina* Annual. Balsam reigned supreme during the Victorian era when it was called Lady Slippers. Vick's in 1895 averred "no plant will give more in return for the care bestowed upon it and none is more frequently neglected," recommending spacing at least 1' apart, aiming for a wide diameter at the base and a pyramid shape covered with flowers. A different school suggests pinching off the side branches and the first flowers to encourage a profusion of blooms near the top of the plant and give the effect of a ready-made bouquet. Both agree that wide spacing is important to make the most of Balsam's novel show of abundant pink, rose and white rosettes along the axils up its stems. Direct seed after danger of frost. Don't cover the seed. 2'. ~120 seeds/g. ③

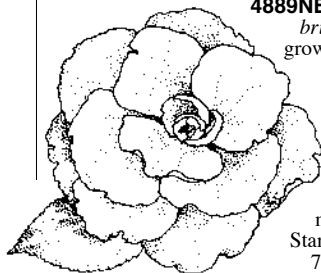
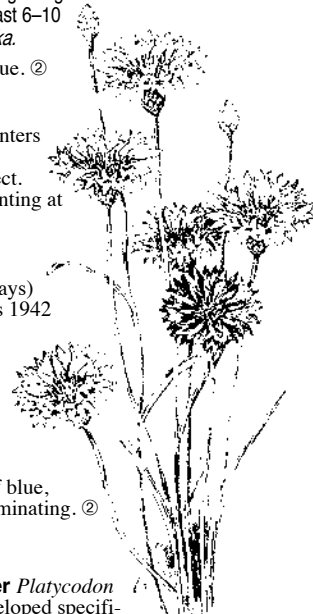
A=1g, \$1.10 B=7g, \$2.80 C=28g, \$5.60

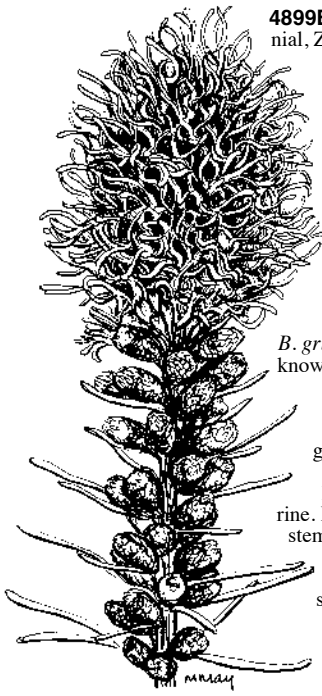
4889NB Nonstop Tuberous Begonia *B. x tuberhybrida* (140 days) F-1 hybrid. Perennial in Zone 10, grown as an annual. A boisterous mix of flamboyant color to awaken your garden. Nine shades, from pink to fiery red, apricot to golden orange, plus yellow and white, create a riot of color in a shady garden border or in hanging pots. Europe's #1 windowbox plant sports showy 3 1/2-4 1/2" fully double blooms on vigorous basal-branching stems. Begonias like shade, moisture, very rich soil, will tolerate a bit of sun. Start indoors, set out after all danger of frost. Needs 75° to germinate; takes 2-3 weeks. Pelleted seed. Packed by seed count, not weight. ②

A=10 seeds, \$1.90 B=50 seeds, \$6.00

4896BI Bells of Ireland *Moluccella laevis* (110 days) Annual, everlasting. Spikes of bright green bell-shaped "flowers" atop 2 1/2' branching stems. Each green bell is really a showy inflated calyx with a tiny pinkish flower inside. When dried, bells turn creamy white. Likes partial shade; thrives in cool climates. Needs light to germinate. Will self-sow. ~140 seeds/g. ②

A=1g, \$1.10 B=3g, \$2.80 C=15g, \$5.50





4899BS Blazing Stars *Liatris spicata* Perennial, Zones 3-9. Also known as Gayfeather. 18" spikes of rosy purple flowers for cutting, also excellent for drying. Harvest the stems in the morning when at least half the flowers are open. Start indoors in late winter in a cool place and set out in spring in 6-8 weeks or direct seed in spring. Takes 3-4 weeks to germinate. ~330 seeds/g. ✨ ②
A=2g, \$1.40 B=6g, \$3.40
C=18g, \$8.00

Bouncing Bet has moved to the dye section (p. 110) as **5920 Soapwort**.

4903BU Green Gold Bupleurum *B. griffithii* (90 days) Annual. Though not well known outside of Dutch flower auctions where it commands a price similar to roses, this unique plant with yellowish flowers and round leaves is treasured by dried-flower growers. Its well-branched 2' stems air-dry perfectly, retaining their green color and looking like they had been dried in glycerine. Because each stem fans out, an individual stem provides backdrop for an entire arrangement, either fresh or dried. Start indoors early to reach full growth potential. Will self sow in warmer areas. ~320 seeds/g. ③
A=0.2g, \$1.40 B=0.6g, \$3.30
C=6g, \$6.00 D=30g, \$18.00

4904BM Bur Marigold *Bidens aurea* (120 days) Annual. I was introduced to

these vibrant 1-2" yellow coreopsis-like flowers during an eco-dye workshop. While most plants produced shades of greenish brown and dusty purple, *Bidens* erupted with color. Commonly called beggar tick because of the propensity of its seeds to hitch rides on the clothes of passers-by, this 3' wiry-stemmed clumping plant blooms a cloud of soft yellow color from August to October. The five petals exhibit a gradation of color that is only slightly contrasted by the stamens of its yellow center. Thrives in sun in all kinds of soils and is great forage for bees. Especially beautiful when planted in wide swaths. When brought indoors as a cutflower emits an attractive vanilla scent. In some parts of the world it is used for tea. Recent research has found it inhibits stomach irritation induced by stress. Takes 3 weeks to germinate and prefers sun and moisture. Here is one tick you won't mind finding on your clothes. ~350 seeds/g. ✨ ③

A=0.25g, \$1.40 B=1g, \$3.30 C=4g, \$8.00

4906BW Butterfly Weed *Asclepias tuberosa* Perennial, Zones 4-9. Also called Pleurisy Root. Native to North America and widely adapted, this bright sun-lover provides a bold splash of bright orange from June until frost. Vigorous mounded 2x2' plants bear broad 5" heads of waxy flowers attractive to butterflies and bees. Leaves are a food source for monarch butterfly larvae. Both the flowers and pointed seedpods are useful for cutflower arrangements. Native Americans used roots to combat lung and throat troubles and to soothe wounds and sores. Germinates in 3 weeks at 70°. Choose a permanent site with well-drained fertile sandy soil because its tuberous roots do not like to be disturbed. Direct sow in spring or fall, thinning to 18-24". Cut when at least half the flowers are open. Use caution when handling cut butterfly weed as sap can cause irritation. Exceptionally drought-tolerant. ~200 seeds/g. ✨ ②
A=0.5g, \$1.50 B=2g, \$3.60 C=6g, \$7.00

Fedco Supports Avena Botanicals Herbal Apothecary

Maine herbalist Deb Soule founded Avena Botanicals in 1985 to provide organically grown herbal remedies to people living in rural areas. In the changing landscape of FDA regulations and the herbal-supplement industry, small businesses like Avena face increasing legal and financial pressures to comply with the same rules that mass-manufacturing companies do.

Your support will help Avena complete an FDA compliance manual so they can continue making high-quality hand-crafted medicines. Avena will then offer this manual as a free community resource to help other herbalists comply with the FDA and

supports Avena's mission to traditional plant medicines as an alternative to mass-produced herbal supplements.

You can donate your refund on the Seeds order form, either paper or web.

Learn more about Avena Botanicals at avenabotanicals.com.



CALENDULA *C. officinalis*

Annual. Old kitchen garden flower, 18-20" tall, also known as Pot Marigold. Beautiful daisy-like flowers feed pollinators, are good for informal bouquets, and are also edible. Blossoms can be snipped from their stems, dried and added to soups, salads and stews. They are also used in homeopathic remedies, herbal tinctures and ointments for their antiseptic and soothing qualities.

Culture: Calendulas bloom over an extremely long period, thrive in cool weather and persist through autumn's first frosts. Can be direct seeded in May or started indoors in cool place for early blooms. Readily self-sows. Don't crowd, give them full sun. Deadhead to keep blooms coming and the patch attractive, or try succession plantings. ~150 seeds/g.

4911FO Flashback OG (55 days) A mix of orange, apricot and peachy doubled petals, all with red backing to create a distinctive contrast. Colors fade to bicolor yellows or yellow-peach, adding interest as the plants mature. Blooms withstand light

fall frosts; still look good in October. OT-certified. ✨ ①

A=1g, \$1.80 B=4g, \$3.80 C=12g, \$8.50 D=48g, \$25.00

4913KO Kablouna Mix OG (60 days) Distinct refined form features striking crested blooms of gold, orange, lemon and apricot with a dark contrasting center. One of the loveliest of the calendulas. Kablouna, our seed room goddess who looks after the good fortune of seed packers, was named for this cultivar. OT-certified. ✨ ①

A=1g, \$1.30 B=4g, \$3.20 C=12g, \$6.00 D=1oz, \$11.00

4916MO Maya Orange OG A calendula with a different look. Its brick-orange petals are layered like shingles around the dark brown center giving the illusion of double blossoms, though they really are not. Good cuts to enliven summer bouquets. Donna Dyrek's began blooming on July 14. Readily self-sows. Bag tag limits seed to a one-time use. AGRIOR-certified. ✨ ③
A=1g, \$1.80 B=4g, \$4.40 C=12g, \$10.00

4918OD Oopsy Daisy Think Creamsicle! Orange- and yellow-tipped ivory-white petals slide down to golden centers. Singles and doubles abound on trustworthy cutflower-strength stems. Blooms open fully to 2" during the day, and plants reach a maximum height of 2'. Dainty foliage and dwarfed habit make this a treat for smaller spaces. A refreshing addition of white to our calendula collection. Oops! These have met with a chilly reception so we chilled out on our prices to heat up the demand. ✨ ⑤

A=1g, \$1.50 B=4g, \$3.80 C=12g, \$7.00 D=48g, \$22.00

4920PB Pacific Beauty Mix The classic lovely yellow and orange mix. Herbalists highly regard its healing gifts. ✨ ②
A=2g, \$1.20 B=14g, \$4.00 C=56g, \$8.40 D=224g, \$20.00

4925RO Resina OG (70 days) The best calendula for making tinctures and oils and the one Deb Soule grows at Avena Botanicals. Its medium-sized single blooms with small eyes are extremely resinous, coating your fingers or clippers while you harvest flowers. The medicinal sticky resins impart a pleasant odor. Blossoms are primarily bright yellow with yellow centers. A few will be orange with light orange centers. Cheery flowers, good medicine. OT-certified. ✨ ①

A=1g, \$1.50 B=3g, \$4.00 C=9g, \$8.00
D=27g, \$18.00

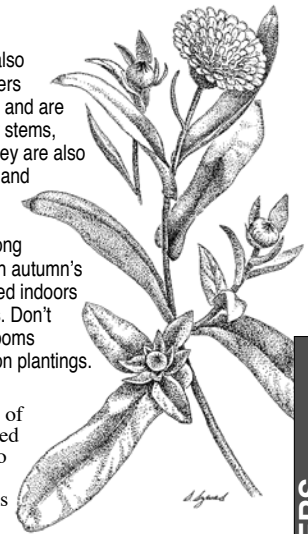
4927LO Solar Flashback Mix OG (55 days) A hot release from Frank Morton's calendula program. Morton describes it as "a distinctive new family of flash, selected to highlight contrast between bright light yellows, pinks, and solid red or maroon." Some feature yellow petals, some pinkish-blond, some yellow with light tips, all with contrasting red backs. Take a vacation from calendula orange. 🌞 2007. OT-certified. ✨ ①
A=1g, \$1.80 B=4g, \$4.00 C=12g, \$8.50
D=48g, \$25.00

4929ZO Zeolights OG Pinky-maroon backing shows through the yellow petals to lend a pink tinge to the familiar calendula-yellow. Dark centers accentuate the color contrast. A Morton original. OT-certified. ✨ ①

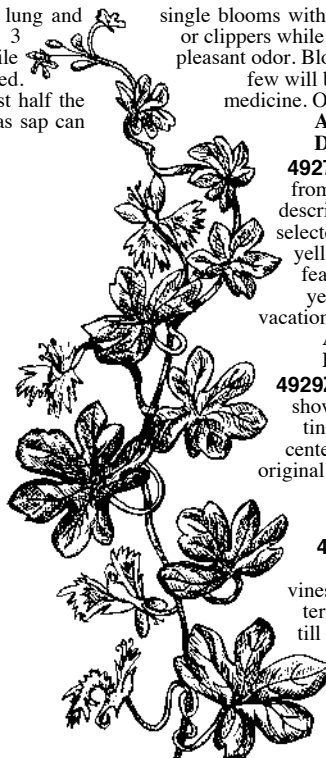
A=1g, \$1.80 B=4g, \$4.00 C=12g, \$8.50
D=48g, \$25.00

4932CC Canary Creeper *Tropaeolum peregrinum* Annual. A climbing relative of the nasturtium. Profuse 8' vines with unique deeply lobed frog-toe-like foliage and clusters of lacy-petaled golden-yellow flowers from midsummer till frost. Gorgeous when grown on a sturdy tripod with **5277 Kniola's Purple morning glories** and/or **318 Scarlet Runner beans**. Grows in shade but prefers full sun. ~15 seeds/g. ③

A=1g, \$1.50 B=7g, \$4.50
C=28g, \$12.00 D=112g, \$35.00



FLOWERS



4935FM White Candytuft *Iberis umbellata* Annual. We dropped our Candytuft Mix and returned to our old standby, as white appears to be the preferred color for this flower. Bushy mounded plant grows 18-24" and is covered with abundant small scented flowers. Excellent for borders. Direct seed in late spring. *Candia*, an old name for Crete, and *Iberis* show its Mediterranean origins. ~420 seeds/g. ③

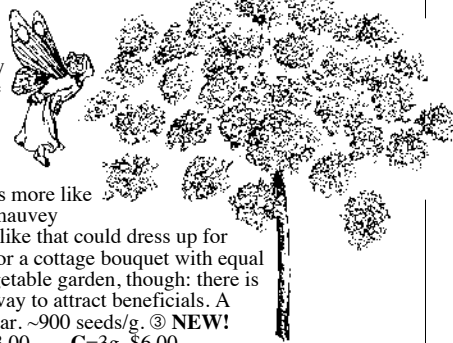
A=0.5g, \$1.00 B=5g, \$2.50 C=25g, \$5.00

4936PK Purple Kisses

Carrot *Daucus carota* (120 days) Years ago one of our suppliers sent us a carrot variety to trial—it bolted right from the outset but had beautiful purple flowers. We joked that it would make a better flower than a carrot. We love when our jokes come true. Purple Kisses sounds more like

a bad punk band than like this mauvey lacy Queen Anne's Lace look-alike that could dress up for a chic wedding or dress down for a cottage bouquet with equal aplomb. Not dual use in the vegetable garden, though: there is no edible root. But a beautiful way to attract beneficials. A biennial that blooms the first year. ~900 seeds/g. ③ **NEW!**

A=0.1g, \$1.20 B=0.5g, \$3.00 C=3g, \$6.00



4937PC Persian Catmint *Nepeta mussinii* Perennial, Zones 4-8. While we can't duplicate the lavender fields of Provence, we can create a similar look by planting catmint. Its soft grey-green leaves clothe wiry stems crowned with clusters of bluish-lavender tubular flowers. A member of the mint family, it grows rapidly in rich moist soils, but in sandy drier conditions can be contained. Plant early for blooms the first year. Thereafter will flower for 6 weeks from early spring to summer. Shear plants after blooming to encourage repeat blooms and to diminish self-sowing. Plant in full sun 2' apart. ~1,200 seeds/g. ③

A=0.1g, \$1.30 B=0.3g, \$3.00
C=1.2g, \$6.00 D=6g, \$12.00

CELOSIA *C. argentea*

Annual, good for fresh bouquets and everlasting arrangements. From the Greek *keleos*, 'blazing,' a reference to their brilliance. Commonly appear in three groups, *cristata* (crested, fancifully known as brains), *plumosa* (plumed) and *spicata* (with spikes or pointed). All share blazing colors, furry textures and unusual shapes. Known as *ji quan hua* in China where both seeds and flowers are used for blood diseases, bleeding and urinary tract infections.

Culture: From the Southern Hemisphere, at their best in hot dry weather. Should germinate within 10 days at 72-80°.

4943CG Coral Gardens Cockscomb *C. a. var. cristata* An extra-dwarf brain-type growing fairly large flowers on compact 10" plants. Blooms display a rich mix of red, crimson, rose, orange and gold with an almost neon glow. *Includes some spectacular giant brain off-types of all colors.* Be prepared when people approach your annuals and ask, "Do you have any brains?" Sow indoors in peat pots 4 weeks before last frost. Too-early seeding and cold temperatures can cause premature flowering. Seedlings sensitive to both drying out and damping off; apply moisture evenly. Pinch off heads two weeks after transplanting to induce branching or leave one stalk for one larger bloom. ~1,200 seeds/g. ③

A=0.5g, \$1.20 B=3g, \$2.80
C=15g, \$7.00



4948FF Forest Fire Cockscomb *C. a. var. plumosa* Plume-type celosia also known as Feather Amaranth shows bright scarlet flowers, with strikingly beautiful bronze-red foliage. 30-36". ~1,500 seeds/g. ③

A=0.2g, \$1.20 B=3g, \$2.80
C=12g, \$5.50

4956CR Cramer's Amazon

C. a. var. spicata (120 days) A truly wild thing from the Peruvian Amazon. Makes a great landscape plant, shooting a 3-6' spire punctuated by 2-3" reddish-purple spikes. Amazing long red stems and the spectacular spikes make this a perfect outflower. Its coleus-colored leaves, green splashed with purple, heighten its dramatic effect. Blooms hold up better than other *spicatas* as a dried flower if cut while the spikes are still short. As the blossoms age they turn white on the bottom. Requires a long season. Start inside 8 weeks before frost and transplant into warm ground. Pinch at 12" to encourage branching. ~250 seeds/g. ②

A=0.2g, \$2.20 B=1g, \$6.50 C=4g, \$17.00

Star Trek *C. a. var. scabra* Dropped by our supplier. *No longer available.*

4962CE Kiwi Blue Cerinthe *C. major var. purpurescens* Annual. Also known as European Honeywort or Wax Plant. Vigorous bushy 12-30" annual comes into focus when the cooler nights of late summer and early fall accentuate its colors. Coin-shaped grey-green foliage covers the sprawling stems. Profuse blue shrimp-like bracts bear terminal purple flowers shaped like comfrey blossoms. Tolerates heat, but likes cool weather and will withstand light fall frosts, looking best when others are fading. Good in a massed border. Direct seed or start indoors 6-8 weeks before setting out after danger of frost. Quick emerging and rugged. "Please do not discontinue cerinthe... It is my very favorite and perhaps the seed most responsible for my continuing love of the spring ritual of planting. Think of the bumblebees," exhorted Susan Barnett of Jacksonville, NY. Cerinthe stays! ~15 seeds/g. ⑤

A=0.6g, \$1.60 B=2.4g, \$5.00 C=7.2g, \$12.00

4965CY Firmament Chinese Forget-Me-Not *Cynoglossum amabile* Annual. Also known as Hound's Tongue. Uniquely bright dainty 5-petaled azure-blue blossoms. Floriferous throughout the summer with three blooms per cluster and a half dozen clusters per plant. Try alongside calendula for color contrast. Introduced by Ernst Benary. 1939 AAS. Start indoors 6 weeks before the last frost or direct seed outdoors in spring. Germinates in 5-10 days at 65-70°. Space plants 9" apart. Prefer full sun. 16-18". ~200 seeds/g. ②

A=1g, \$1.10 B=7g, \$2.40
C=28g, \$4.80

4968CL Chinese Lantern *Physalis alkekengi* Perennial, Zones 3-10. Grown for its deep orange "lanterns," the calyxes that surround the red fruits and hold their color when dried. *Physalis* is Greek for bladder, referring to these husks. May be sown indoors in warm place. Dig out every three years to prevent invasion. ~600 seeds/g. ③

A=1g, \$1.50 B=3g, \$3.50
C=9g, \$8.00



CLEOME *C. hassleriana*

Annual. The old-fashioned Spider Flower sets large open flower clusters with very long stamens atop 4' stalks. Blooms throughout the summer and likes the hot and dry conditions of midsummer. For better germination, prechill seeds in refrigerator. Do not cover seed. Likes alternating day (80°) and night (70°) temperatures to germinate. Will self-sow. ~450 seeds/g.

4982RQ Rose Queen ③

A=0.5g, \$1.40
B=7g, \$4.00
C=28g, \$10.20
D=112g, \$39.00

4985VQ Violet Queen Gorgeous in August. ③

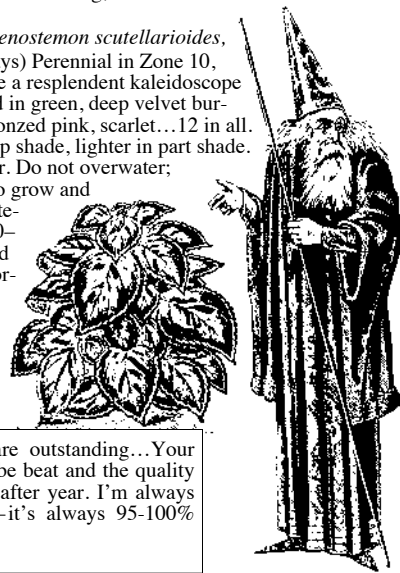
A=0.5g, \$1.40
B=2g, \$4.00
C=8g, \$6.20
D=32g, \$13.00

4988WQ White Queen ③

A=0.5g, \$1.40
B=2g, \$4.00
C=10g, \$6.20
D=50g, \$17.00

4992WI Wizard Coleus *Solenostemon scutellarioides*, formerly *Coleus blumei* (45 days) Perennial in Zone 10, grown as an annual. Leaves are a resplendent kaleidoscope of colors: rose and ivory edged in green, deep velvet burgundy centered with flame, bronzed pink, scarlet... 12 in all. The colors are strongest in deep shade, lighter in part shade. Germinate at 65°. Do not cover. Do not overwater; subject to damping off. Easy to grow and maintain. Just pinch off any late-season flower stalks. Grows 10-12", great in window boxes and planters. Nikos brings her favorites indoors before frost and enjoys their magic all winter long. ~3,500 seeds/g. ⑤

A=0.02g, \$2.20
B=0.1g, \$6.00



"You guys and your company are outstanding...Your service is great, your prices can't be beat and the quality of your seeds is outstanding year after year. I'm always amazed at the germination rate—it's always 95-100%... You are a national treasure."
—Lars Gustavsen, E. Burke, VT

COLUMBINE *Aquilegia* spp.

Perennial, Zones 3-10. Columbines are an essential part of the cottage garden or border. Their delightful flowers in mixed colors bloom in spring and dance above attractive lobed leaves. Easy to grow, likes moist well-drained soil, sun or partial shade. Need light to germinate; take 3-4 weeks. ~800 seeds/g.

4995SE Mrs. Scott Eliot Mixed *A. caerulea*

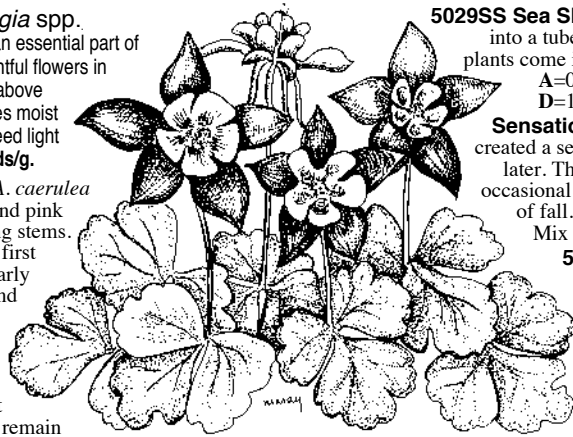
Free-blooming white, red, lavender and pink spurred flowers rising to 30" on strong stems. Prechill seed 3-4 weeks. Will bloom first season if seeds are sown indoors in early spring. Do not cover. Flowers May and June, attracts hummingbirds. ♀ ③

A=1g, \$1.60 B=3g, \$3.60
C=9g, \$8.00

4998EC European *A. vulgaris*

A better landscape plant than Mrs. Eliot or McKana Giants because its leaves remain green through the whole season. Spurless blossoms are mostly pink, with a few purples and whites. 2 1/2'. ③

A=0.3g, \$1.20 B=1.2g, \$3.00 C=6g, \$5.00



5029SS Sea Shells (100 days) If each petal on a Sensation were to curl into a tube, they'd have the striking delicate look of a Sea Shells. 3' plants come in the usual mix of pink, magenta and white shades. ♀ ②

A=0.5g, \$1.20 B=3g, \$3.30 C=12g, \$6.40
D=1oz, \$9.30

Sensation Mix (85-90 days) So named because its early maturity created a sensation when it first came out in 1930. Won AAS 6 years later. These large-flowered cosmos, in pinks, roses, magentas and occasional whites, need little tending. Withstand the first mild frosts of fall. 4-5'. Our second most-popular flower behind only Jewel Mix nasturtium.

5035SM Sensation Mix ②

A=1.4g, \$1.10 B=14g, \$3.00 C=56g, \$7.40
D=1lb, \$32.00

5036NO Sensation Mix OG CCOF-certified. *This is the last year we will offer as organic.* ③

A=1g, \$1.50 B=7g, \$4.00
C=28g, \$8.00 D=112g, \$24.00

5038BL Bright Lights Mix Cosmos *C. sulphureus*

A bright mix of 1 1/2-2 1/2" semi-double gold and orange flowers on 3-4' plants. Unlike the cosmos above, flowers form in loose clusters on lobed-leaved plants that are highly sensitive to frost. Tolerates dry soils. ②

A=1g, \$1.40 B=7g, \$3.60 C=28g, \$8.00 D=112g, \$22.00

5039TG Tango Cosmos *C. s. Luxuriant* flame-red free-flowering double blossoms wane to bright orange with yellow centers on wiry 18" stems that float above the deeply lobed dark green foliage. Ideal for cutflower production. 4' tall plants span almost 4 1/2' wide. When planted alongside zinnias, sunflowers and amaranth, they were spellbinding in my 2015 flower bed. Tango dodged a light September frost and continued its dance well into October, but *C. sulphureus* is sensitive to frost, unlike *bipinnatus* Cosmos above. ③

A=0.5g, \$1.40 B=3g, \$3.00 C=15g, \$7.00 D=60g, \$18.00

5041WD Klip Dagg *Leonotis nepetifolia* Also known as Lion's Ear, spectacular and exuberant with a series of orange tubular flowers clustered in collars along the stem. Surface sow; slow germinator needs light. Damaged by frost in the mid-20s and needs full sun to flower. Native to southern India and tropical Africa; traditionally used for cough, fever and malaria. Annual growing 1-5'. No cowardly lion here; in East African legend, Dagg imparts the qualities of a lion. This is the last year we will offer. *Seed in short supply; order early.* ~350 seeds/g. ③

A=0.05g, \$1.60 B=0.15g, \$3.30

5045HQ Harlequin Mix Dahlia *D. x hybrida* Tender perennial, Zones 8-10, grown as an annual. If you like to dally 'mongst the dahlias, these bicolored buffoons are sure to cheer you. Semi-double 2 1/2" blooms sit atop strong stems. Maroon-white and scarlet-yellow bicolors predominated in the trials but the mix also includes shades of orange, rose and violet. Early flowering 12-14" plants. ~125 seeds/g. ⑤

A=0.2g, \$2.30 B=0.8g, \$7.00 C=4g, \$23.00

SHASTA DAISY

Leucanthemum x superbum

Perennial, Zones 4-10. *Leucanthemum* means 'white flower' and the daisy, with its white petals and yellow centers, is a flower almost everyone can name. Provides great cuts and can serve as a long-lasting low-maintenance backbone in a perennial bed or border. The first man-made flower, developed by the legendary Luther Burbank from one Japanese and three European daisies. It took him 17 years.

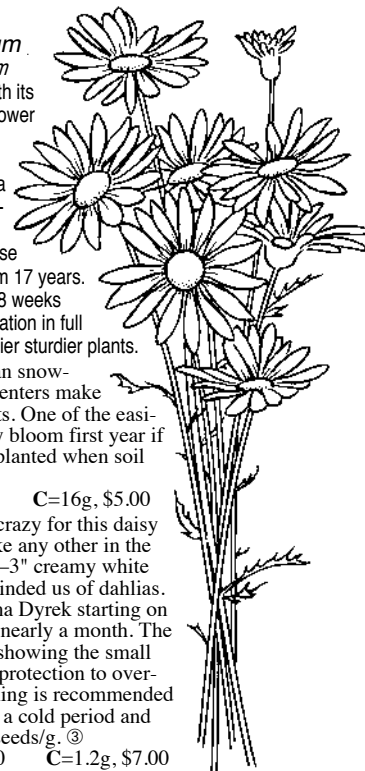
Culture: Start indoors in warm soil 6-8 weeks before setting out in a well-drained location in full sun. Pinch back in late spring for bushier sturdier plants.

5047SD Alaska Strain The clean snow-white flowers with bright yellow centers make cheery cutflowers and border plants. One of the easiest perennials to grow; will usually bloom first year if started indoors in spring and transplanted when soil warms. 3' tall. ~750 seeds/g. ②

A=0.5g, \$1.00 B=4g, \$2.50 C=16g, \$5.00

5049CD Crazy Daisy We're crazy for this daisy because its quilled petals are unlike any other in the Shasta class. Almost all of the 2 1/2-3" creamy white blossoms are fully double and reminded us of dahlias. Bloomed the second year for Donna Dyrek starting on July 6 and put on a good show for nearly a month. The later blossoms were less doubled, showing the small yellow centers more. Required no protection to overwinter in central Maine, but mulching is recommended for colder areas. 24-28" tall. Need a cold period and long days to initiate bloom. ~900 seeds/g. ③

A=0.1g, \$1.60 B=0.3g, \$3.50 C=1.2g, \$7.00



5007YP Yellow Prairie Coneflower *Ratibida columnifera* Perennial, Zones 3-9. One recent summer, I was enticed into a field by a yellow fluttering of dancing flowers on erect 1-3' slender stems. As I approached, I could see that the yellow petals merely skirted around a protruding cylindrical chocolate-brown center disk. The common name Mexican Hat evokes a tall sombrero and the lively and colorful Mexican Hat Dance. Prairie grasslands native likes full sun, blooms May through August, undaunted by drought. ~1,830 seeds/g. ②

A=1g, \$1.00 B=4g, \$2.60 C=16g, \$5.00

Coneflower Please see *Echinacea*, **4545-4547**, *Rudbeckia*, **5393-5399**.

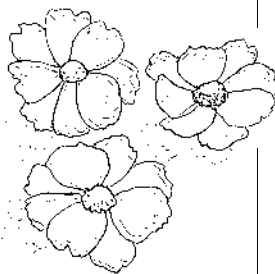
5012ES Early Sunrise Coreopsis *C. grandiflora* Perennial, Zones 3-10. Won 1989 AAS for its ability to bloom weeks earlier than other *Coreopsis*. Dense well-branched 18" plants are loaded with 2" semi-double vivid golden-yellow blooms loved by syrphid flies, lady beetles, lacewings, parasitic wasps and many other beneficials. Start indoors 8-10 weeks before setting out in sunny spot, 12-18" apart. Do not cover seed. For cuts, harvest when flowers start to open. PVP has expired. ~400 seeds/g. ♀ ⑤

A=0.1g, \$1.80 B=0.3g, \$3.80 C=0.9g, \$7.50

COSMOS *C. bipinnatus*

Annual. Sun-loving, free-flowering all summer, can serve as an accent, screen or cutflower. Colorful daisy-style flowers with yellow centers bloom amidst lacy cut foliage. Attracts a broad range of beneficial insects. **Culture:** For best results, thin its fast-growing large plants. Deadhead for persistent blooms. Harvest cutflowers when petals on first flower are just opening. Don't wait too long! Old blooms don't last. Vase life is 4-6 days. Light aids germination. May be started indoors at 70-75° (grow on at 60-65°) or direct seeded after last frost. Space 9-12". Tolerant of drought.

~140 seeds/g.



5021CR Cranberries Double Click My favorite color in this series, stunning dark maroon semi-double to fully double flowers have a lightly picotee edge. Not the earliest to bloom but well worth the wait. Temporarily set back by excessive rains but makes a good recovery. Strong stems with attractive ferny foliage grow 2-3'. Long-lasting in a vase. Bag tag limits seed to a one-time use. ⑤

A=0.2g, \$1.90 B=0.6g, \$3.80 C=3g, \$14.00

5023RB Rose Bonbon Double Click From the fabulous Double Click family. Luxuriant fluffy semi-double to fully double rose-colored blooms. Absolutely spellbinding. Bag tag limits seed to a one-time use. ⑤

A=0.2g, \$1.90 B=0.6g, \$3.80 C=3g, \$14.00

5024DC Double Click Mix (100-120 days) These double and semi-double award-winning flowers gain lots of attention with their puffy blooms in shades of pink, plum and white. With sturdy stems, excellent for cutting, and prolific bloom until frost, this superior mix makes garden visitors do a double take. 4' tall. Bag tag limits seed to a one-time use. ⑤

A=0.2g, \$1.90 B=0.6g, \$3.80 C=3g, \$14.00 D=12g, \$40.00

5027PI Picotee (90 days) A bicolor cosmos! Flowers vary in hue from white to pink to rose, with each serrated petal edged in contrasting magenta. Plants grow 4' climaxed by blooms 2 1/2-3" across. A beautiful addition to your cosmos bouquet. ♀ ③

A=0.5g, \$1.20 B=3g, \$3.00 C=15g, \$6.20 D=1oz, \$10.00

5028PW Psyche White Psyched for a pure-white cosmos with ruffled center petals plus thin raved outer petals that create a fluted effect? Looked good even in wet humid 2013. Occasionally sets single flowers. Psyche White may be the same cultivar offered by Burpee as White Queen in 1923. ♀ ③

A=0.5g, \$1.40 B=3g, \$3.50 C=15g, \$7.50 D=60g, \$25.00

DELPHINIUM x cultorum

Perennial, Zones 3-7. The Pacific Giants were developed in California in the '40s. Magnificent dense racemes make delphinium excellent in the border and as a cutflower. The name comes from the Latin for 'dolphin' and refers to the shape of the spur containing the nectar. Large raceme with many flowers. All parts of the plant are toxic if ingested, and can cause skin irritation.

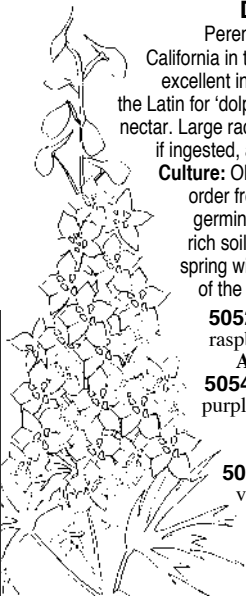
Culture: Old seed goes dormant and is very hard to reawaken so order fresh seed each year. Prechill seed for 2-4 weeks, then germinate at 65-75° and grow on at 50-60°. Likes sun, moist rich soil, can tolerate some shade. Heavy feeder; sidedress in spring with well-composted manure. Harvest when one quarter of the flowers are open. ~450 seeds/g.

5052AD Astolat Pacific Giant Pastel mix in lilac, raspberry and rose with dark bees. 6'. ©
A=0.2g, \$1.50 B=0.6g, \$3.60 C=1.8g, \$8.00

5054KN Black Knight Pacific Giant Intense dark purple with black bees. Stately and breathtaking. 6'. ©
A=0.2g, \$1.50 B=0.6g, \$3.60
C=1.8g, \$8.00

5059CY Connecticut Yankee Mix Dwarfed version grows only 3'; good where wind is a problem. 1965 AAS in blue, purple, lavender and white. ©

A=0.25g, \$1.80 B=1g, \$6.00
C=3g, \$12.50



DIANTHUS spp.

The name comes from the Greek meaning 'divine flowers.' Some are carnations; some are commonly known as Pinks, not for their color, but for their serrated petal tips which look like they've been cut with pinking shears. All have fabulous fragrance.

5061SW Double Choice Mix Sweet William *D. barbatus* Biennial, Zones 4-10. A fragrant self-sowing biennial with familiar flat-topped flower clusters in red, pink, white, lavender or mixed colors. Germinates in 7-14 days at 70°. May be started 2 months before setting outdoors, or direct seeded in late summer or fall. Requires full sun and good drainage; likes lime. 18". ~930 seeds/g. ©

A=0.5g, \$1.00 B=7g, \$2.50 C=28g, \$6.00

5063RG Reisen Giant Superb Mix *D. caryophyllus* Perennial in Zones 8-10, grown as an annual. 20" plants produce fully double fringed carnations in an array of colors (red, violet, rose, white and bicolor) with corresponding differences in fragrance. The perfumed clove scent of the red is the most tantalizing, reminiscent of the exquisitely scented flowers that one reads about in old horticultural lore. ~500 seeds/g. ©

A=0.2g, \$1.40 B=1g, \$3.00 C=3g, \$5.50

5065RL Rainbow Loveliness Mix *D. x hybrida* Annual. Rainbow Loveliness has fragrance—glorious, heavenly, sinfully delicious, intoxicating, jasmine—and good looks. "Swallowtails loved them," observed Jillian Forman of Young Sapling Farm, Rexville, NY. The lilac-white, which we grew, sports deeply fringed white blooms with hints of pink at the tip and a greenish center eye, creating a wispy feathery effect. This mix of border pinks also includes strains of carmine, pink and bicolored 1 1/2" blooms in loose clusters. Blooms late July from early June transplanting. 14". ~1,200 seeds/g. ©

A=0.02g, \$1.20 B=0.1g, \$3.00

5066SP Superb Pink *D. superbus* Perennial,

Zones 3-8. I swooned over these feathery blooms, with their strong jasmine scent and deeply fringed single petals. Vibrant colors of deep red, white, magenta, purple and rose make the mix of 1 1/2" star-shaped blossoms with prominent anthers. Each corolla sits upon an elongated peduncle like a miniature vase filled with perfumed petals. Stalwart stems lend well to cutting. Prolific and even frost hardy, these dianthus grow knee high and spread 16" wide. Plant near your walkways in full sun, and enjoy the sweet fragrance as you brush past. ~2,000 seeds/g. ©

A=.05g, \$1.20 B=0.2g, \$2.50
C=1g, \$4.00 D=4g, \$10.00



5067DI Lacy Blue Didiscus *Trachymene coerulea* (95 days) Annual. Also known as Blue Lace Flower, introduced from Australia in 1828. Looks like a light blue version of Queen Anne's Lace. Airy flower heads on 2' stems floating like a blue mist above attractive finely cut foliage are excellent for cutting. Start indoors or direct seed after danger of frost. Transplant 8" apart. Likes full sun. ~360 seeds/g. ©

A=0.25g, \$1.30 B=1g, \$3.20 C=3g, \$6.00 D=15g, \$15.00

5072DR Drumstick Flower *Crespedia globosa* (100 days) Drumroll, please. The globular dimpled 3/4" yellow flower heads set atop durable 18" stems do look a bit like they could mark out a paradiddle or two. But better use would be as a carefree garden accent with a prolonged bloom, or brought inside in a long-lasting bouquet. They also dry well, retaining their color. A tender perennial in Zones 8-11 that blooms almost the entire year. In less temperate climes start indoors 6-8 weeks before the last frost. ~1,700 seeds/g. NEW!

A=0.1g, \$1.70 B=0.3g, \$4.80 C=1.2g, \$18.00

5075KJ Kilimanjaro Euphorbia *E. marginata* Annual. Also known as Snow-on-the-Mountain. A foliage plant grown for its ovoid green leaves that quickly become outlined in striking white. Interplant with bright flowers for good contrast. Well adapted to poor or average soils; grew about 2' in my dry raised beds but capable of reaching a foot taller. Janine Welsby said it repelled rodents from her sweet potatoes. Long-lasting in a vase where it provides valuable filler with good color base. Will self-sow. Start indoors at 60-68°, grow on at 60°. Can be an erratic germinator, taking 10-14 days, sometimes much longer.

Transplant out after danger of frost. **Caution: the milky sap may cause itching or rash for sensitive individuals. Do not rub your eyes after handling.**

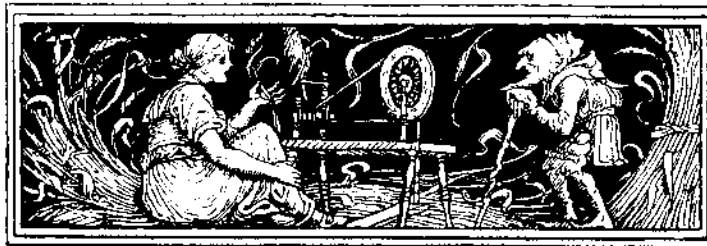
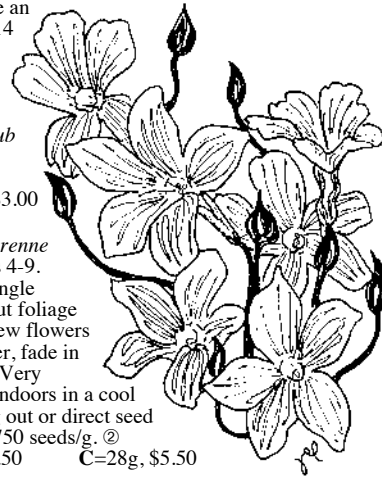
~50 seeds/g. ©

A=0.3g, \$1.30 B=0.9g, \$3.00
C=4.5g, \$4.20

5079BF Blue Flax *Linum perenne* subsp. *lewisii* Perennial, Zones 4-9.

Also known as Prairie Flax. Single light-blue flowers and finely cut foliage for borders or rock gardens. New flowers open every morning all summer, fade in afternoon heat. Likes full sun. Very drought tolerant. 9-12". Start indoors in a cool place 6-8 weeks before setting out or direct seed in cool soil in spring or fall. ~750 seeds/g. ©

A=1g, \$1.10 B=7g, \$2.50 C=28g, \$5.50



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- **Can I order by phone?** No. To keep our product costs low and our order fulfillment accurate, Fedco does not take orders by fax or phone.
- **Can I order all products on one order form?** No, Fedco has different branches that operate out of different warehouses on different seasonal schedules. Help us keep our costs down and our prices low by sending orders on each branch's own order form.

Key to abbreviations and symbols in the catalog

- OG** after cultivar name = entire lot is certified-organic seed. See page 86 for a key to abbreviations of certifying agencies and for more information about the OG and ECO designations.
- ECO** after cultivar name = entire lot is sustainably grown seed.
- BD** after cultivar name = entire lot is biodynamically grown seed.
- PVP** = Plant Variety Protected. Unauthorized propagation of the seed is prohibited. The use of PVP in the catalog is for informational purposes only and in no way constitutes an endorsement by Fedco of plant patenting.
- AAS** = All-America Selection.
- ✱ indicates cold-hardy through at least part of the Maine winter. See list on page 45 for more information.
- ☞ = a variety introduced by Fedco followed by the year first offered.
- Ω = a variety grown and supplied by the plant breeder. More on page 39.
- ☼ = a variety especially attractive to pollinators.
- ~ = approximately

FLOWERING CABBAGE & KALE

Brassica oleracea

Biennials grown as annuals. Sometimes used for garnishes or in salad mixes. Well adapted to cold climates, they are at their best when most flowers have given in to fall frosts. ~350 seeds/g.

5082FC Flowering Cabbage Mix Good ornamental for our climate. The colors—green outer leaves and pink, white or purple centers—deepen at the onset of chilly autumnal nights. Start indoors 5–7 weeks before setting out in midsummer for fall maturity. While weather is still hot, sidedress with manure so the plants will make rapid growth before nights begin cooling. As autumn approaches, withhold nitrogen to speed coloring. 10". ③

A=0.25g, \$1.40 B=1g, \$3.20 C=4g, \$5.50

5084RC Red Chidori F-1 hybrid. Flowering kale is called *Ha-Botan* in Japan, meaning 'leafy peony.' The Japanese are world leaders in hybridizing these ornamentals, and in Red Chidori they have brought their work to its ultimate expression. Chidori had the brightest purple outer leaves and the sharpest red centers of any we tried. These colors reach their zenith shortly after frost when other garden hues are fading. Red Chidori leaves have finely ruffled edges that further accent their beauty. Allow enough space to grow 8–12" high and 12–14" across. ⑤

A=0.2g, \$2.20 B=1g, \$6.50



5091FN Forget-Me-Not *Myosotis sylvatica* Perennial, Zones 3-9. The older I get, the more I want to be surrounded by plants that care for themselves. This little charmer, a biennial or short-lived perennial that self-seeds for many years, fits the bill. Excellent grown in a mixed border, where they peek out atop 6" stems with clusters of sky-blue color. They tolerate a wide range of conditions and grow in both sun and shade. Now if only I can remember not to weed them out the following spring. ~1600 seeds/g. ②

A=0.1g, \$1.10 B=0.5g, \$2.80 C=3g, \$5.50

5095FC Tall Mix Four O'Clock *Mirabilis jalapa* Annual. Also known as Marvel of Peru. The plant is anything but timid. Breck's in 1885 called it "a very desirable plant where there is plenty of room," and suggests each specimen should stand singly 3' apart. The fragrant trumpet-shaped flowers, in bright shades of cerise, burgundy, pink, yellow and white, open in late afternoon, reaching peak glowing loveliness at dusk. The 2–3' plants make good background or annual hedge. Start indoors, transplant out when warm weather has settled in. Likes full sun. Will self-sow in warmer areas. Drought-tolerant. ~17 seeds/g. ②

A=3g, \$1.00 B=9g, \$2.50 C=27g, \$5.00 D=135g, \$12.00

GAILLARDIA spp.
Also known as Blanketflower. Low-maintenance prairie native likes light dry well-drained soil and full sun.

5097BG Burgundy *G. aristata* Perennial, Zones 4-10. When I first laid eyes on this in a nursery, it stood out from the pack. Burgundy has all the toughness of a prairie native enhanced with the solid deep wine color of a sophisticated garden-tour specimen. 3–4" daisy-like flowers bloom all summer on 2–3' plants. A favorite of butterflies and of gardeners who like to bring cutflowers inside. Plant 18–24" apart. ~280 seeds/g. ③

A=0.25g, \$1.40 B=1g, \$3.50 C=4g, \$7.00

5100ND New Day Formula Mix *Gazania rigens* Annual. Open-faced single blooms worship the sun in their daily salutations. Shades of bronze, orange, yellow, mauve, white and sepia all with yellow centers, and some with darkened petal bases, create a dynamic display. Its impressive drought tolerance shined with a steady bloom performance beginning in early July and continuing through the nearly rainless August and September. These easy-to-grow short 8–10" plants with leathery dark green leaves keep tidy along sunny garden edges and are ideal for color in patio containers. Coated seed. ~175–225 seeds/g. ⑥

A=0.1g, \$1.90 B=0.5g, \$5.40 C=2g, \$18.00



GLOBE AMARANTH *Gomphrena globosa*

Annual. Beautiful round clover-like 1" flowers on 2' stems perfect for drying. Also enjoyable as bedding plant. We've chosen for earliness, floriferousness, compact habit and good stem length.

Culture: Easily grown in any soil, likes hot sun, blooms prolifically. Tolerates dry weather and some frost. Chill seed 4–6 weeks at 40°, then start indoors at 60–70° for best germination. Germination is erratic; can take from 7–30 days. Grow on at 55–60°. Do not overwater. Transplant in 8–12 weeks, spacing at 12–18". ~200 seeds/g.

5102PG Las Vegas Purple ②
A=0.1g, \$2.00 B=0.4g, \$5.50 C=1.2g, \$13.00

5104QG QIS Red Vibrant strawberry-red profuse blooms. QIS stands for Quality In Seed. Enormously popular with commercial growers. ③
A=0.1g, \$1.30 B=0.4g, \$2.80 C=1.2g, \$6.00

Las Vegas White Dropped for slow sales. *No longer available.*

5109MG Las Vegas Mix Three vibrant colors: pink, purple and white. ②
A=0.1g, \$1.80 B=0.4g, \$5.20 C=1.2g, \$13.00

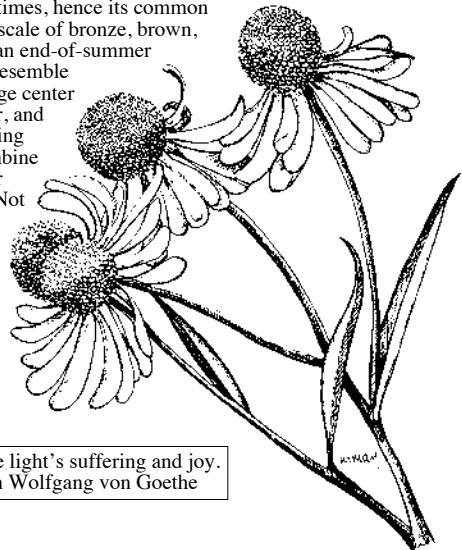
5112GB Goatsbeard *Aruncus dioicus* Perennial, Zone 4-8. Eastern North America native looks much like a 6' astilbe, with cream-colored plumes on bushy plants. Often called Bride's Feather because of its June bloom time, it continues and extends the blossom range and beauty of a shade garden into the summer—an eagerly sought attribute. The plants are either male or female, with the male flowers producing showier blooms than the female. Prefers full sun to part shade, and moist fertile soil. The 4–6' clumps are easy to maintain and fairly resistant to animal predation. ~9,000 seeds/g. ③
A=0.1g, \$1.20 B=0.3g, \$3.00 C=1.5g, \$6.00 D=6g, \$14.00

5113SS Sunburst Heliopsis *H. scabra* Perennial, Zones 4-9. A most unusual heliopsis that sports variegated foliage featuring patterned bright green veins etched against a white background. Masses of bright yellow daisy-like flowers with darker centers stand above the foliage to complete its arresting display. Bushy plant grows slowly the first year to 15–18" but continues up to 4' in subsequent seasons. Donna's first bloom was July 12 from an April 8 start. It was still flowering in October. ~230 seeds/g. ⑥

A=0.1g, \$2.70 B=0.4g, \$8.60 C=1.2g, \$25.00

5116MH Marine Heliotrope *Heliotropium arborescens* (120 days) Tender perennial, Zone 9-10, grown as an annual. Native to Peru, an old-fashioned scented flower with a rich history. The aroma fills the garden on a cool damp day. Victorians edged their rose beds with heliotrope and it is still cultivated in Europe for perfumery. Smells like sweet violet, but deeper, and has been described as similar to vanilla, almond or cherry pie. Works well in hanging baskets, containers, the front of borders or any location where the scent will readily reach you. It may be transplanted indoors for the winter. 14–18" plants with deeply etched viburnum-like dark green leaves bear big flat clusters of tiny star-shaped royal blue flowers. Somewhat slow, erratic germinator, takes at least 2–3 weeks. ~1,500 seeds/g. ③
A=0.1g, \$1.50 B=0.6g, \$4.20 C=3g, \$10.00

5119HF Helen's Flower Mix *Helianthemum autumnale* Perennial, Zones 3-10. Offered in the past as Sneezeweed. Also known as Sunny Bride. Supposedly used for snuff in earlier times, hence its common name. A rich chromatic scale of bronze, brown, crimson and yellow for an end-of-summer display. Single flowers resemble Coreopsis but have a large center "button" like coneflower, and cover the tops of branching upright 4–5' plants. Combine with asters and phlox for great late-season color. Not fussy, easy to grow, excellent for cutting. At its prime when most perennials have finished blooming. Generally a low germinator; needs 2–3 weeks. ~5,000 seeds/g. ③
A=0.05g, \$2.50
B=0.2g, \$9.00



Colours are light's suffering and joy.
—Johann Wolfgang von Goethe

Supplier Codes Know where your seed comes from! See page 4 for details.

- ① Small seed farmers including Fedco staff.
- ② Family-owned companies or cooperatives, domestic and foreign.
- ③ Domestic and foreign corporations not part of a larger conglomerate.
- ④ Multinationals not to our knowledge engaged in genetic engineering.
- ⑤ Multinationals who are engaged in genetic engineering.
- ⑥ Manufacturers of neonicotinoids: Bayer and Syngenta.

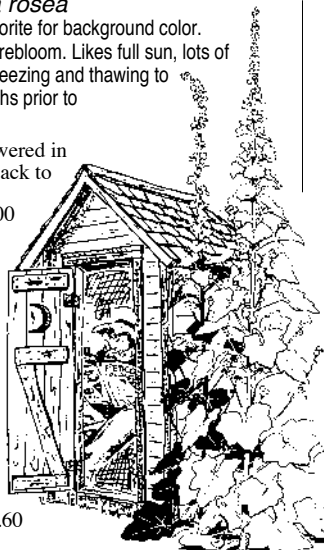
HOLLYHOCK *Alcea rosea*

Biennial, Zones 3-8, often reseeds. An old-time favorite for background color.
Culture: Needs staking. Cut flower stalk to induce rebloom. Likes full sun, lots of room, and moist soil. Seed may require alternate freezing and thawing to break dormancy. Start indoors in a 70° spot 2 months prior to transplanting. ~105 seeds/g.

5122CD Chater's Double Mix Double flowered in shades of red, pink, yellow and white. Dates back to the 1880s. 4-5'. ③
 A=1g, \$1.50 B=5g, \$3.80 C=15g, \$9.00

5124SM Indian Spring Single Mix Old-fashioned single 7' beauty in shades of red, yellow, white and rose. Favored by hummingbirds. 1939 AAS. ☆ ②
 A=0.25g, \$1.20 B=1g, \$2.80 C=3g, \$5.50

5127BH Black Hollyhock *A. r. var. nigra* Heirloom with shimmering burgundy-black single flowers. Lasts 3-4 years in favorable conditions. Surface sow inside in April. Overly rich potting mixes will encourage damping off. May be the same black hollyhock grown by Thomas Jefferson at Monticello. ☆ ③
 A=0.25g, \$1.30 B=1g, \$3.00 C=4g, \$6.60



5132HY Honesty *Lunaria annua* Biennial, often grown as an annual, for everlasting arrangements. Also known as Silver Dollar, Money-plant and Moonwort. Could be the solution to our national economic woes if only its silver seed pods were legal tender. Honesty is a winter-hardy biennial with fragrant lavender flowers usually grown for its large coin-shaped seed pods that shimmer in winter bouquets. Sow indoors at 65-70°, grow on at 60° at night before setting out to a sunny location, or direct sow spring or fall. Depending on conditions, may not flower until second year. 3'. As for an honest and courageous politician? Try Bernie Sanders or Elizabeth Warren. ~50 seeds/g. ②
 A=1g, \$1.10 B=14g, \$3.30 C=42g, \$6.50

IMPATIENS *I. wallerana*

Perennial in Zone 10, grown as an annual. Impatiens is named for the way its seeds pop explosively out of their ripe pods. Freely branching 8-10" plants.

Culture: Thrives in shade and requires little care. Start indoors, need light so surface-sow, 70-80°, takes 14 days to germinate, provide even moisture, do not overfeed, set out after danger of frost. Pinch blooms before they go to seed for best display. ~1,600 seeds/g.

5142SE Paradise Mix F-1 hybrid. Bring a bit of tropical color into your garden with this new mix in the Super Elfin series. Lavender, fuchsia, violet and cantaloupe-colored flowers. ⑤
 A=0.03g, \$2.40
 B=0.15g, \$8.50



5144JL Blue Pearl Jacob's Ladder *Polemonium caeruleum* (90 days) Perennial, Zones 3-8. A staple of the shade garden in cooler climates. Where so few plants flower, Blue Pearl shines. Sky blue 1-1 1/2" cup-shaped blooms with distinctive gold stamens flower from late spring to early summer except in extreme heat. The long-lived compact 1' plants perform best in partially shaded borders, at the edge of woodlands or at the base of small shrubs or roses. Space 1' apart. Called Jacob's Ladder for the arrangement of parallel leaflets along the stem. Makes a beautiful cutflower. ~850 seeds/g. ③
 A=0.1g, \$1.40 B=0.5g, \$3.30 C=2g, \$5.50

5147JO Job's Tears OG *Coix lacryma-jobi* (100 days) Perennial in Zone 9-10, grown as an annual. Named for the Greek *coix* which means 'palm,' this ornamental grass's foliage resembles corn with blades up to 1 1/2" wide. Spiky 2-3' stalks good for planters or as filler in dried fall arrangements. Sets pendulous sprays of globular pearly purple-grey seeds, the tears, which may be strung as beads for necklaces. A great favorite of kids who love to harvest the seeds. Start indoors in late March or early April. Forgiving and easy to grow. Believed to be one of the oldest grasses in cultivation, featured in seed catalogs for almost two centuries. Our thanks to Alicia McDonald of Whately, MA, who sent us seed. MOFGA-certified. ~5 seeds/g. ①
 A=2g, \$1.40 B=6g, \$3.50 C=24g, \$9.80

Colours change: in the morning light, red shines out bright and clear and the blues merge into their surroundings, melting into the greens; but by the evening the reds lose their piquancy, embracing a quieter tone and shifting toward the blues in the rainbow. Yellow flowers remain bright, and white ones become luminous, shining like ghostly figures against a darkening green background.
 -Rosemary Verey

5150QM Joe Pye Weed *Eupatorium purpureum* Perennial, Zones 4-9. Also known as Queen of the Meadow or Gravel Root. A "queenly" native: stately, tall and beautiful, with dense florets of dusty pinkish-purple flowers and foliage that releases the scent of vanilla when crushed. At 5-9' tall, makes an impressive background plant and a good cutflower. Medicinally, the root is used to treat chronic irritable bladder, urinary infections, kidney stones, menstrual cramps and prostate infections. Also stimulates circulation and reduces inflammation. Does best in moist well-drained areas, full sun or part shade. Surface sow in spring or fall; needs stratification unless sown in fall; takes 3 weeks to germinate; direct seed or transplant. ~2,809 seeds/g. ☆ ②
 A=0.02g, \$1.50 B=0.1g, \$3.30 C=0.4g, \$6.50

5152HM Helen Mount Johnny-Jump-Up *Viola tricolor* Perennial, Zones 3-9. Also known as Heartsease Pansy. This 4-6" favorite bears tri-color blooms in violet, lavender and canary yellow. Small abundant flowers like partial shade. Can be direct seeded early spring for flowers late in season or sown in fall for earlier blooms the following year. Some call it invasive, others enjoy its cheerful spreading habit. Flowers make edible decorations with a faint wintergreen taste. ~900 seeds/g. ②
 A=0.5g, \$1.20 B=1.5g, \$3.00 C=4.5g, \$5.00

5154KM Kiss-me-over-the-Garden-Gate *Polygonum orientale* Annual. It is easy to imagine an amorous meeting amongst the shelter of these 6-7' annuals, surrounded by large tassels of lightly scented pink blossoms and heart-shaped leaves! Looks like a beautiful giant Smartweed. Our answer to the customer who gave us the best advice we've ever received: "Breathe and laugh a lot. Kiss someone pretty." Although transplanting temporarily sets it back, it grows vigorously to take up a full square yard at maximum size. Blooms from July to frost, sometimes self-sows. Start indoors at 70-75°, covering the seed, keeping soil moist till emergence. Fussy, slow, erratic germinator. Germination can be improved by stratifying for three weeks. Likes full sun or light shade. Native to China. Offered by Burpee in 1935 for 15¢ per packet as Ruby Gem. ~20 seeds/g. ③
 A=1g, \$1.70 B=3g, \$4.00 C=12g, \$8.00



LARKSPUR *Consolida* spp.

Annual. Formerly known as *Delphinium consolida*. Delphinium-like long-stemmed flower spikes are used as cutflowers or in dried arrangements. Upright 3-4' tall plants. The Giant Imperial series features long racemes of double flowers. **Culture:** Likes cool moist conditions. Very slow to give in to fall frosts. May be direct seeded in early spring or started indoors and grown on at 55° and set out in 8 weeks. Does not germinate well in warmer temperatures. Refrigerating for a week improves germination. Cut when one third of the flowers on the stem are open. For cuts, vase life is 6-8 days. Excellent for drying. ~330 seeds/g except for Blue Cloud.

5160EG Earl Grey *C. ajacis* For that kind of cloudy day on the Maine coast when subtle "cool" colors come into their own and the grey chill invites you to curl up with a cup of Earl Grey tea. This pearly grey-lavender larkspur on tall stalks fits nicely into such an atmosphere, its delicate shades revealing their shimmering clarity. Maybe enjoying them in a bouquet is your cup of tea. ③
 A=0.1g, \$1.40 B=0.5g, \$3.30 C=3g, \$6.60

5162BS Giant Imperial Blue Spire *C. a.* Dark blue. ③
 A=1g, \$1.40 B=4g, \$3.40
 C=16g, \$7.00 D=64g, \$24.00

5168MX Giant Imperial Mixed *C. a.* Pinks, purples, blues and white make a beautiful background and are good for cutting. ②
 A=1g, \$1.20 B=4g, \$2.80
 C=16g, \$5.00 D=4oz, \$24.00

5169BC Blue Cloud *C. regalis* Blue Cloud doesn't shoot up a single spike like most larkspurs. Instead it sends flocks of bushy 5-petaled rich blue 1/2" florets on wispy foliage, which *en masse* give the effect of clouds. Its tiny seed pods are equally decorative. Will self-sow vigorously. ~800 seeds/g. ③
 A=0.1g, \$1.30
 B=0.5g, \$3.00
 C=5g, \$6.80
 D=50g, \$20.00



LAVATERA *L. trimestris*

Annual. Also known as Herb Treemallow; botanical name honors the 16th-century Swiss naturalist brothers Lavater, and its three-month bloom time in warmer climates.

Culture: Every stalk is covered with single funnel-shaped blossoms. Cut when flowers are unfurling or have just begun to bloom. Vase life is one week. Will survive light fall frosts. Start indoors at 70–72° 8 weeks before setting out, growing on at 65–70° days and 60° nights, or direct seed in sunny spot. Space 18–24". ~150 seeds/g.

5171LM Mix More than 80% pink shades (some light and some dark) and the remainder white. An explosion of exotic blooms on 2' tall bushy plants, great for borders. Lasts in bouquets after most others have shrivelled. ©

A=1g, \$1.20 B=4g, \$3.00 C=16g, \$5.00 D=64g, \$12.00

Tanagra Dropped for slow sales. *No longer available.*

Lavender See 4585 and 4586.

5180CP Crystal Palace Blue Lobelia *L. erinus* Perennial in Zones 9–10, grown as an annual. Named for the Flemish botanist Mathias de l'Obel who was a physician to King James I of England. An old variety, offered by Henderson in 1902 for a dime per packet. With bronze-green foliage and a profusion of stunning deep blue flowers, this is the perfect window-box plant. 4" tall, great for edgings, walks and borders. Needs light to germinate. Tolerates some shade. Cannot stand frost. ~30,000 seeds/g. ©

A=0.2g, \$1.50 B=1g, \$3.30 C=4g, \$6.00 D=28g, \$28.00

5182RS Ruby Silk Lovegrass *Eragrostis tef* Tender perennial, Zones 10–11, grown as an annual.

The romance is in the gracefully curving lines of this feathery grass with 18" stems bejeweled with sprays of iridescent burgundy seed heads. Nikos was entranced by their shimmering red display in the field.

Early and persistent, seed heads began on July 10 from an April 11 start and continued into October. Although their luster fades a bit in dried arrangements, the burgundy color endures. If your love life has been a little lacking of late, maybe Ruby Silk is just the charm it needs. ~3,750 seeds/g. ©

A=0.1g, \$1.60 B=0.5g, \$3.60 C=2g, \$6.50

LOVE-IN-A-MIST *Nigella* spp.

Annual. Everlasting grown especially for its spiky decorative seed pods. Germinates 10–14 days at 60°. Grow on at 60–65°. Set transplants 6–9" apart.

5184PJ Persian Jewels Mix *N. damascena* (70 days) Profuse blooms in pink, blue and white shades surrounded by a cloud of greenery make lovely bouquets. Seed heads are used dried and are especially nice with a little bit of the flower attached. Direct seed as soon as ground can be worked, or sow indoors in a cool spot 2 months prior to setting out. Plant in full sun. 18".

~760 seeds/g. ©
A=0.4g, \$1.10
B=2g, \$2.90
C=14g, \$5.50

5187EX Exotic

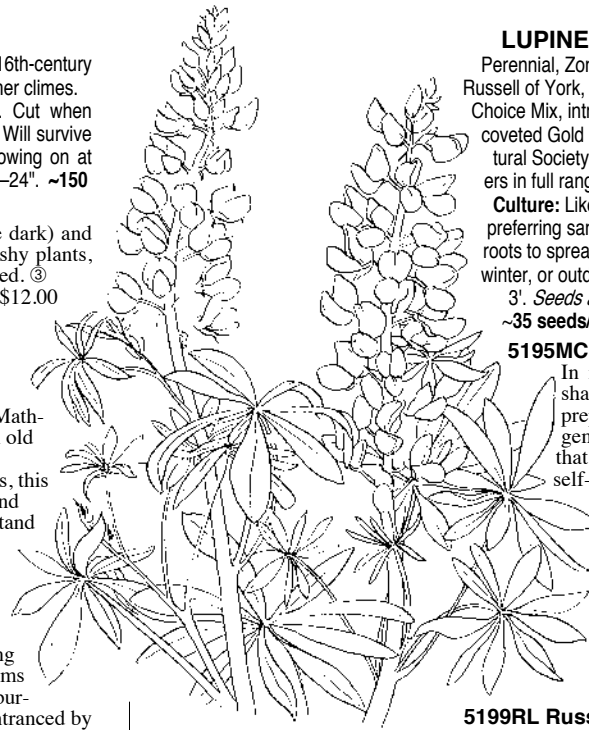
N. hispanica Exotic's golden-brown pods are similar to velvetleaf's wonderful starry seed pods except with long fancy tendrils. Will add interest and volume to any dried arrangement. Unlike velvetleaf, this annual won't be a nuisance in the field. Doubles as a cutflower with open form, striking maroon stamens and an arresting shade of deep blue, almost purple. Atop 16" stems, the blossoms hold longer in a bouquet than other kinds of Love-in-a-Mist. Likes full sun or light shade. ~900 seeds/g. ©

A=0.1g, \$1.50
B=0.4g, \$4.40
C=2g, \$12.00



"My first order from you. Easy. Some varieties I had been especially looking for. I love your catalog. I do wish the meaningless and overused word 'unique' was absent from it. Thanks much."

—Russell Hayes, Lexington, KY



LUPINE *Lupinus polyphyllus*

Perennial, Zones 4–9. Lupine fanatic George Russell of York, England, bred Russell Hybrids Choice Mix, introduced it in 1937 and won the coveted Gold Medal from the Royal Horticultural Society. Dense spikes with large flowers in full range of colors.

Culture: Likes a cool moist spot in full sun, preferring sandy soil with ample room for its roots to spread. Can be sown indoors in late winter, or outdoors in early spring or late fall.

3'. *Seeds and seed pods are poisonous.* ~35 seeds/g.

5195MC My Castle Red Russell

In most lupine mixes the red shades are overshadowed by a preponderance of blues. The genetics of lupines are such that, as a patch crosses and self-sows, over time the blues will dominate. So now you can revitalize your patch with a new burst of red. Or, grown separately where they will not cross, you can maintain a solely red patch. ©

A=1g, \$1.40
B=4g, \$3.80
C=16g, \$7.00

5199RL Russell Hybrids Choice Mix

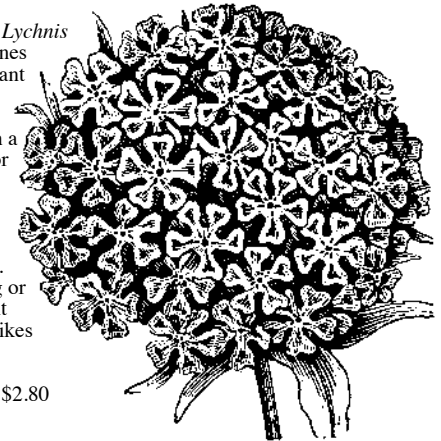
Mostly purple blooms with some bicolors in magenta, white and pink. ©

A=1.4g, \$1.20 B=7g, \$3.00 C=28g, \$6.00

5203MC Maltese Cross *Lychnis chalcedonica* Perennial, Zones

3–10. Desirable 3' border plant attracts hummingbirds and butterflies by producing brilliant scarlet florets, each a five-part cross. Excellent for cutflowers. Makes a hot color combination with Rudbeckia and Coreopsis. Thomas Jefferson grew these at Monticello in 1807. Start indoors in early spring or midsummer for blooms next year. Do not cover seeds. Likes moist soil and full sun.

~2,000 seeds/g. ☆ ©
A=0.4g, \$1.10 B=2g, \$2.80
C=6g, \$5.00



Seed Longevity for Herbs and Flowers

This information was hard to find. We have integrated results from several tables with our own first-hand knowledge drawn from testing old lots for germination. Seeds stored in less than ideal conditions will have shorter life spans. Plant name is followed by years.

| | | | | | |
|-------------------|-----|--------------|-----|----------------------|-----|
| achillea | 2 | delphinium | 1 | oregano | 2 |
| alyssum | 3 | dianthus | 3 | pansy | 2 |
| amaranth | 3-5 | didiscus | 3 | petunia (unpelleted) | 5 |
| anise | 3 | digitalis | 2 | phlox | 1 |
| aster | 1 | dill | 3 | poppy | 3 |
| baby's breath | 2 | fennel | 3 | portulaca | 3 |
| bachelor's button | 3 | four o'clock | 2 | rue | 2 |
| basil | 5+ | gaillardia | 2 | sage | 3 |
| borage | 5+ | hollyhock | 3 | salpiglossis | 3-5 |
| calendula | 3 | honesty | 2 | salvia | 1 |
| campanula | 3 | impatiens | 2 | savory | 3 |
| candytuft | 2 | larkspur | 1 | snapdragon | 3 |
| caraway | 3 | lavatera | 3-5 | statice | 2 |
| catnip | 5 | lavender | 5 | stock | 3 |
| celosia | 3-5 | lemon balm | 5 | strawflower | 2 |
| chinese lantern | 1 | lobelia | 3 | sweet pea | 3 |
| chives | 1 | lupine | 2 | sunflower | 3 |
| cilantro | 5+ | marigold | 3 | thyme | 3 |
| columbine | 2 | marjoram | 3 | tithonia | 2 |
| coreopsis | 2 | nasturtium | 3-5 | zinnia | 3-5 |
| dahlia | 2 | nicotiana | 3 | | |
| daisy | 3 | nigella | 1 | | |

MARIGOLD *Tagetes* spp.

Annual. "We do not consider a flower garden complete without the good old-fashioned French and African marigolds."—Breck's, 1885. Good for bedding, for cuts, in planters or borders. Their warm colors cheer all summer long and positively blaze in the light of early autumn. Native to the Americas and said to have been sacred to the Aztecs. In 1939 Burpee's Red and Gold hybrid was the first hybrid flower from seed offered commercially in the United States. **Culture:** Fast and easy to grow from seed. Sow after soil has warmed, or inside in a warm (75–80°) spot, 3 weeks before setting out after danger of frost. Likes heat and full sun. Tolerant to drought. ~300 seeds/g unless otherwise noted.

African Marigold *T. erecta*

Tallest of the marigolds with largest leaves and flowers. Blooms are fully double and 3–4" across, resembling carnations. Plants make a bold highlight in large borders and crank out cuts.

Crackerjack Mix Early mix of orange, gold, yellow. Large fully doubled flowers on tall 30" plants that rarely need staking.

5211CR Crackerjack Mix ⓐ

A=1g, \$1.10 B=14g, \$3.00 C=56g, \$6.50

5212CO Crackerjack Mix OG *This is the last year we will offer organic seed of this variety.* CCOF-certified. ⓐ

A=1g, \$1.30 B=7g, \$3.00
C=28g, \$6.80 D=112g, \$15.00

5213FL First Lady 1968 AAS, later voted the all-time favorite AAS flower. Lovely 20" border or hedge plant, covered with sunny yellow 3 1/2" double flowers that keep coming till frost. ⓐ

A=0.1g, \$2.90 B=1g, \$17.00

5216NC Inca II Mix Fitting sequel to the original Inca series, but stronger, earlier by 7–10 days, and more compact with a new primrose-yellow joining the original yellow, orange and gold. Produces enormous 4" fully double brilliantly colored blooms. Great for massed borders, these compact 12x14" plants allow you to pack them in. Remove spent flowers to promote new blossoms and maintain a clean look. Likes moist well-drained soil. Withstood the 2011 hurricane deluges with exceptional aplomb. ~400s/g. ⓐ

A=0.1g, \$2.70 B=0.3g, \$7.00 C=1.2g, \$20.00

5219VA Vanilla Formerly known as Sweet Cream and actually resembles sweet creamy farm milk—outstanding off-white color. Profuse large 3–4" double blooms on stocky 18" plants until frost. Use for cutting or keep deadheaded to maintain Vanilla's classy good looks. ⓐ

A=0.05g, \$2.70 B=0.2g, \$7.00

French Marigold *T. patula*

Small bushy plants with flowers approximately 2" across in a wide range of colors including yellows, oranges, rich reds, mahogany and bicolors. Bloom styles, depending on the cultivar, can be single, crested, semi-double or fully double. Outstanding edging plants bloom early summer till frost and stand well in all weather.

5222BM Bambino This darling's variegated petals of dark and light orange swirl around a center button, giving the effect of a tiny circus tent. Plentiful 2 1/2" single-petaled flowers set early on semi-mounded 8" bush. Blooms strong until frost, championing orange in the garden till the pumpkins take over. ⓐ

A=0.5g, \$1.50 B=2.5g, \$4.00 C=15g, \$8.00

5224BR Brocade Mix Abundant color on neat, compact 10" plants. Ruffled double flowers in rust, yellow, orange, red and bicolors. ⓐ

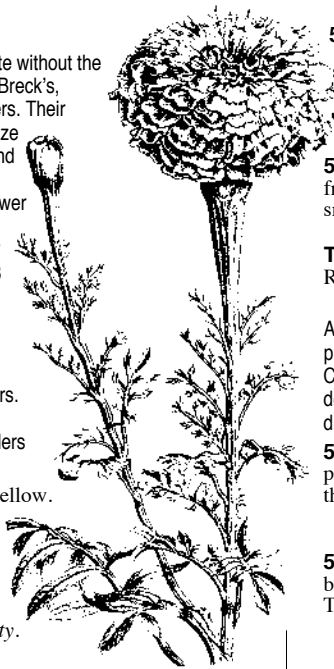
A=0.5g, \$1.20 B=7g, \$3.00 C=28g, \$5.50

5226CJ Court Jester (100 days) It's worth juggling garden space to make room for this jester, whose bright stripes of burgundy and yellow will keep you entertained into the fall. Many small single striped flowers dance atop a 20" tall plant and make alluring additions to bouquets as well. Don't be fooled by look-alikes—this was the winner in the court of opinion. ~360 seeds/g. ⓐ **NEW!**

A=1g, \$1.50 B=3g, \$3.60 C=9g, \$6.00

5229LD Lemondrop A beautiful true yellow extra-dwarf crested variety. Blooms early, through summer into fall. 6–8". ~640 seeds/g. ⓐ

A=1g, \$1.20 B=7g, \$3.50 C=28g, \$11.00



5255MN Mignonette *Reseda odorata* Annual.

"Mignonette should not be forgotten, on account of its delicious odor."—Breck's, 1885. Once fashionable on the balconies of Paris, popular enough to command 7 listings in Burpee's 1935 catalog. A revived interest in scent may help it regain its lost cachet. Among the most fragrant, its insignificant yellow-green blossoms send the enticing scent of raspberries wafting through the air. Less than a foot high, it can be grown in pots and moved for best effect; however, its scent will fade if it is removed from full-day sun. Direct seed; do not cover. Make succession plantings for continuous blooms.

Prefers fertile well-drained soil and cool weather. Burpee claimed a light sandy soil brings out its most pronounced perfume. ~750 seeds/g. ⓐ

A=1g, \$1.20 B=4g, \$3.00
C=16g, \$6.50 D=64g, \$13.00



5231QS Queen Sophia (60 days) Award-winning anemone-flowered dwarf. Each plant produces many bicolor double blooms. Flowers are deep rusty orange and, as they mature, petals are edged with gold. Named for Queen Sofia of Spain. 1979 AAS, later voted second most-popular AAS flower. 10–12". ⓐ

A=0.7g, \$1.60 B=3.5g, \$5.50 C=14g, \$12.00

5235SP Sparky Mix Combines yellow, gold, orange and red blooms on free-flowering compact 10–12" plants. Double flowers are 2–2 1/2" wide with smoother petals than Brocade. Darold Decker intro from the late '50s. ⓐ

A=1g, \$1.20 B=7g, \$3.00 C=28g, \$5.00

Tashkent (100 days) We have dropped this variety. *No longer available.* Replaced by **5226** Court Jester.

Signet Marigold *T. tenuifolia*

Also known as Gems, once known as Mexican marigolds, date back to 1798. Bloom prolifically with edible 3/4" single flowers with yellow centers and a lemony fragrance. Compact mounded plants have finely cut ferny foliage. They don't need deadheading, but benefit from a light shearing in hot weather and from watering in dry spells. ~1000 seeds/g.

5243LG Lemon Gem (68 days) Compact 10–12" plant bears tiny bright lemon-yellow flowers early, through summer, into fall. ⓐ

A=0.5g, \$1.60 B=1.5g, \$3.80
C=6g, \$7.00 D=24g, \$19.00

5246TG Tangerine Gem (68 days) As above, but the tiny fragrant flowers are deep orange. They make colorful tasty additions to salads. ⓐ

A=0.5g, \$1.60 B=1.5g, \$3.80
C=6g, \$8.50 D=24g, \$19.00

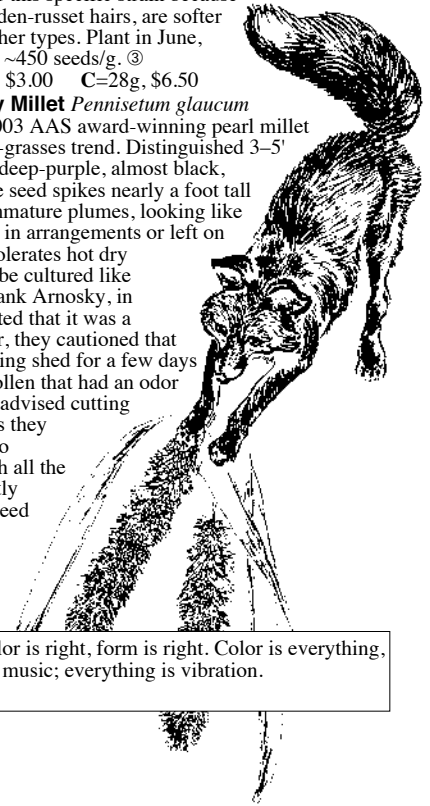
5257FX Foxtail Millet *Setaria macrocheata* Annual. Its graceful 3–6" golden seed heads bobbing on an August breeze attract attention even before harvest. After harvest, Foxtail Millet makes a striking counterpoint in floral displays. Customers ask for this specific strain because its heads, covered with golden-russet hairs, are softer and look less seedy than other types. Plant in June, harvest mid to late August. ~450 seeds/g. ⓐ

A=1g, \$1.20 B=4g, \$3.00 C=28g, \$6.50

5259PM Purple Majesty Millet *Pennisetum glaucum*

(120 days) Annual. This 2003 AAS award-winning pearl millet accelerated the ornamental-grasses trend. Distinguished 3–5' tall background plant with deep-purple, almost black, corn-like foliage has purple seed spikes nearly a foot tall and an inch around. The immature plumes, looking like purple cattails, can be used in arrangements or left on the plant to attract birds. Tolerates hot dry weather, likes sun and can be cultured like sunflowers. Pamela and Frank Armosky, in *Growing for Market*, reported that it was a sensational seller. However, they cautioned that some cuts left in their packing shed for a few days turned solid yellow with pollen that had an odor like burnt antifreeze. They advised cutting the spikes immature, just as they emerge from the last leaf, to circumvent the pollen. With all the hype, the seed is exorbitantly expensive, so we pack by seed count. ~116 seeds/g. ⓐ

A=6 seeds, \$2.30
B=24 seeds, \$7.20
C=72 seeds, \$19.00



Color is all. When color is right, form is right. Color is everything, color is vibration like music; everything is vibration.
—Marc Chagall

Supplier Codes Know where your seed comes from! See page 4 for details.
ⓐ Small seed farmers including Fedco staff.
ⓑ Family-owned companies or cooperatives, domestic and foreign.
ⓒ Domestic and foreign corporations not part of a larger conglomerate.
ⓓ Multinationals not to our knowledge engaged in genetic engineering.
ⓔ Multinationals who are engaged in genetic engineering.
ⓕ Manufacturers of neonicotinoids: Bayer and Syngenta.

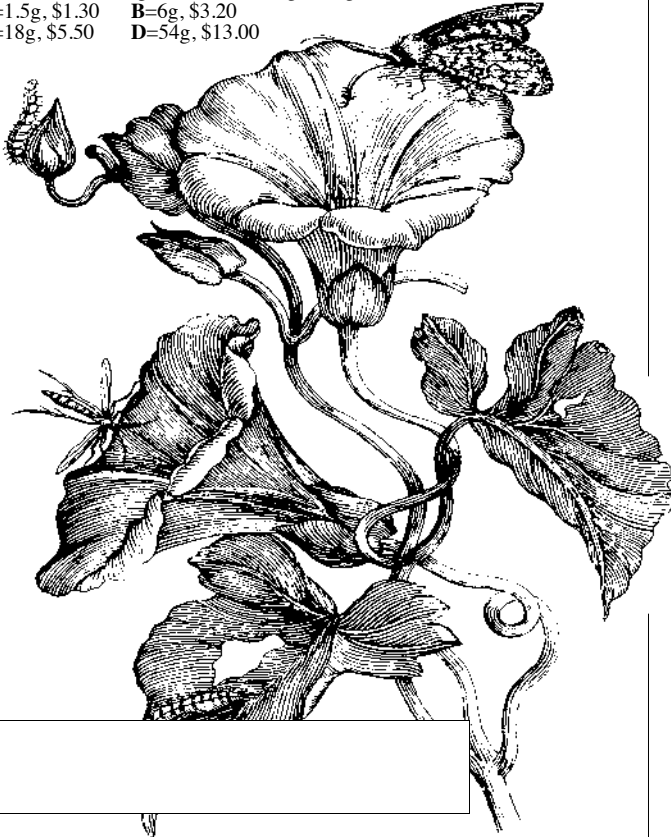
MORNING GLORY *Ipomoea* spp.

Annual. Easily grown climber with trumpet-shaped flowers provides color and shade, decorates fence or post.

Culture: Plant with eastern exposure for best results. Nick the seeds with a file and soak overnight to speed germination. Germinates in 2 weeks at 75–80°. Sow outdoors after danger of frost or indoors in peat pots as they resent transplanting. Overly rich soil will yield excess foliage and sparse blooms. ~25 seeds/g.

5271FS Flying Saucers *I. nil* Seedsman Darold Decker created these gaudy 4" open trumpets just three years after the Russians sent Sputnik into orbit. Bicolor features clear white cups streaked with sky blue. The swirly blue patterns create the ethereal saucer effect that inspired its name. Can be brought inside in the bud stage for a week-long show as the amazing blossoms unfurl their patterns. Climbing vine grows 8–10'. ③

A=1.5g, \$1.30 B=6g, \$3.20
C=18g, \$5.50 D=54g, \$13.00



5273SH Scarlett O'Hara *I. n.* Very large wine-red flowers on 10' vines. Won 1939 AAS shortly after the publication of *Gone with the Wind*. ③

A=3.5g, \$1.20 B=14g, \$3.20 C=56g, \$10.00

5274SS Sunrise Serenade *I. n.* A recently rediscovered heirloom double morning glory. I first caught a glimpse of an unstaked plant snaking along in the undergrowth of a friend's garden and was arrested by the large 1–3" ruby-red blooms with white throats. As I bent closer, I was amazed by the frilly slightly wavy extra petals. A vigorous 12–15' plant, it needs to be tied up in order to climb. When thus displayed, the flowers contrast nicely with the heart-shaped green leaves. Often the first morning glory to bloom, also stays open longer than the singles. Packet has ~11–14 seeds. ⑥

A=0.3g, \$1.70 B=1.2g, \$5.80 C=6g, \$14.00 D=24g, \$50.00

5276CM Carnevale de Venezia Striped Mix *I. purpurea* Vigorous 6' climbers quite striking with their masses of white flowers, some with blue stripes, some with pink, some with both in a wide array of diverse patterns. The effect is more cheery and naive than the full range of exotic masks and costumes displayed in the annual Carnival of Venice. More like a carnival pinwheel handpainted in the '60s. Plant them where they'll brighten up your morning. ③

A=1g, \$1.40 B=3g, \$3.50 C=15g, \$10.00 D=90g, \$35.00

5277KO Kniola's Purple OG *I. p.* (50 days) Beautiful glowing rich deep purple flowers vibrate against lush green foliage. Unlike most other morning glories, Kniola's starts blooming while it is only 2' tall and still vining. As the vines climb on to 8–9', the blooms continue, lasting the entire season. The deep flowers have a magenta star that radiates out from their pale pink-white throats. An heirloom discovered by Mr. Kniola at an abandoned farm in Indiana. Nicholas Lindholm acquired seed from J.L. Hudson in 1993, thence passed it on to Roberta Bailey who has been maintaining it and culling out the magenta off-types. Sold by seed count. MOFGA-certified. ①

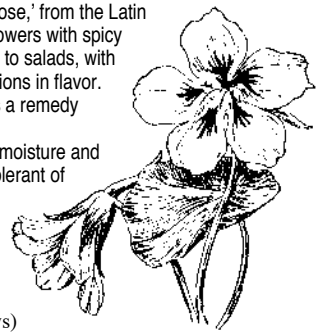
A=10 seeds, \$2.80 B=40 seeds, \$9.00

5279HB Clarke's Heavenly Blue *I. tricolor* (115 days) Classic morning glory. Intense azure blooms lighten toward center; a sun-loving vine. 12'. ③

A=3.5g, \$1.20 B=14g, \$3.00 C=56g, \$7.00 D=1lb, \$29.00

NASTURTIUM *Tropaeolum* spp.

Annual. The name literally means 'twisted nose,' from the Latin *nasus* for nose and *tortus* for twist. Edible flowers with spicy sweet fragrance lend a peppery-sweet taste to salads, with each color adding contrast and subtle variations in flavor. Round leaves also edible. Formerly used as a remedy against scurvy.



Culture: Blooms keep coming if cut, needs moisture and cool temperatures for optimal blooming. Intolerant of frost. Germinates 7–10 days at 65°. Cover the seed. Avoid excess nitrogen, but don't relegate nasties to the worst soil. Likes full sun. Start indoors or direct seed after last frost. ~6 seeds/g.

5280AL Alaska Mix *T. majus* (60 days)

Striking variegated green and white foliage will make a formidable bush if you feed it heavily. But go easy on the nitrogen if you want to eat lots of its tangy yellow and orange blossoms. A great plant for hanging baskets. 16". ②

A=2g, \$1.20 B=8g, \$3.00 C=24g, \$4.60 D=1lb, \$35.00

5282EI Empress of India *T. majus* (60 days) Hailed as a "great novelty" when introduced in 1884, and still popular today. Dark purplish-green leaves and stems make a perfect background for the spicy-hot brilliant crimson-scarlet flowers that stand out in bold relief. A good contrast with other nasturtium varieties. Do not feed heavily. 16" plants. ②

A=3g, \$1.20 B=9g, \$3.20 C=27g, \$5.00 D=1lb, \$42.00

Jewel Mix *T. majus* (42 days) Bushy variety holds its blooms above the foliage. Early free-flowering blend of orange, yellow, red and gold. Long our best-selling flower variety. 16".

5288JM Jewel Mix ②

A=4g, \$1.20 B=16g, \$3.20 C=64g, \$8.00 D=1lb, \$32.00

5289JO Jewel Mix OG This is the last year organic seed will be available. CCOF-certified. ③

A=4g, \$1.80 B=16g, \$5.60 C=64g, \$18.00 D=1lb, \$90.00

5291TC Tall Climbing Mix *T. majus* (65 days) Tall trailing mix to 4–6' in red, orange, gold and exquisite bicolor shades. The red blossoms have a spicier taste than those of lighter colors. Plants will spread and fill in a huge space but having no tendrils cannot, strictly speaking, climb. The most prolific blossom set of any of the nasturtiums we have tried. ②

A=4g, \$1.20 B=28g, \$3.50 C=84g, \$7.20 D=1lb, \$28.00

5293PM Peach Melba *T. minus* (60 days) Named for the dessert—peaches with raspberry sauce—that Escoffier created to honor 19th-century operatic soprano Nellie Melba. Recommended by Eva Sommaripa and other growers who treasure its unique delicacy. Primrose-cream blossoms with pearly red centers look like miniature cut peaches with dollops of sauce. Sets its abundant blooms above the compact lily-pad foliage. Seed is expensive but worth it. A- and B-size packets are packed by count. ②

A=10 seeds, \$1.60 B=40 seeds, \$4.40 C=16g, \$12.00 D=64g, \$30.00

5295WB Whirlybird 7-Color Blend *T. minus* (60 days) Has large spurless upward-facing flowers borne above the foliage. Compact non-trailing plant habit. Recommended for commercial growers. 12" plants. ③

A=2g, \$1.30 B=6g, \$3.20 C=24g, \$7.20 D=1lb, \$50.00

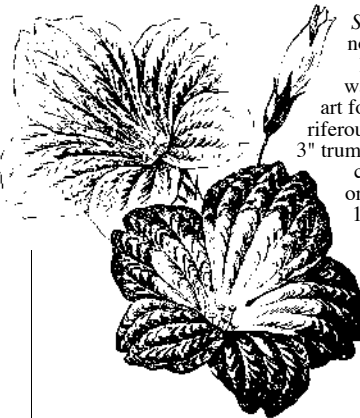
5300LN Only the Lonely Nicotiana *N. sylvestris* Annual. Arrived in cultivation from Argentina in 1899 and offered by Geo. B. Haskell Co. of Lewiston, ME, for a nickel per packet in 1904. Also known as Woodland Tobacco, featuring clusters of drooping tubular white blossoms that perfume the garden day and night. In dwarfing nicotiana, breeders took away its fabulous fragrance. Lonely, a stately 5', delivers the full powerful scent its more compact cousins lack. Plant it near a door or under your bedroom window where you can enjoy the aroma during the night. Germination is 10–12 days at 65–70°. Light enhances germination. Grow on at 50–55°. ~29,000 seeds/g. ③

A=1g, \$1.50 B=4g, \$4.50 C=16g, \$16.00

5303RM Royale Mix Painted Tongue

Salpiglossis sinuata Annual from the Andes noted for its exquisite velvety texture. Popular as a cutting flower in Victorian times, it was often planted in geometric patterns in an art form known as mosaiculture. Extremely floriferous 15–20" plants produce masses of elegant 3" trumpet flowers in a broad range of colors from chocolate, red, purple and yellow to purple-orange and pale blue bicolors. Germinates in 15 days at 70°. Likes long days, lots of light and cool nighttime temperatures (50°) to grow on. Set out in a location with partial shade, good drainage and protection from the wind. Deadheading prolongs blooms. ~4,500 seeds/g. ④

A=0.01g, \$2.40 B=0.05g, \$7.00



PANSY *Viola* spp.

Annual or short-lived perennial. Burpee's in 1888 called the pansy "the most popular of all flowers grown from seed," and sold more than 100,000 packets per year. James Vick's Sons sold 27 different kinds and mixtures in 1895. For thoughts, remembrance, from the French *pensée*.

Culture: Old-fashioned bedding plant thrives in cool moist conditions. Start in a cool (60–65°) place 2 months prior to planting. Cover seed to germinate. Takes about 12 days. Grow on in very cool temperatures—preferably below 50°. Likes partial sun. ~700 seeds/g except where noted.

See 5152 for Johnny-Jump-Up.

Blueberry Glow *V. cornuta* Supplier has discontinued this variety. *No longer available.*

5305BS Brush Strokes *V. c.* As if an artist had taken a fine brush to lay delicate bright stripes on its palette of solid colors. Purple, pink, yellow and light blue striped with white and yellow strokes.

Donna Dyrek's blossomed the first of July from an April 8 start and are among the first to revive in the spring. Dwarf 6" plants with large fragrant faces. ~1,100 seeds/g. ⑤

A=0.02g, \$2.20 B=0.1g, \$5.50
C=0.4g, \$13.00

5307JJ Jolly Joker *V. x witrockiana* 1990 All-America winner. Does not display the familiar flat "face" we've come to expect on our pansies. Instead its vibrant color combination of orange and purple will make you take notice. One of the hardiest pansies, and one of the slowest to "stretch." 8". ②

A=0.1g, \$2.20 B=0.5g, \$6.50

5314PE Pearly Everlasting *Anaphalis margaritacea* Perennial, Zones 3-8. You may have seen these blooming from midsummer to fall in the full sun or partial shade along the edge of a field. Big clusters of 1/2" white papery flowers on 18–24" plants live up to their name and hold their pure white color without turning brown when dried. Best picked for drying before the yellow centers are visible in order to prevent an unattractive exploded look. Also use fresh in bouquets or leave outdoors to attract pollinators. Good for naturalizing in evenly moist soil but will tolerate drought. Known by the Passamaquoddy as "women's tobacco" because it is milder than Red Willow, and used for calming the mind, for headache and insomnia, and as a smudge or offering. Direct sow after last frost so that plants are 18–24" apart. ~8,000 seeds/g. ⑤ ③

A=0.1g, \$1.60 B=0.3g, \$3.80 C=1.2g, \$12.00

PETUNIA *P. x hybrida*

Annual. "If I were limited to one flower with which to decorate my home I would choose Petunias." —Park's Flower Book, 1934.

Culture: Start indoors at 70–75° and grow on at same temperature for 8 weeks before setting out after danger of frost. Do not cover seeds; light aids germination. Use loose medium and avoid overwatering. Drought-tolerant sun lovers. All F-1 hybrids. ~10,000 seeds/g.

5321DD Daddy Mix F-1 hybrid. Very showy grandiflora has big 4" ruffled blooms in shades of light blue, orchid, peppermint, pink, plum and strawberry with darker veins. Stunning in baskets, these uniform plants also exhibit good weather-tolerance when planted in full sun. 12–15". ⑤

A=0.03g, \$3.30 B=0.12g, \$12.50

Wave Series Petunia

Our customers have caught The Wave. Each plant carpets the ground with a 4x4' spread of vivid color. This versatile landscaping tool can be used as a low hedge, as a ground cover, or trailing from pots. Wave showed extreme drought tolerance in our trial, sailed through light frost, and bounced back after torrential rain. Although never dead-headed or cut back, the 3" flowers just kept coming and coming.

Culture: Plant in full sun where its robust performance and light fragrance can sweep you away. All varieties pelleted seed, packed by count and shipped in protective vials so none get crushed.

5323BW Blue Wave Suggested by Nan King of Walpole, NH. She prefers Blue Wave's plant habit to that of Purple, finding it less rangy, more floriferous, and the foliage better at covering the underpinnings. Has bluish-purple flowers and mounding appearance that spreads large. 2003 AAS. ⑤

A=10 seeds, \$2.60 B=40 seeds, \$9.60

5325PW Pink Wave Pink, with white throats. ⑤

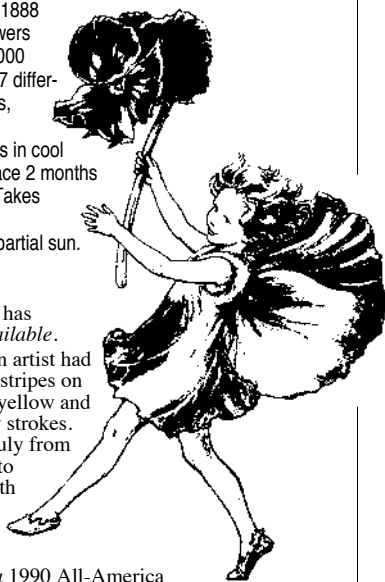
A=10 seeds, \$2.60 B=40 seeds, \$9.60

5326PU Purple Wave Vivid fuchsia. 1995 AAS. ⑤

A=10 seeds, \$2.60 B=40 seeds, \$9.60

5328TW Tidal Wave Silver Despite its name, more a very pale purple than silver, with darker purple veining. 2002 AAS. ⑤

A=10 seeds, \$2.60 B=40 seeds, \$9.60



5331PO Phacelia OG *P. tanacetifolia* Also called Fiddleneck. The small frizzy curling lavender-blue sprays of this bushy 18–30" annual bloom for two months and provide high-quality pollen and nectar, making it one of the most popular insectary plants for honeybees, bumblebees and syrphid flies. Phacelia honey is clear and delicate. Flowering begins 6–8 weeks after germination, though the plant needs 13 hours of daylight to bloom. Used as a cover crop or intercropped in row plantings, it can increase beneficial insect diversity and populations in gardens, fields, orchards and vineyards while suppressing weeds. It winter kills at 18° and can be turned under. Feathery leaves look similar to Sweet Cicely. Seed will germinate in cold soils. Thrives in dry to moist soils. ~280 seeds/g. ②

A=1g, \$1.30 B=4g, \$3.60 C=20g, \$7.20

PHLOX *P.* spp.

Breck's sold 15 different kinds in 1885. The word phlox signifies 'a flame.' Phlox is among the most colorful annuals for summer and fall beds, borders or pots.

Culture: Start early indoors or direct sow in spring. Likes moist well-drained soil in full sun. One of the longest lasting in the vase. About the last to succumb to frost.

5335PL Drummondii Mix *P. drummondii* Annual. Enchanting fragrance from this 24" sprawling phlox with large umbel blooms in crimson, scarlet, pink, white, lavender, and bicolor combinations with dark and white eyes. ~500 seeds/g. ③

A=0.4g, \$1.20 B=2g, \$3.00 C=8g, \$6.00

5339PH New Hybrids Mix *P. paniculata* F-1 hybrid. Perennial, Zones 3-9. Blooms from June till frost. Excellent for borders and cutflowers. Mix of white, pinks, reds and lilacs. Freeze seeds 10 days before sowing indoors, or direct seed in cold soil. Slow germinator, takes 3–4 weeks. Likes full sun. 3'. ~111 seeds/g. ③

A=0.1g, \$1.50 B=0.3g, \$3.30 C=0.9g, \$6.60

5341PF QIS Formula Mix Pincushion Flower

Scabiosa atropurpurea Annual. High-quality mix has brought us moderate success in restoring interest to the old-fashioned but underrated Pincushion Flower. These quilly beauties are perfect for cuts, each 2" bloom is a rounded mass of tiny florets on a long wiry stem. Harvest when blossoms are almost fully open. Also excellent for drying. Formula mix is nicely balanced, featuring purple, lavender, red, pink, white and almost-maroon. ~150 seeds/g. ③

A=0.2g, \$1.50 B=1g, \$3.20 C=4g, \$6.60

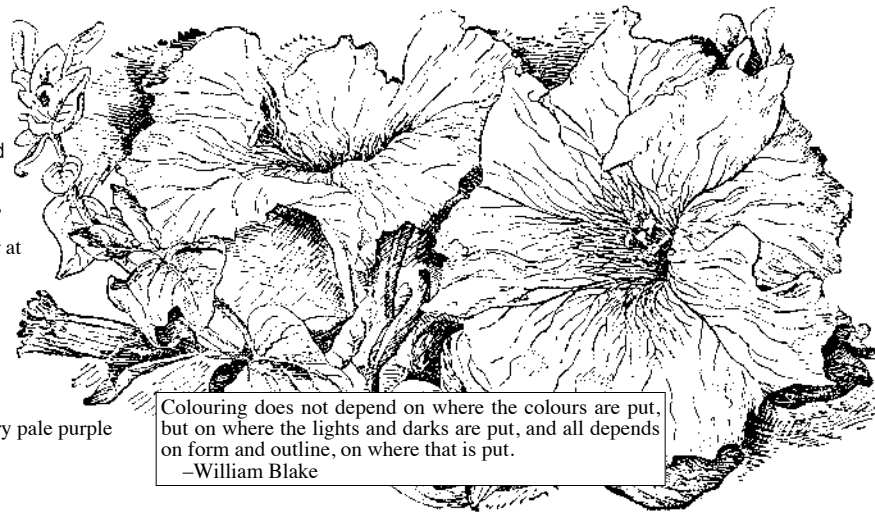
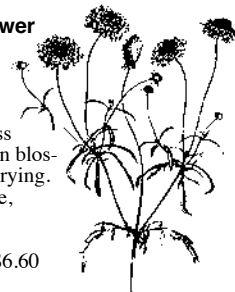
Pinks See Dianthus, 5061-5066.

5343RP Flamenco Red Hot Poker *Kniphofia uvaria* Perennial, Zones 5-9. You won't need to build a casino to get into this game of poker. If you get your thrills from hot colors rather than hot hands, this Red Hot Poker is no gamble at all. Our ante is only \$1.60 and there will be many winners. It will flower the first year up to four weeks earlier than other standard varieties, setting spectacular 8" spikes atop sturdy 32" stems, in a riot of yellow, orange and fiery red tubular flowers. A field of these along the road can take your breath away. Blooms July-September and makes an unusual accent in cutflower arrangements. Likes well-drained sunny locations. Space at 18–24". For overwintering, mulch to protect the crowns from moisture and heaving. AAS. ~450 seeds/g. ②

A=0.04g, \$1.60 B=0.12g, \$3.20 C=0.36g, \$6.00

5345AP Dwarf Allegro Oriental Poppy *Papaver orientale* Long-lived perennial, Zones 2-8, grows 16". Fuzzy fern-like leaves, showy buds open to dazzling scarlet blooms with contrasting black eyes. Sow in June, transplant in October for flowers the following late spring. Fits well with border perennials and ornamental grasses because plants go dormant after spring flowering. ~5,000 seeds/g. ③

A=0.05g, \$1.50 B=0.2g, \$3.00 C=0.6g, \$7.50



Colouring does not depend on where the colours are put, but on where the lights and darks are put, and all depends on form and outline, on where that is put.
—William Blake

POPPY *Papaver* spp.

Annual. Sensuous luxurious flowers, about 2½–3' tall. We offer two heirloom breadseed varieties especially suitable for baking. Poppies make wondrous cutflowers: choose buds that have straightened up but not quite opened. Immediately sear the cut stem with a lighter and put in water. Poppies open after several hours—an austere bouquet in the evening can become a riot of colors by the next morning.

Culture: Need light to germinate. Sow outside in spring after frost or sow in fall for early blooms the following summer. Thin to 9–12". Like full sun. Will self sow. ~2,000 to 7,000 seeds/g.

5350EO Elka OG An unusual double-purpose poppy sporting enormous seed heads up to 1½" wide and 2" high in good years, somewhat smaller in drought. All the heads are now unvented so that the seed is not broadcast. From Chrenovec in central Slovakia, where families used to grow both the black Breadseed poppy and white-seeded Elka, and collect 50 kilograms of each for a year's cooking. When walnuts became widely available in stores, Elka almost completely disappeared. Lacks the distinctive flavor of the Breadseed variety but sweeter, with a more nutlike taste, none of the bitterness, and over 50% more oil content, making perhaps the best edible oil in central Europe. Plants grow 4' with white-lavender single blossoms, like calcium-rich soil, don't transplant well. For best results thin to at least 5–6" apart. Some folks tie a group of plants together for support against wind breakage. Isolate from other poppies by at least 250' if you wish to save seed. ©1995. MOFGA-certified. ①

A=0.1g, \$1.30 B=0.3g, \$3.20 C=1.2g, \$6.00
D=6g, \$12.00

5351ZO Ziar Breadseed OG Twin to 5350 Elka bred to eliminate the vents in its large seed head so the blue seeds stay in the heads to be collected. Ornamental single pink to red petals with centers ranging from pale red through dark colors. Although the first batch of seeds had some difficulty adapting to the cold climates of Canada and Maine, Ziar has been selected over the past 20 years for better cold survival. Slovakian variety once a mainstay of the local cuisine. ©1996. MOFGA-certified. ☆ ①

A=0.1g, \$1.30 B=0.3g, \$3.20 C=1.2g, \$6.00 D=6g, \$12.00

5353BP Black Peony We'd seen poppies in a lot of different colors, but never one like this fully double ruffled flower of the deepest purple, almost black. Strong tall stems. 2'. ⑤

A=0.2g, \$1.50 B=1g, \$3.60 C=5g, \$6.30

5359DF Danish Flag According to legend, Denmark's flag came from the sky to King Valdemar II in 1219. The origins of the *Danebrog* or Danish Flag poppy, are more obscure but predate 1888. Flag is named for the white spots at the base of the petals that form a cross in the center of the brilliant scarlet flowers somewhat mimicking the Danish flag. The lush single blooms, more than 4" across with fringed petals, sit atop 27" stems with blue-green foliage. The attractive large seedheads that follow the showy blooms are ideal for drying. ③

A=0.2g, \$1.30 B=1g, \$3.00 C=7g, \$5.50

Drama Queen Enough drama this year with the political campaign. None extra for a crop of this poppy. *Not available this year.*

5368FO Flemish Antique OG This old-fashioned cottage garden charmer adds a touch of Victorian elegance. Whorled petals of creamy ivory brushed with touches of salmon-red in singles, semi-doubles and doubles now true to the original strain. Blue-green foliage makes an intense backdrop for these 4" peony blooms. 3' plants stood the rains with aplomb and were still blossoming in October. Very showy in indoor arrangements. After the blooms are done, the large blue-green oblong seedpods are highly prized as everlasting. WA-certified. ①

A=0.2g, \$1.40 B=1g, \$3.50 C=5g, \$6.00

Fluffy Ruffles *Not available this year; no crop.* Don't be ruffled; these will return in future years.

5374LB Ladybird Not a reference to Lady Bird Johnson, Ladybird is instead British for ladybug, as the four black dots in the center of these fire engine-red blooms make a fanciful resemblance to the beloved beetle. Compact 1½" delicate single blooms atop wiry 15" stems. This cottage variety, great for edging the flower garden, dates back to 1876. Bloomed June 30 from a May 2 planting. ③

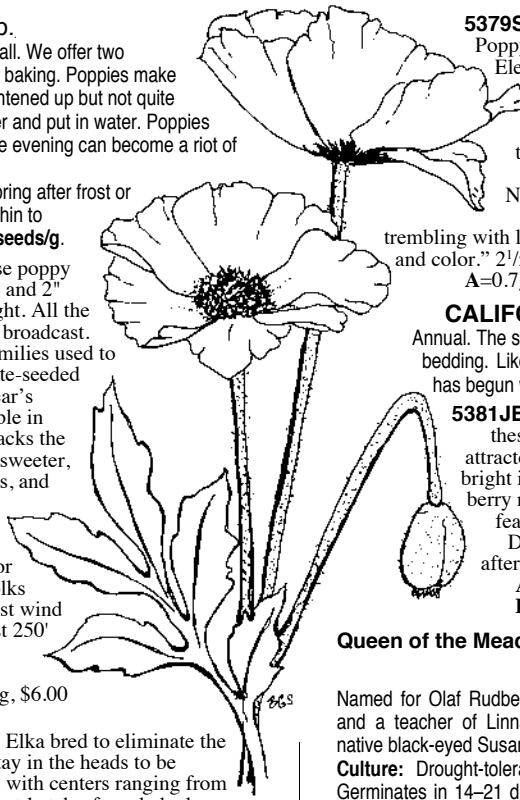
A=0.2g, \$1.50 B=1g, \$3.60 C=4g, \$6.60

5377LO Large Lavender OG Passed along to Jeanne Griffin by a German friend, these tall poppies bloom in July with 2½–3" single flowers that have exquisitely shaded and fringed petals. Long blooming period. Large 1" seed pods can be used in dried arrangements. MOFGA-certified. ①

A=0.2g, \$1.40 B=1g, \$3.50 C=4g, \$6.00

5378SO Scarlet Peony OG Large 5" bright scarlet blooms make a stunning show in the garden, especially *en masse*. Fully double blossoms tightly packed with silky deeply fringed petals draw attention in much the way a cheerleader's pompons do. Very floriferous from mid-August on. 2–3' tall. MOFGA-certified. ①

A=0.2g, \$1.40 B=1g, \$3.50 C=4g, \$6.00



5379SH Shirley Double Choice Mix Also known as Corn Poppy, was called Ghost or Fairy Poppy early in the century. Elegant semi-double blooms all summer in shades of pink, rose, salmon, scarlet and white. The name Shirley refers to the town in Surry, England, where the Rev. Henry Wilkes originally raised the variety. It was relatively new in 1890 when Hallock's Famous Long Island Seeds said it was "conceded by all to be still the finest Novelty that we can give you this spring. The flowers are like fairy work...so silky and tissue-like...Bending and trembling with life-like beauty, the surface is a perfect shimmer of light and color." 2½' tall. ②

A=0.7g, \$1.20 B=7g, \$2.80 C=28g, \$5.50

CALIFORNIA POPPY *Eschscholzia californica*

Annual. The state flower of California is excellent for borders, rock gardens, bedding. Likes full sun. Do not transplant. Direct seed in May after soil has begun warming. Make succession plantings for blooms all summer.

5381JB Jelly Beans Unlike the jelly beans of our childhood, these are eye candy only, except to the bees and hover flies attracted by their nectar. These Jelly Beans are vibrant in their bright irresistible colors: bubblegum pink, white, orange, raspberry red, pale orange—some striped, some doubled—against feathery silver-blue foliage. From an April 11 start, Donna Dyrek's first blooms were on Bastille Day. Still bloomed after a 27° mid-October frost. 8–12" tall. ~700 seeds/g. ☆ ⑤

A=0.1g, \$1.70 B=0.4g, \$4.20 C=2g, \$12.00
D=8g, \$30.00

Queen of the Meadow See 5150 Joe Pye Weed.

RUDBECKIA *R.* spp.

Named for Olaf Rudbeck (1660-1740), professor of botany at Uppsala in Sweden and a teacher of Linnaeus. Improved versions of these rugged North American native black-eyed Susans outstrip their wild counterparts in size and color.

Culture: Drought-tolerant. Start indoors at 70° and do not cover the seed. Germinates in 14–21 days at 70°. Transplant after danger of frost at 15–18" apart. Likes full sun, good drainage.

5393GS Goldsturm *R. fulgida* Perennial, Zones 3-10. Domesticated cousin of the beloved black-eyed Susan, Goldsturm offers a profusion of shining golden-yellow flowers with dark central cones in August and September. Transplants well and has much larger flowers—up to 5" across—than the common wildflower. The 2' plants have long strong stems ideal for cutting and flowers last long in the vase. Start indoors 8–10 weeks before last frost. ~1,105 seeds/g. ☆ ⑥

A=0.1g, \$1.80 B=0.4g, \$3.80 C=1.2g, \$7.00

5395GD Gloriosa Daisy *R. hirta* Annual. Impervious to the hottest sun and the poorest soils, these workhorses reward even the novice with nonstop flowers from late July until fall frosts. Flowers up to 6" on 2–3' stems have the hues of mixed sunflowers: yellow, gold, orange and reddish brown, surrounding chocolate-brown centers. They enhance the border and can be brought inside as cuts. Transplant or start seeds directly outdoors as soon as the ground can be worked. Space about 1' apart. ~1,800 seeds/g. ☆ ③

A=2g, \$1.30 B=6g, \$3.30 C=24g, \$7.00 D=72g, \$19.00

5397GL Goldilocks *R. h.* (86 days) Annual.

Brighten bouquets and beds with these 4" golden-orange blooms with deep-set brown eyes.

Long strong stems set on 24–30" plants

make this an outstanding cutflower.

Enough are fully double to give the

effect of a patch of chrysanthemums.

~1,800 seeds/g. ☆ ③

A=0.1g, \$1.60 B=0.3g, \$3.80

C=1.2g, \$8.50

5399PS Prairie Sun *R. h.*

(88 days) Annual. Sixteen pointy

golden petals with light yellow tips

encircle a subtle green center. Flowers are

very large and distinctive. Branching 24–30"

plants have long stems, ideal for cutflowers.

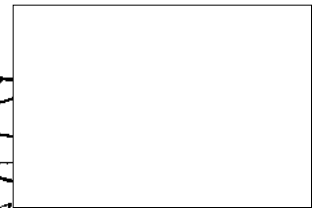
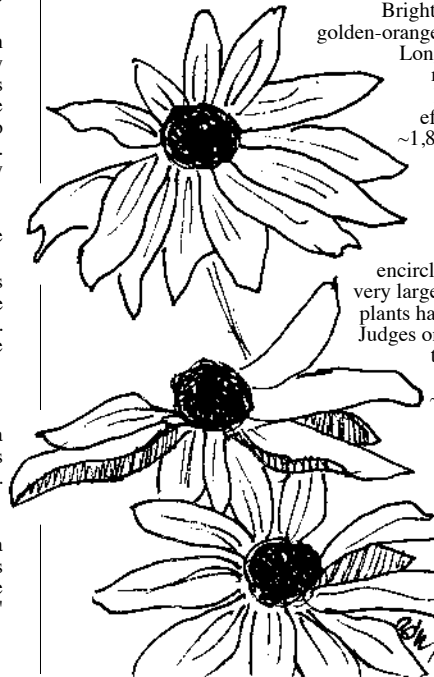
Judges on two continents were so impressed

they made Prairie Sun both an AAS

and a Fleuroselect winner in 2004.

~1,500 seeds/g. ☆ ②

A=0.02g, \$2.60 B=0.1g, \$7.00



SALVIA spp.

From the Latin *salvere*, 'to heal.' Wide-ranging genus with more than 900 species throughout the world. In the Northeast they range from tiny lawn weeds to showy ornamentals to culinary sage. Members of the mint family, most have square stems and blue or lavender flowers with prominent lips.

Culture: Like full sun and dry conditions, require good drainage. In our climate, all should be started indoors.

See also sages 4664-4666.

5406BB Blue Bedder *S. farinacea* Perennial, Zones 8-10, grown as an annual. True blue flower spikes are abundant for weeks on bushy 3' plants. Grey-green foliage. Light aids germination. Start indoors in warm location (do not cover seed) 4-6 weeks before last frost, keep fairly dry for best foliage color, and transplant outdoors after danger of frost.

~900 seeds/g. ♀ ③

A=0.2g, \$1.40 B=1g, \$3.50 C=4g, \$7.50

5411GS Gentian Sage *S. patens* Perennial in Zone 8-10, grown as an annual. Magnificent blossoms clear and bright, one shade lighter than cobalt blue. Each flower on the monkshood-like spike has a top petal "hood" that lunges across the pendant lower petals. Flower spikes 12-15" long, good for cutting. Start indoors 12-14 weeks before setting out. 2 1/2' plants.

This is the last year we will offer; sales are slow. ~130 seeds/g. ♀ ③

A=0.1g, \$1.50 B=0.3g, \$3.30 C=1.2g, \$6.00

5417SS Seascape *S. f.* F-1 hybrid. Perennial, Zones 8-10, grown as annual. Even from way across the garden, this stunning mix of blues and silver grabs your attention, be the day foggy and overcast or bright and sunny, whether you are near the coast or not. Early flowering blossoms on compact branching 13" plants excel whether clumped by themselves or mixed with others. Best in full sun, tolerant of poor soil and some drought. Gazing at them in Donna's garden, well inland, I imagined I was sailing on Penobscot Bay admiring the alternating waves of color. Start seeds indoors 10-12 weeks before last frost for best bloom. ~1,050 seeds/g. ♀ ④

A=0.1g, \$1.70 B=0.3g, \$3.50 C=1.2g, \$8.50 D=6g, \$32.00

5419TS Tricolor Salvia *S. viridis* Annual. Also known as Painted Sage. This prolific little beauty is splendid as a dried flower or a filler in fresh arrangements. Although its leaves are entirely green, its name comes from its white and blue flowers set off by large pink-to-purple bracts. Easily air-dried, it will remain very colorful, flowering until frost if old blooms are removed. 18" stalks. Start indoors 4-6 weeks before last frost. Needs well-drained soil. ~350 seeds/g. ♀ ③

A=1g, \$1.40 B=4g, \$3.50 C=12g, \$6.60

5422SC Angel Wings Schizanthus *S. pinnatus* Annual. Also known as Butterfly Flower or Poor Man's Orchid. Bring a hint of the exotic to your garden by growing this colorful array of delicate orchid-like flowers with pansy faces. Softly complementary shades of pink, violet and rose with contrasting blotched and stippled throats create the effect of an 18" fern covered by rare little butterflies. Bring cut sprays of blooms indoors for a touch of charm. Do not cover the fine seed with soil, but do cover flats or pots with a sheet of black plastic because darkness aids germination. Takes 1-2 weeks to germinate. ~1,517 seeds/g. ③

A=0.2g, \$1.30 B=1g, \$3.00 C=5g, \$5.00

5423SO Northern Sea Oats OG *Chasmanthium latifolium* Perennial, Zones 4-10. We admire its 2' strong arching stems dancing with airy green flattened seedheads. Lovely in arrangements from June to September, after which its bamboo-like foliage changes from green to a rich brown, providing winter contrast. The dried seedheads make interesting accents in handmade paper. Self-sows freely if not deadheaded. Likes moist conditions and is lighter green when grown in full sun. Bag tag limits seed to a one-time use. AGRIOR-certified. ~260s/g. ③

A=0.2g, \$1.40 B=1g, \$4.50 C=4g, \$14.00

5431RS Rocket Mix Snapdragon *Antirrhinum majus* (120 days) Perennial in Zone 7-10, grown as an annual, and occasionally overwinters even in central Maine. F-1 hybrid always very popular with commercial growers. Its long stems and vibrant colors: pink, red, yellow, orange, white and orchid on 2-3' plants make Rocket the standard snapdragon for cutting. For local production of cuts, harvest when more than half the flowers are open. Will last 5-8 days. Withstands light fall frosts. Sow indoors at 65-75°. Do not cover the seeds. Grow on at 60°; warmer temperatures cause leggy transplants. Set out after danger of frost, spacing at 9-12". ~5,000seeds/g. ⑤

A=0.025g, \$2.70 B=0.125g, \$6.40 C=0.5g, \$22.00

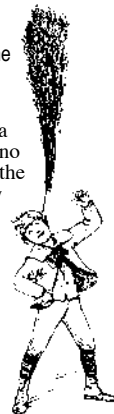
Sneezeweed see 5119, Helen's Flower.

SORGHUM *S. bicolor*

Annual. Originally from Africa, sorghum is cultured in the South for the sweet syrup of its stalks. In the floral trade it is used as a focal point for large arrangements.

5437BR Red Broom Corn (105 days) Not a true corn, but a sorghum, broom corn looks and grows like corn but develops no ears, instead producing a tall spray of seed heads at the top of the plant in lieu of a tassel. These 2-3' sprays are laden with shiny red 1/8" seeds that birds love. Incorporate seeds into edible bird-feeder wreaths or leave sprays intact to add variety to traditional fall decorations. To make natural straw brooms, comb seeds out of the dry stalks and tie the seedless heads together. Stalks, generally 7-9', will grow up to 10' in an optimal season. ~48 seeds/g. ①

A=4g, \$1.30 B=12g, \$3.00 C=36g, \$5.00
D=180g, \$16.00



STATICE *Limonium sinuatum*

Perennial in Zone 8-9, grown as an annual. Faithful standby in everlasting bouquets; also good in fresh arrangements. Reaches 2-2 1/2' on stiff winged bright green stems. Flowers may be gathered for drying many times throughout summer.

Culture: Seed is rubbed for easier germination, which takes 5-14 days at 70°. Some light should reach the seed. Vernalize seedlings at 50-55° until they reach the 5-leaf stage, then increase temperatures to 60-70°. Grow in full sun. Tolerant of dry conditions. ~300 seeds/g.

5444SB Pale Blue Seeker

Medium-blue flowers, the best blue in our trial. ③

A=0.2g, \$1.80
B=1g, \$5.20
C=4g, \$13.50

5449FP QIS Purple ⑤

A=0.2g, \$1.50 B=1g, \$4.40
C=4g, \$8.50

5453QW QIS White Like frilly tutus in the ballet, this double white statice dances circles around all the others—and we've looked at a lot of the others. 2 1/2' stems bear clear white full flowers with no yellowing or browning. A classic. ③⑤

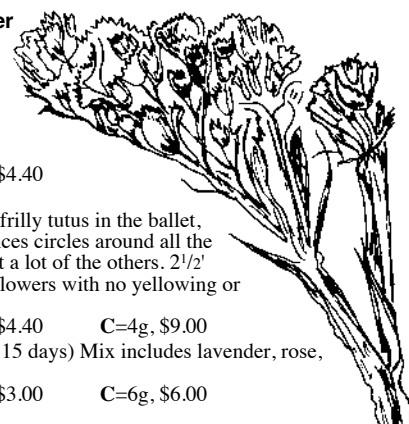
A=0.2g, \$1.50 B=1g, \$4.40 C=4g, \$9.00

5464MS Mixed Colors (115 days) Mix includes lavender, rose, purple, white. ②

A=0.4g, \$1.30 B=2g, \$3.00 C=6g, \$6.00
D=30g, \$18.00

5466SM Sunset Mix (~115 days) Warm shades of apricot, peach, rosy red, yellow and white; guaranteed to mix and match in arrangements, as filler, or in the garden. The different colors mature at slightly different times. 26" tall. ⑤

A=0.4g, \$1.80 B=2g, \$6.30 C=6g, \$14.00



STOCK *Matthiola incana*

Annual. Old-fashioned bedding plant formerly known as Gilliflower, with multiple spikes of usually double flower clusters. Genus is named for Pierandrea Mattioli, a 16th-century Italian botanist, while *incana* means 'hoary' or 'light grey,' referring to its soft grey leaves. Good in beds, borders and containers.

Culture: Tolerates frost to around 26°F. For earlier blooms, sow indoors at 60-65° 6 to 8 weeks before setting out after danger of frost. Likes moderately fertile moist well-drained soil, full sun. Stocks are in the Brassica family; for good rotation, don't plant them where you recently had brassicas or follow them with members of that family. ~600 seeds/g.

5475VM Vintage Mix We're bullish on this fragrant mix of pink, lavender, red, rose, peach, yellow, copper and white bred for larger flowers and early bloom. About half will have fully double blooms. Sturdy well-branched 15-20" plants. ⑤

A=0.1g, \$2.00 B=0.5g, \$6.30 C=2g, \$13.00

STRAWFLOWER

Helichrysum bracteatum

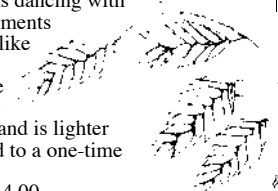
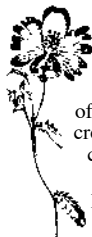
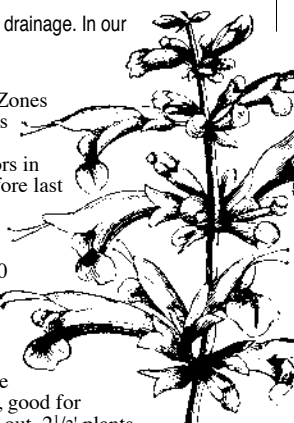
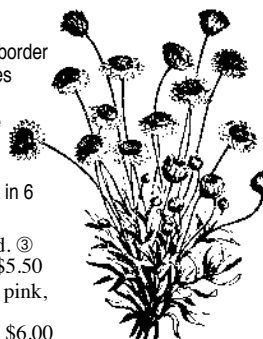
Annual. The freeblooming strawflower is good for border color and excellent for drying. Monstrosum varieties grow 30-40" tall, have 2-2 1/2" fully double flowers. **Culture:** Grow in full sun. Gather blossoms before fully opened. Likes warm weather but will bloom into fall. Germinate at 70-75°; grow on at 65-70° days and 60° nights. Do not overwater. Transplant in 6 weeks at 12" spacing. ~1,300 seeds/g.

5483FB Monstrosum Fire Ball Bright red. ③

A=0.2g, \$1.20 B=1g, \$3.20 C=5g, \$5.50

5488MX Monstrosum Mix Hot pink, light pink, white, gold and deep rose. ②

A=0.33g, \$1.10 B=7g, \$3.00 C=28g, \$6.00



SUNFLOWER *Helianthus annuus*

Annual. Sunflower remains have been found in the Tabasco region of Mexico dating from 4100 BCE. Prized for their seeds by humans and birds, and for cutflowers by market growers, sunflowers also add a lighthearted touch to gardens.

Culture: Easy to grow. Start indoors 3–4 weeks before last frost at temperatures of 65–75° or direct sow after frost, 3 to a pocket. Thin to best plant, 1' or more apart. Rich friable soil yields tallest plants; drought stunts growth. Will readily self-sow; for some fun leave a few volunteers in strategic locations.

Pollen or pollen-free? Although flower arrangers often eschew sunnies with pollen, Eliza Lindsay of Portland, OR, speaks for our pollinators: "Sunflowers that produce pollen are my favorite. They feed the bees first and later the birds." She says to grow sunflowers for cutting and to feed your pollinators, too, you must allow some of the flowers to remain uncut to complete their life cycle. Branching varieties are tops for this purpose since taking cuts encourages branching.

She offers tips for handling harvest and post-harvest for varieties with pollen. "The trick to sell them is to harvest prior to pollination. Once pollinated, flowers begin to senesce. Harvest when the petals are fully colored, clearly visible, but unexpanded and wrapped around the flower head. Harvest with long stems set in clean water in a cool dark place. Change water daily and recut stems as necessary. They will fully open in a few days, produce pollen in the vase, but have a long vase life."

All varieties have pollen unless noted otherwise.

Varities open-pollinated unless otherwise indicated.

See also 5906 Hopi Dye.

5500AO Autumn Beauty Mix OG (70–90 days) This 6–8' multibranching beauty is always a top seller. Produces a lovely mixture of earthen shades, petal colors ranging from bright yellow to bronze and purples. Most have a characteristic red ring enclosing a black center. Blossoms 4–6" across are perfect as the center of giant flower arrangements. CCOF-certified. ~45 seeds/g. ☆ ③

A=1g, \$1.20 B=4g, \$3.00 C=28g, \$7.00 D=1lb, \$62.00

5503FT Fantasia F-1 hybrid. Stately 4–5' stalks bearing 4–8" perfectly round **pollen-free** flowers. The best of 16 varieties in my grow-out. I noted a perfect blossom that opened with the month of September and was most gorgeous on Sept. 8. It was 5" across, yellow-orange with a striking dark brown center. Fantasia is a formula blend with colors ranging from white to darkest red, with double and semi-double flowers. ~22 seeds/g. ③

A=1g, \$2.10 B=2g, \$4.00 C=10g, \$11.00 D=40g, \$33.00

5507FL Florenza Attracted many comments in past sunflower trials at Common Ground Fair. Stunning brown-centered 6" flowers in maroonish red with yellow tips and a hint of yellow around the center. Mixes well with other sunflowers; makes the whole bouquet pop. 3 1/2' tall. ~40 seeds/g. ☆ ②

A=0.5g, \$1.60 B=2g, \$5.00 C=8g, \$10.00 D=24g, \$21.00

5509GH Green Heart F-1 hybrid. Stole the show and stole my heart with its bold display in my back bed in Colrain, MA. Had I planted them close to the road the golden-yellow blooms with their amazing 4" lime-green centers would have stopped traffic. These make compelling cutflowers and are **pollen-free**. Tall straight single stems grow up to 5'. A-packet size has been increased. ~15 seeds/g. ③

A=1.2g, \$2.90 B=2.4g, \$5.60
C=12g, \$16.00 D=36g, \$42.00

5512JK The Joker (60 days) F-1 hybrid. A bicolored **pollenless** beauty with two rings of petals. An interior short yellow fringe resembling eyelashes radiates from the brown disk and accentuates the big orangy-maroon yellow-tipped outer petals. Rated among the best sunflowers for cutting by horticulturalists at the University of Florida. Mottled red stalks grow 5–7' with multiple branching. A-packet size has been increased. ~22 seeds/g. ③

A=1g, \$1.90 B=2g, \$3.60
C=6g, \$8.00 D=1oz, \$21.00

Lemon Queen Luxuriant 8" blooms with lemon-yellow petals surrounding striking solid brown centers. Although it can grow up to 10' tall in rich soil, its powerful stems do not lodge. Likes high fertility; makes shorter stems and narrower petals in average soil. Not early; bloomed for Donna Dyrek in late August. ~45 seeds/g. ☆

5514LM Lemon Queen ②

A=1g, \$1.10 B=5g, \$3.00
C=20g, \$5.60 D=1lb, \$60.00

5515LO Lemon Queen OG

MOSA-certified. ②

A=1g, \$1.20 B=5g, \$3.30

5518GS Mammoth Grey Stripe (120 days) A traditional variety of giant (usually 6–12') single-stem sunflower with large seed heads. The one to grow if you want to eat the seeds or plant a maze. Beloved by both birds and kids. ~9 seeds/g. ☆ ②

A=14g, \$1.60 B=56g, \$4.00 C=224g, \$10.50 D=896g, \$32.00

5521MR Moulin Rouge (65 days) F-1 hybrid. A favorite among commercial growers for its color, though not all stems are long enough for cutting. 5–6' multi-branching stems topped by gorgeous 5–7" dark red **pollen-free** blossoms, somewhat short-lived. Burgundy petals become almost black close to the disc. The Moulin Rouge was a nightclub in Paris where Toulouse-Lautrec created much of his work, using red-headed beauties as models. This sunflower would make a fine subject for such an exuberant artist. A-packet size increased. ~22 seeds/g. ☆ ③

A=1g, \$1.80 B=2g, \$3.50 C=10g, \$6.80 D=40g, \$25.00

Pro-Cut Lemon (55 days) F-1 hybrid. *Not available this year.*

5533RE Ruby Eclipse (55 days) F-1 hybrid. Ruby-red petals with lemon tips are a vivid addition to any collection of sunflowers. The gorgeous **pollen-free** 4–5" flowers with dark centers sometimes shade into pink. 6' branching plants. A-packet size has been increased. ~25 seeds/g. ③

A=1g, \$1.70 B=2g, \$3.20 C=10g, \$10.00 D=40g, \$28.00

5536SG Schnittgold Handsome single-headed 5' sunflower. Its double ring surrounded by deep yellow petals makes a striking display. The center pollen ring is black and flat, surrounded by an auxiliary ring of brown. *Schnitt* means 'cut' in German; with 8–10" blooms, this variety makes a superb cutflower. Karen Pratt points out that Schnittdolds, when mature, get a hollow in the center—perfect for making the sunflower bird wreaths. ~25 seeds/g. ☆ ②

A=1g, \$1.30 B=3g, \$2.90 C=12g, \$7.00 D=60g, \$24.00

5539SO Selma Suns Mix OG Trialer Donna Dyrek rates these her favorite sunflowers for their fragrance, beautiful diversity and plethora of polyheading 6" blooms. Selma's heads have small dark centers, pointed petals, and display various hues and shades including yellows, golds, maroons and reds. Dyrek reports that Selma "flowers forever if the squirrels don't rip off the heads." 6–7' tall. OT-certified. ~55 seeds/g. ☆ ① **BACK!**

A=1g, \$1.40 B=3g, \$3.20 C=12g, \$6.60 D=60g, \$22.00

5541SY Soraya (80 days) The first sunflower ever to win an AAS (2000), Soraya impressed the judges with its luminescent deep orange petals, contrasting dark mahogany center disks, and sturdy branching habit. The latter accounts for its astonishing productivity, up to 25 4–6" blooms per plant, borne on stout 20" stems, perfect for cutting. Almost **pollenless**. 6' plant spreads 2–3'. ~60 seeds/g. ②

A=0.5g, \$2.20 B=4g, \$8.00 C=16g, \$25.00 D=64g, \$80.00

5545SM Summer Sensation (65 days) Vibrant 8" flowers, yellow surrounding a dark disk, on 5' plants. Can be grown as a single stem or pinched to branch out. Seedhead can be crafted into those decorative natural birdfeeders—if you don't snack on the seeds first. ~10 seeds/g. ☆ ③

A=2g, \$1.30 B=6g, \$3.20
C=30g, \$9.00 D=1lb, \$102.00

5548SD Sungold Dwarf (60 days) Danish variety much nicer than the original Teddy Bear or any of its imitators. Fully double polyheaded blooms growing on very short stems—the main stalk is only 2'—give the fuzzy effect. Blooms hold well compared to other dwarf types. *May contain some taller off-types. This is the last year we will offer.* ~50 seeds/g. ②

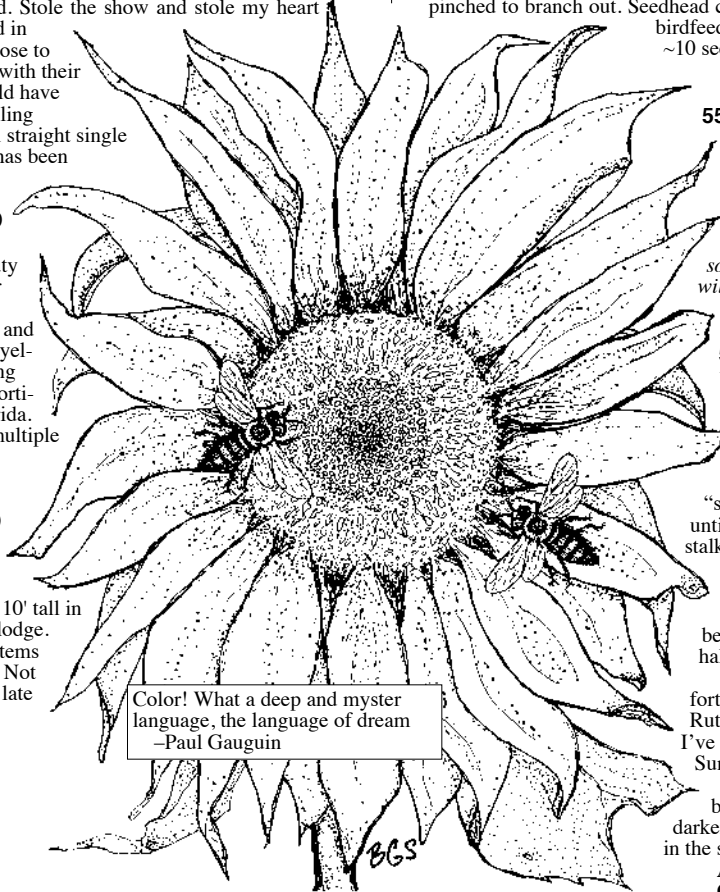
A=1g, \$1.10 B=3g, \$2.80
C=12g, \$6.00

5555VI Vanilla Ice *H. debilis* The closest we have seen to a white-petaled sunflower. Though their true color is more cream or pale yellow, the petals make a great contrast to the rich dark disk in the center. Superior to the better-known Italian White in our trial. Wini Noyes advises to "start really, really early and don't transplant until they are very strong." Polyheaded with 5' stalks, 3–4" blossoms. ~225 seeds/g. ☆ ③

A=1g, \$1.30 B=3g, \$3.20
C=12g, \$6.50 D=60g, \$22.00

5599SS Sunflower Sampler Our third-best seller among flowers. We mix seed for a half dozen or so varieties into one package so you can create a lovely display for a dollar forty. No dwarfs or mammoths. Tim Brown of Rutledge, TN, says, "I love the mixed packets. I've tried to calculate the joy/cost ratio of the... Sunflower Sampler. Always a knockout—and how do I add in the value of the joy they brought to my neighbor who had never seen darker sunflowers? I love the range of seed sizes in the sunflower packets." ☆ ③

A=1g, \$1.40 B=3g, \$3.50
C=9g, \$6.80 D=90g, \$32.00



Color! What a deep and myster language, the language of dream
—Paul Gauguin

5603AO Sweet Annie OG *Artemisia annua* (120 days) Annual. Also known as Sweet Wormwood. The scent of Common Ground Fair. We associate its pungent fragrance with the Fair where so many vendors offer it and where we sell more seed than for any other item. John Pino has brought it to the Fair Farmers' Market by the trailerload. Annie grows up to 5', with light green leaves valued for everlasting wreaths that emit their distinctive redolence all winter. Used in China, where it's known as *qing hao*, as an antimalarial and antimicrobial. Reseeds itself vigorously. Seed must be frozen for 2 days, then germinated in light. WA-certified. ~250 seeds/g. ①
 A=0.2g, \$1.50 B=0.6g, \$3.60 C=4.8g, \$7.50 D=24g, \$30.00

5611PP Perennial Sweet Pea *Lathyrus latifolius* Zones 3-10. The traditional English cottage sweet pea, grown by Jefferson in 1771, thrives in cool climates, loves sun and climbs 6'. Useful as a screen. Comes in shades of rose, white and pink in big clusters. Good cutflowers. Soak seeds up to 24 hours before sowing outdoors in early spring. Can take 3-4 weeks to germinate. ~20 seeds/g. ②
 A=1g, \$1.40 B=3g, \$3.00 C=12g, \$5.50

SWEET PEA *Lathyrus odoratus*

Annual. Native to Sicily, first domesticated around 1699 when amateur botanist and monk Father Francis Cupani shipped seed for the variety that bears his name to a hothouse grower in England. In the late 1800s extensive breeding work, especially by Henry Eckford, expanded the range of available colors. Around 1900 Silas Cole, gardener to Earl and Countess Spencer, found a sport with much larger ruffled flowers but less scent than Eckford's varieties. It created a sensation when it was exhibited in 1901. From this variation derive all modern strains including Spencer, Cuthbertson, Knee-High and Mammoth. As interest in fragrance revived, Bodger Seeds Ltd. obtained as many of the pre-Spencer varieties as possible and created Old Spice Mix in the 1970s.

Culture: Soak seeds for 12-24 hours prior to sowing. For earliest blooms, sow indoors 2 months before setting out, or sow direct in spring. Need darkness for germination, which takes 10-21 days at 60°. Old catalogs recommended sowing in a 4-5" trench

and filling in as the peas grew. To reduce root fungal diseases, always select well-drained locations and rotate them from year to year. Likes full sun and moist rich soil, but many perform poorly in heat, so mulching is recommended. If you are growing for cuts, avoid windy locations, as exposure will make plants stockier and stems shorter. Requires support. We use 8772 Trellis Plus. Harvest flowers frequently to keep blooms coming. Last only 3 days in the vase, but perfume the air incomparably. Give your love a bouquet of these! ~12 seeds/g.

Perennial sweet pea is above.

5614AM America An antique striated variety, arresting both to eyes and nostrils. Each blossom contains subtle variations of bright reds with creamy white streakings. Heavily perfumed. Looks lovely next to Cupani. First offered in 1896 by Morse-Vaughan. Vines grow to 3'. ④
 A=2g, \$1.40 B=8g, \$4.00 C=24g, \$8.00 D=120g, \$33.00

5620BK Black Knight One of 115 varieties Eckford exhibited at the Crystal Palace in 1900, bred in 1898. Highly scented deep maroon flowers tolerant of heat. 5-6' vines. ④
 A=2g, \$1.20 B=8g, \$3.20 C=24g, \$7.00 D=120g, \$30.00

Blue Celeste (60 days) Consult our website for availability and price.

5623CU Cupani Oldest and among the most fragrant of all sweet peas. Celebrated its 300th birthday in 1998 amidst a surge of renewed interest. Named for the Sicilian monk who found these bicolors growing wild, Cupani combines deep maroon-purple upper petals with deep violet-blue lower petals. Grow Cupani for enticing intoxicating aroma. 5' vines. ④
 A=2g, \$1.40 B=8g, \$4.00 C=24g, \$8.00 D=120g, \$33.00

Seed Storage: Keep your seed alive by storing it properly! Humidity and heat are the enemies of seed longevity. Humidity causes the quickest deterioration. Ideal moisture content for most seed is only 10-12% so store at low relative humidity. Use a sealed jar in your freezer or refrigerator for optimum storage. Failing that, don't ever allow the sum of temperature plus relative humidity where seed is kept to exceed 100.

- Never store seed in a humid, warm or sunny spot.
- Don't ever leave it in a greenhouse or hoop house, even for a few hours.

Stored properly, most seed will last for several years. A few seeds are good for only one year, such as onions, parsnips, parsley, chives, shiso, scorzonera, salsify, Batavian endive, licorice, pennyroyal, St Johnswort, liatris, delphinium, larkspur, perennial phlox, and any pelleted or hot-water treated seed. If in doubt, try germinating a sample in moist paper towels.

See page 101 for longevity chart for herb and flower seeds.

5626KH Knee-High Mix Semi-dwarf 20" bush-type plants need no support, produce full-length stems. Mix includes chianti, pink, blue-violet and lavender. ④
 A=7g, \$1.40 B=28g, \$4.50 C=84g, \$10.50 D=11b, \$45.00

5629MM Mammoth Mix (75 days) 4-6' staking variety. The best tall mix in our many gorgeous trials. Though temporarily slowed by heat waves, revives during each cool spell and never stops blooming from July to September. Long stems make ideal cutflowers. Mixture of crimson, scarlet, white, lavender, deep rose, medium blue and pink. The purples and reds are the most fragrant. Year after year the least finicky and most dependable performers in heat. ④
 A=7g, \$1.70 B=21g, \$4.00 C=63g, \$9.00 D=11b, \$49.00

5632MC Mrs. Collier A white sweet pea with real fragrance! We thank Marilyn Barlow of Select Seeds in Union, CT, for bringing it to our attention. Even in those hot humid nights the heavenly blooms last and exude way more scent than the whites in the Mammoth Mix. Introduced in 1907 by Dobbie & Company. 5-6' vines. ④
 A=2g, \$1.30 B=8g, \$3.20 C=24g, \$7.00 D=4oz, \$20.00

5635MS Streamers Mix (60 days) The Streamers are known in the trade as "flakes" for the boldly streaked white patterns rippling on a mix of colors—blue, lavender, pink, purple, chocolate, orange and scarlet. With its good stems, huge blossoms, abundant fragrance and surprising longevity as a cutflower, this 2002 introduction was a real coup for pre-eminent New Zealand breeder Keith Hammett. Over 5' tall. ④
 A=2g, \$1.60 B=8g, \$4.40 C=24g, \$9.50 D=4oz, \$30.00

5643CT Creeping Thyme *Thymus serpyllum* Perennial, Zones 3-10. Also known as Mother-of-Thyme or Brotherwort. Creeping sweet-scented ground cover with purple flowers good in rock gardens, between stepping stones or on dry slopes. Likes good drainage, full sun and alkaline soil. Plants grow slowly from seed, may be started indoors two months before planting, or outside in early spring or fall. Sow thickly, do not cover seeds. 2". ~6,290 seeds/g. ③
 A=0.1g, \$1.50 B=1g, \$3.50 C=3g, \$6.00 D=30g, \$32.00

TITHONIA T. rotundifolia

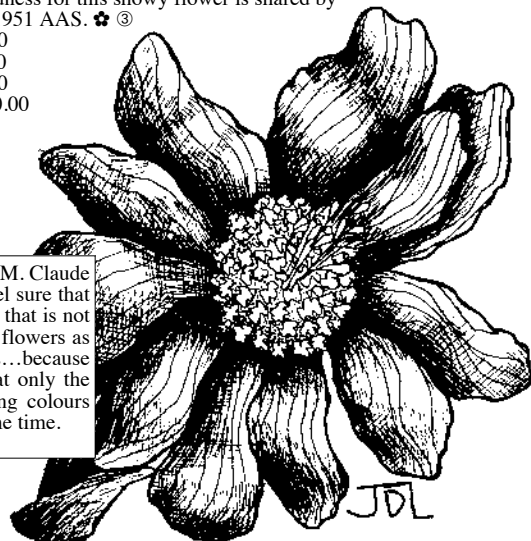
Annual. Also known as Mexican Sunflower. Attract butterflies with these tall floriferous beauties. The dressy blooms often exceed 4" across and continue over a long season.

Culture: Heat-loving plant closely related to the zinnia. Sow outdoors after danger of frost in 70-85° soil, or start indoors 6 weeks before last frost date. Tithonia sulks in the cold so don't bring it out too soon. ~100 seeds/g.

5647GF Goldfinger Bond with Goldfinger! 4' tall with bright orange 3-4" blooms comparable to Torch's. Upright and uniform habit, but more dwarf than Torch, yet with nearly as much charm and greater versatility. ④
 A=0.2g, \$1.30 B=0.6g, \$3.30 C=1.8g, \$5.60

5649TH Torch (120 days) Stately 6' plants with velvety dark green leaves bear scarlet-orange 4-5" blooms that attract hummingbirds and monarch butterflies. My fondness for this showy flower is shared by our customers. 1951 AAS. ④
 A=0.2g, \$1.30 B=0.6g, \$3.20 C=7.2g, \$5.60 D=28.8g, \$10.00

If I can someday see M. Claude Monet's garden, I feel sure that I shall see something that is not so much a garden of flowers as of colours and tones...because it was planted so that only the flowers with matching colours will bloom at the same time.
 —Marcel Proust



5661PV Purple Top Verbena *V. bonariensis* (90 days) Perennial in Zone 7-10, grown as an annual. Don't confuse this free-flowering Verbena with the hybrid dwarf bedding plant. Proud strong 3-4' stems almost without leaves topped with vibrant purple flowers that thrive in heat and bloom from July to October. Makes an ideal cutflower and mingles beautifully with other tall border plants. Hillary Nelson suggests combining with cosmos, lavender, purple zinnias and lemon mint. Attracts butterflies. Extremely drought-resistant. Erratic germination may be helped by 3-5 weeks' stratification prior to sowing. Start at temperatures of 70-75°, grow on at 55-62°. Keep growing medium fairly dry. Cutflower customers love it, but its tendency to shatter annoys some growers. ~4,000 seeds/g. ✪ ③

A=0.1g, \$1.70 B=0.4g, \$5.20 C=2g, \$11.00

5663VI Ideal Florist Mix Verbena *V. hybrida grandiflora* Annual. Multiple whorls of many 5-petaled flowers spiral centrally like little umbrellas on sturdy 12" stems. The 3" umbels come in shades of deep magenta, white, lilac, blue-violet and fuchsia, all accentuated by white throats. The multi-branching semi-sprawling habit makes this mix wonderful for beds and bouquets. ③

A=0.2g, \$1.60 B=0.6g, \$4.50 C=3g, \$15.00

Yarrow See 4699 and 4802-4804.

ZINNIA *Z. elegans*

Annual. Known as Youth and Old Age in the 1800s, this showy genus was named for German botany professor Johann Gottfried Zinn (1727-1759). One of the easiest to grow from seed and a favorite for bright color in Maine summers. Zinnia flower essence is used to bring out playfulness and lightheartedness.

Culture: Sow in a sunny spot after last frost, or start indoors for earlier blooms. They need good drainage and like heat. Jason Kafka says zinnias perform better in tunnels than in the field. With the extra heat they get so big that "they think they are in New Jersey." Cut when flowers are almost fully mature, just before pollen starts to form. Deadhead to continue production.

Germinates 3-5 days at 80-85°, more slowly at cooler temperatures. Grow on at 70° days, 60-65° at night. Temperatures below 60° delay flowering and may induce chlorosis. Space at 9-12". ~110 seeds/g except where noted.

Benary's Giants (85 days) The most elegant giant dahlia-flowered zinnia. The densely petaled double flowers regularly exceed 4" across, showy yet extremely refined, borne on long stems perfect for cutting. Highlighted by the uniform petal patterns, colors are particularly bright. Holds better than most even under the stress of high heat and rainfall. Absolutely breathtaking in ideal conditions. 3-3 1/2' plants. The zinnia of choice for market growers; on a par with State Fair Mix for home gardeners. ~120 seeds/g.

5700BL Benary's Giants Lime A trendy color in this superior series. ②
A=0.2g, \$2.10 B=1g, \$5.60 C=4g, \$13.50

5702SP Benary's Giants Scarlet. ②
A=0.2g, \$2.10 B=1g, \$5.60 C=4g, \$13.50

5704BW Benary's Giants Wine A very hot fuchsia. ②
A=0.2g, \$2.10 B=1g, \$5.60 C=4g, \$13.50

5707MP Benary's Giants Mix From yellow, orange and white to scarlet, rose-pink, coral, deep red, lilac and purple. ②
A=0.2g, \$2.10 B=1g, \$5.60 C=4g, \$16.00

5711CJ Cactus Bright Jewel Mix (75 days) Large ruffled zinnia blossoms resemble chrysanthemums. Profuse immense blooms in scarlet, orange, pink, yellow. 3' tall. ③
A=1g, \$1.10 B=7g, \$3.00 C=28g, \$6.00 D=4oz, \$15.00

5714GM Gold Medal Mix A formula blend of cherry, orange, pink, purple, scarlet, white and yellow dahlia-flowered blossoms 4-5" across excellent for cutting. Flowers are flat-petaled, semi-double on 3 1/2' plants. Bred by Bodger. ③
A=1g, \$1.10 B=7g, \$3.00 C=28g, \$6.00 D=4oz, \$15.00

5717NC Inca Waist-high stems bear striking 3-4" single blaze-orange blooms with showy little yellow doodads (disk florets) in the center. Long stems for cutting. Flowered fluorecently from July to October at Donna Dyrek's trial. ~120 seeds/g. ③
A=0.5g, \$1.50
B=1.5g, \$3.00
C=9g, \$7.50

5725PM Pumila Mix (Cut & Come Again) Small 2' plants with flowers 2 1/2-3" across. Wide range of colors includes orange, yellow, white, pink, lavender and scarlet. ~175 seeds/g. ②

A=1g, \$1.10 B=7g, \$3.00 C=28g, \$6.00 D=4oz, \$15.00

5728FL Scarlet Flame Even Gene, who doesn't like gaudy zinnias, was attracted to Scarlet Flame's elegant bright scarlet blooms. 3' stems. Predates 1934. ③

A=1g, \$1.40 B=7g, \$4.00 C=28g, \$12.50 D=4oz, \$40.00

5731SF State Fair Mix (90 days) Old-fashioned variety bears a rich array of huge single and double blooms on 30" plants. The blooms are much showier than those in the Gold Medal Mix with fully saturated colors that include red, magenta, purple, orange, lavender and pink. Our best-selling zinnia ranks fifth among all flowers. ~80 seeds/g. ②

A=0.5g, \$1.20 B=2g, \$3.20 C=12g, \$7.00 D=4oz, \$24.00

5734SW Swirls (85 days) These zinnias wowed those who saw them in our trials with their slightly fluorescent bicolor blooms of rose and white or red and yellow. The 4" flowers were fully double to semi-double with slightly ruffled flat petals borne on 2' stems. However, in our grow-out this year the blooms were all red so we are trialing for a replacement. *This is the last year we will offer.* On sale. ~190 seeds/g. ③

A=1g, \$1.10 B=7g, \$2.60

5738ZF Zowie!™ Yellow Flame (85 days) Nothing is staid about this 2006 AAS winner. Since 2010 when I first grew it, I have not been without it. Color pops right out of 3-4" semi-double blooms with glowing magenta centers and rose petals dipped in yellow at the tips. At 2-3' the well-branched plants are loaded with flowers of remarkable staying power. Whatever our tough climate dishes out, whether cold rain or steamy heat, the blooms stay clean and last long. Superb for bouquets too, with a vase life of up to 2 weeks. ~125 seeds/g. ⑤

A=0.1g, \$3.30 B=0.4g, \$11.00 C=2g, \$42.00

5748JM Jazzy Mix *Z. haageana* If you thought the smaller Mexican-style *haageana* zinnias were always more subdued than their gaudier *elegans* cousins, guess again. This mix will jazz up your patch with an array of pink, orange, carmine and burgundy-red blooms tipped yellow to carmine. Masses of sparkling semi-doubled 1 1/2" blossoms, some with a pompon effect, on slender stems cloaked in clean bright green leaves. ~690 seeds/g. ⑤

A=0.1g, \$1.50 B=0.4g, \$3.50 C=2g, \$11.00 D=10g, \$36.00

MIXES *Confundium fedcoensis*

5804BO Beneficials Mix OG Frank Morton teaches that "when you increase the diversity of an ecosystem you enhance its ability to maintain itself and to resist perturbation." One way to attract and maintain a diverse population of beneficial insects and pollinators is to sow this mix of annuals, biennials and perennials. Instead of resorting to toxic sprays, invite hover flies, ladybugs, lacewings, parasitic wasps, tachnids, spiders, minute pirate bugs, damselflies and big-eyed bugs and let them devour the "bad" bugs! Something in the mix will be blooming from spring through fall. Addressing concern over neonicotinoids and their deleterious effects on pollinators, we have redesigned our beneficials mix to contain only organic seed, ensuring that no neonicotinoids were used in seed prep, plant growth or after-harvest treatment. Consisting of anise hyssop, bee balm, borage, calendula, california poppy, cilantro, dill, fennel, mustard, parsley and phacelia, this mix will be sure to please a diverse abundance of insect helpers. Should any variety become unavailable we will substitute one with similar efficacy. Sow in spring as a hedgerow in a well-prepared weed-free seedbed close to the garden in full sun. ✪ ①②③⑤

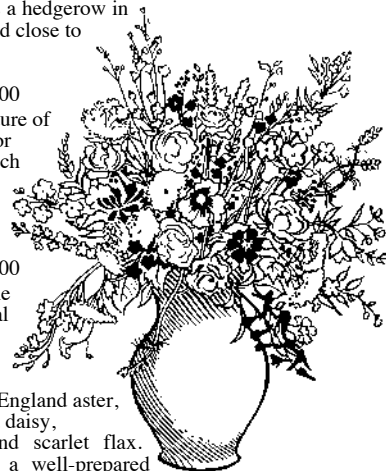
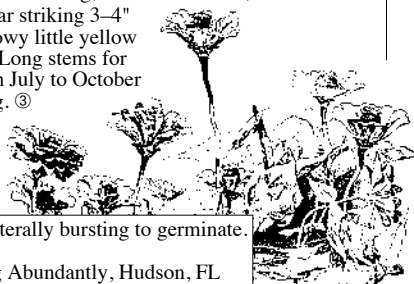
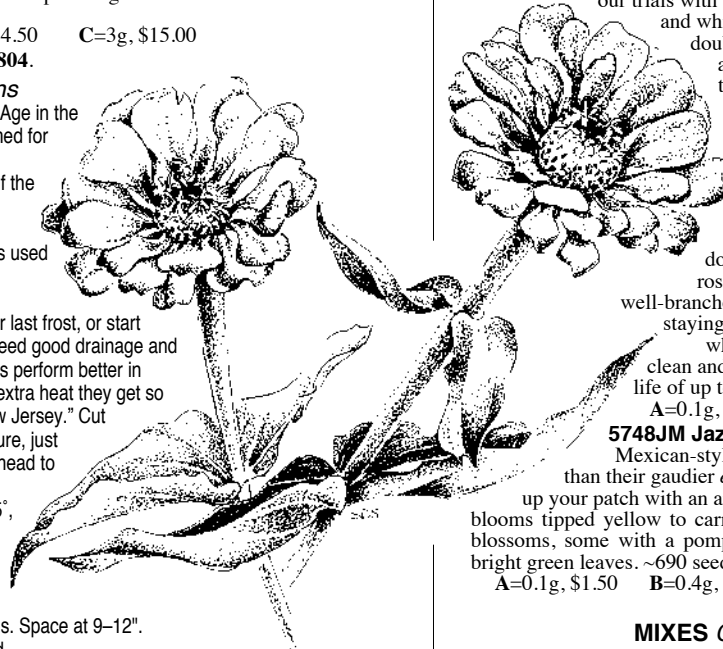
A=1.4g, \$2.20 B=7g, \$8.00

C=28g, \$25.00 D=112g, \$80.00

5807CT Cutflower Mix A mixture of annual flowers that can be used for cutting. Includes popular types such as aster, bachelor's button, calendula, cosmos, zinnia; also some lesser-known kinds. ✪ ③
A=1g, \$1.40 B=14g, \$3.80
C=56g, \$11.50 D=224g, \$34.00

5809WF Wildflower Mix for the Northeast. A blend of 19 perennial and self-sowing annual species native to or naturalized in northeast U.S. and Canada. Includes black-eyed Susan, New England aster, gayfeather, sweet William, shasta daisy, bachelor's button, echinacea and scarlet flax. Broadcast in spring or fall in a well-prepared weed-free seedbed in a sunny spot. Seed at a rate of 1 lb/4500 sq ft. ~2,143 seeds/g. ✪ ②

A=1.4g, \$1.20 B=7g, \$3.00 C=28g, \$6.50 D=1lb, \$40.00



"FEDCO seeds are full of life—literally bursting to germinate. Thank you!"

—Kimberly Blevins, Exceeding Abundantly, Hudson, FL

FLOWERS

LIVE FREE OR DYE!

Susanne Grosjean, of the Wednesday Spinners group in Downeast Maine, says, "You need only three dye plants: indigo for blue, madder for red and weld for yellow. Three primary colors, all excellent fast dye plants."

5904CS Dyer's Coreopsis Mix *Coreopsis tinctoria* Annual. A beautiful native ornamental that provides a full palette of color from yellows and greens to rusts and browns—and even black, depending on the combination of plant parts and mordants. Large cosmos-like flowers in combinations of yellow, mahogany and red atop 2 1/2' erect stems flourish in full sun and make excellent cuts. Low-maintenance and rugged. Good for less cultivated areas such as open spaces, roadsides and borders, competes well with grasses and reseeds easily. Tolerates drought. ~2,200 seeds/g. ②

A=0.3g, \$1.10 B=0.9g, \$2.80 C=4.5g, \$5.20

5906HO Hopi Dye Sunflower OG (90-100 days) *Helianthus annuus* Annual. A rare indigenous heirloom that the Hopis used as a natural dye source for coloring baskets purplish charcoal. "Blackest little seeds I've ever seen," says trialer Donna Dyrek. They will stain your hands purple when you collect them. Also edible and extremely easy to hull. 8' stalks with massive 12-18" main heads feature golden-yellow single petals around a dark purple-green center. Numerous side branches set all the way to the ground with smaller blossoms that make great cuts. Mound the soil around the base of the plants to prevent lodging. ID-certified. ①

A=1g, \$1.80 B=4g, \$5.00 C=20g, \$15.00 D=100g, \$40.00

5911ND Indigo *Polygonum tinctorium* Japanese indigo preferred by dyers in Maine. A tender annual, indigo thrives in fertile soil and likes heat and humidity. Best started indoors 6-8 weeks before the last frost, transplanted out on 1' centers and kept moist. When the plants have grown 1-2' tall and bruised leaves turn navy blue, they are ready for a first harvest. If you cut the stems several nodes up from the ground, they will re-sprout and you can harvest the re-growth, perhaps several times more. Plan ahead and prepare the dye bath the same day as the harvest. ~250 seeds/g. ②

A=0.1g, \$2.50 B=0.3g, \$7.00 C=1.2g, \$20.00 D=4.8g, \$70.00

5913MD Madder *Rubia tinctorum* Known as Common Dyer's Madder. Perennial to Zone 5 if mulched heavily. An ancient and excellent source of red dye, native to southern Europe and Asia, the 4' plants have square stems, whorled leaves and pencil-slender roots. Roots go down 2'. Do not harvest them for three years. Then dig deep to get the tap roots, not the runner roots, and grind them to yield a wash- and light-fast red dye *par excellence*. Seed can take two weeks to germinate. Start inside in April in 70+° temperatures and transplant 12-18" apart in loose soil after danger of frost. Mulch deeply and keep beds well weeded. Plants send out runners that could become invasive so dig out the runners periodically or keep the area around the beds mowed. ~45s/g. **BACK!** in the catalog; was a web special last year. ②

A=0.25g, \$2.40 B=1g, \$9.20 C=4g, \$32.00

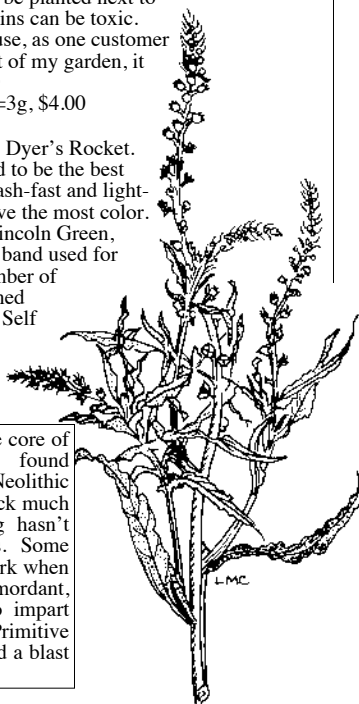
5920SW Soapwort *Saponaria officinalis* Perennial, Zones 3-9. Also known as Bouncing Bet, Bet bounces again to the dye section of the catalog. Though not a dye plant, it is included in the dye garden because its saponin-rich roots and leaves can be used to wash wool gently when some lanolin retention is desired. Museum conservators use it to wash delicate fabrics and textiles, especially of grease. This charming sweetly scented pink perennial is often seen around old homesteads in Maine. It has always been appreciated for the late-July colors of its dense clusters of 5-petaled flowers and their faint clove scent that attracts pollinators. The 3' plant thrives in moist, partially shady areas but should not be planted next to ponds with amphibians or fish since saponins can be toxic. Choose your planting spot carefully, because, as one customer warned, "Bet has taken me years to get out of my garden, it bounces everywhere." ~600 seeds/g. ③

A=0.2g, \$1.00 B=0.6g, \$2.50 C=3g, \$4.00 D=12g, \$8.00

5928WD Weld *Reseda luteola* Known as Dyer's Rocket. Biennial. Used since antiquity, weld is said to be the best natural source of deep yellow dye, both wash-fast and light-fast. Leaves, flowers and seed capsules have the most color. When overdyed with woad, weld makes Lincoln Green, said to be the method Robin Hood and his band used for their characteristic gang color. A 4-5' member of mignonette's genus, it thrives in well-drained moderately fertile preferably alkaline soil. Self sows. Attractive to bees. ~4,760/g. ②

A=0.2g, \$1.60 B=1g, \$4.00 C=4g, \$8.00

Fascination with color seems to be at the core of being human. Archaeologists have found evidence of textile dyeing dating to the Neolithic period, and colored cave paintings go back much farther. The process of natural dyeing hasn't changed much in thousands of years. Some dyestuffs, such as indigo and lichens, work when used on their own, while most require a mordant, such as alum, ammonia or vinegar, to impart light-fast long-lasting color to textiles. Primitive humans figured this out and certainly had a blast making ordinary things more beautiful.



SEED COLLECTIONS

Overwhelmed by choices? Choose a collection. We'll select the varieties, and you'll save about 10% off individual packet prices, 20% for the Freed Seed Collection.

5931BB Bee and Butterfly Pollinators

Collection Help feed the bees and butterflies and attract pollinators to your garden. Contains 10 packets.

Our choice among the following: Phacelia, poppies, calendula, nasturtium, cilantro, borage, Torch or Goldfinger tithonia, dill, Hon Tsai Tai, butterfly weed, anise hyssop, Bachelor Button Mix, sunflowers or cosmos. ②

A=6 packets, \$11.20

5933CC Chicken Scratch Clucktion A collection of quick-growing tasty greens for chickens. Grow a patch for them to graze on, or for you to clip and feed to them—or yourself. Contains 6 packets including: lettuce mix, kale mix, collards, swiss chard, Yokatta Na or Senposai, and spinach.

A=6 packets, \$6.70

5934OS Freed Seed Collection A diverse selection of OSSI-pledged varieties (see page 3). Will include lettuces, greens, leeks or onions, watermelon, calendula and more. Support the seed commons! **NEW!**

A=8 packets, \$11.90

5935GS Garden Start-up Collection Easy-to-grow varieties for spring through fall harvest. Includes garden tips for beginners. Contains 7 packets including: bush green beans, zucchini, cucumber, lettuce mix, calendula, carrot and sweet basil.

A=7 packets, \$7.40

5937KG Kids' Garden Collection Fun and playful easy-to-grow varieties to encourage young gardeners. Contains 8 packets including: Mammoth sunflower, Scarlet Runner bean, Calico popcorn, large pumpkin, purple or red carrots, gourd mix and nasturtiums.

A=8 packets, \$10.10

5938KH The Kitchen Herb Garden A collection of 7 classic culinary herbs. Basils, parsley, cilantro, dill and more to add flavor to every dish. Grow them in pots, raised beds or in your kitchen garden. **NEW!**

A=7 packets, \$7.70

5939MG Microgreens Collection Grow trays of tasty vibrant greens all year round. Contains 8 packets including: kale, collards, broccoli, purple basil, cress, arugula, mustard and spinach.

A=8 packets, \$8.20

5940PP Plenty of Peppers Collection A mix of sweets, fryers and hots. Seven varieties, one for every dish. **NEW!**

A=7 packets, \$9.00

5941WG Winter Garden Collection Plant in early fall for harvest through the winter in high tunnels in mild climates. In cold climates, plant in high tunnels to overwinter for early spring harvest. Contains 6 packets including: kale mix, spinach, carrot, arugula, cilantro, Yokatta Na or Purple pac choi.

A=6 packets, \$6.80

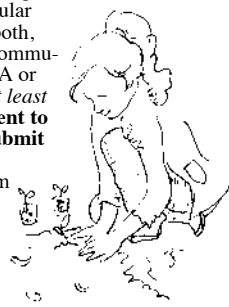
Sell Seeds for a Green School Fundraiser!

Tired of candy sales and want a school fund-raiser with a wholesome green message? Start a school seed store. We offer three options:

- **Packet Seed Store:** Purchase multiple small-size packets and resell them at a profit. Get our volume discount plus 5%.
 - **Bulk Seed Store:** Purchase large packets, repack each into many small ones for greater fun and larger profits. Get our volume discount plus 5%.
- You may order by mail or online with either option above. There is no special order deadline, but plan to order early so you will have the packets ready in February and March when your customers are thinking gardens. We can help you select varieties.

• **Convenience Pre-order:** 65 participants in 2016 distributed more than 23,000 seed packets and raised more than \$20,000 for their groups. A remarkable 65% of those who try this sale return the following year. We customize an order form with 25 popular easy-to-grow varieties for each participating group. We offer two options: our regular selection or an all-organic listing. Choose one or both, download and circulate to take orders from your community. We split the take with your school group, PTA or non-profit. **You must make a commitment to sell at least 100 packets. The deadline to contact us with intent to participate in the Pre-order is Feb. 24 and to submit your order is March 17.** Visit http://www.fedcoseeds.com/seeds/seed_school.htm for more info.

We will work with any school, PTA or other nonprofit youth groups. Contact CR Lawn by email at seedquality@fedcoseeds.com. Please, no calls.





Fedco's Packet Rack Program for Retailers

Portable cardboard packet racks suitable for all our A-size packets. The top slots hold about 4 packets of peas, beans or corn; all slots hold at least 10 packets of the other crops. Dimensions for the 28-slot rack are 14" deep, 20" wide, 62" high. For the 56-slot rack 14x30x64". Each collection has 28 or 56 varieties and either 5 or 10 packets of each variety.

5951 Popular Favorites 28 best-selling varieties. 20 vegetables, 4 herbs, 4 flowers, 6 organic.

- A=5 packets of each with rack, \$201.50
- B=10 packets of each with rack, \$368.00
- C=5 packets of each without rack, \$166.50
- D=10 packets of each without rack, \$333.00

5952 Popular Favorites 56 best-selling varieties. 42 vegetables, 7 herbs, 7 flowers, 17 organic.

- A=5 packets of each with rack, \$400.00
- B=10 packets of each with rack, \$764.90
- C=5 packets of each without rack, \$365.00
- D=10 packets of each without rack, \$730.00

5953 All Certified Organic 28 best-selling organic varieties. 23 vegetables, 2 herbs, 3 flowers.

- A=5 packets of each with rack, \$243.80
- B=10 packets of each with rack, \$452.60
- C=5 packets of each without rack, \$208.80
- D=10 packets of each without rack, \$417.60

5954 All Certified Organic 56 best-selling organic varieties. 42 vegetables, 7 herbs, 7 flowers.

- A=5 packets of each with rack, \$460.70
- B=10 packets of each with rack, \$886.40
- C=5 packets of each without rack, \$425.70
- D=10 packets of each without rack, \$851.40

5955 All Heirlooms 28 heirloom varieties. 24 vegetables, 1 herb, 3 flowers, 10 organic.

- A=5 packets of each with rack, \$211.40
- B=10 packets of each with rack, \$387.80
- C=5 packets of each without rack, \$176.40
- D=10 packets of each without rack, \$352.80

5956 All Heirlooms 56 heirloom varieties. 44 vegetables, 4 herbs, 8 flowers, 20 organic.

- A=5 packets of each with rack, \$391.00
- B=10 packets of each with rack, \$747.00
- C=5 packets of each without rack, \$356.00
- D=10 packets of each without rack, \$712.00

Ground rules:

- **Rack orders qualify for all regular volume discounts**, as do re-orders of \$50 and over.
- Rack orders may be combined with individual packet orders to reach higher discount levels.
- Packets are our regular design. We will furnish samples on request.
- Pre-order, prepay.
- Free shipping on all orders.
- All re-orders will be advanced to the front of the line for fast service.
- No returns.
- Varieties our choice; no substitutions.
- We will make substitutions if we run out of any items in our selection.
- Reorder requests will be honored until June 1.
- Retailers remove packets from racks by July 31; don't sell stale seed.
- No suggested retail. Determine the profit margin you need.
- Questions? email questions@fedcoseeds.com.

For a list of specific items in each rack, download from our website at www.fedcoseeds.com or write or call for a paper copy.

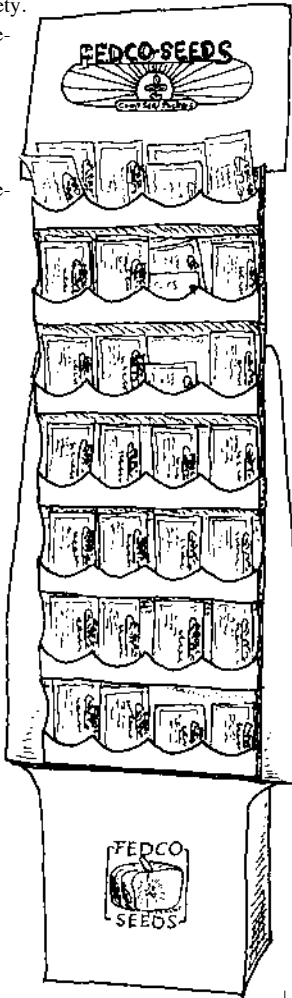
Seed Envelopes Our reclosable seed envelopes, plain white with no logo. Use them for seed saving, repacking bulk seed, or tucking away small objects. Two sizes. Volume discounts apply.

5959SD Seed Envelopes 3 1/4 x 4 3/4"

- A=bundle of 10, \$2.25
- B=bundle of 50, \$6.00
- C=bundle of 100, \$9.00

5960SE Seed Envelopes 3 5/8 x 5 1/2"

- A=bundle of 10, \$2.50
- B=bundle of 50, \$7.00
- C=bundle of 100, \$11.00



Probably Your Last Chance in 2017

- 508 Spring Treat hybrid sweet corn: Being replaced by **506** Cafe.
- 985 Delicious 51 muskmelon: Possible replacement in the wings.
- 987 Rocky Ford muskmelon: Sales have been slow.
- 1619 Pink Banana squash: Slow sales doom this large squash.
- 1965 Baby Bottle gourd: The demand is baby, too.
- 2094 Sugarsnap carrot: Bayer item. Bayer is buying out Monsanto.
- 2124 Albino beet: This year it gets its final reprieve unless sales pick up.
- 2418 Megaton leek: Another Bayer item. Bayer to be a mega-corporation...
- 3370 Super Red 80 cabbage: Supplier is dropping this super cabbage.
- 3647 Mars celebriac: Bayer again. ...if the \$66 billion merger goes through.
- 4061 Black Krim tomato: Two candidates are battling it out to replace Krim.
- 4218 Bobcat hybrid tomato: We don't think this cat has enough flavor.
- 4236 Heather hybrid tomato: **4241** Momotaro bests it in flavor and texture.
- 4273 Aria tomato: Swan song for Aria unless sales pick up.
- 4467 Sacred basil: A superior replacement waits its turn.
- 4813 Leda ageratum: Slow sales doom this ageratum.
- 4832 Green love lies bleeding: Sent to us by mistake; to be sold out.
- 5411 Gentian sage: Another with slow sales.
- 5548 Sungold Dwarf sunflower: Too much variation in the type.
- 5734 Swirls zinnia: Lot grow-out was off-type; trialing for a replacement.

Dropped Varieties for 2017

- 247 Montpelier bean: No crop this year.
- 265 Indy Gold bean: Its final checkered flag. Check web for **265** Gold Rush.
- 295 Blue Coco bean: No crop.
- 307 Black Kabouli bean: Crop failure.
- 321 Mitla bean: No crop.
- 366 Agate pinto bean: Replaced by **368** Croissant.
- 558 Sumptuous hybrid sweet corn: See the catalog for many new selections.
- 588 Luscious hybrid sweet corn OG: Dropped by its supplier.
- 602 Lancelot hybrid sweet corn: A revamped sweet corn selection awaits.
- 626 Spring Snow hybrid sweet corn: **622** Sugar Pearl is a delicious sub.
- 764 Magical Mystery Pea: We've been dying to take you away.
- 885 Mega sugarsnap: This year's modest crop became stock seed.
- 943 Prescott Fond Blanc melon: Crop failure this year.
- 950 Sweet Freckles melon: Slow sales brought about its demise.
- 986 Montreal Market melon: Our search goes on for this storied heirloom.
- 1021 and 1022 Early Moonbeam watermelon: Total eclipse for this season.
- 1520 Lemon squash: Customer sales indicated that this was a lemon.
- 1615 Squisito squash: Crop failure squeezes this out of the catalog.
- 1952 Shennet Crown of Thorns gourd: Slow sales the thorn in its side.
- 1963 Speckled Apple gourd: Slow sales indicate not the apple of your eye.
- 2091 and 2092 Nelson carrot, pelleted and not: Its supplier dropped Nelson.
- 2095 Jeannette carrot: Also dropped by supplier. We hardly got to know you!
- 2282 Shinden Risoh daikon radish: Also supplier dropped.
- 2327 Skirret: A hard seed crop to grow successfully. Not done this year.
- 2472 Copra onion: Discontinued by the supplier; this one hurts!
- 2768 Lingua di Canarino lettuce: Tongue tied by crop failure.
- 2841 Nancy lettuce: Another crop failure that hurts.
- 2859 Kalura lettuce: We like this one a lot; hope to have back in 2018.
- 3316 Purple Peacock broccoli: Peacock doesn't spread its fan. Crop failure.
- 3318 Thompson broccoli: For a good OP try **3325** Umpqua.
- 3336 Roodnerf brussels sprout: How rude of it to be dropped by supplier.
- 3458 Baltisk Purpurkal kale: Multiple crop failures postpone for a year.
- 3645 Brilliant celeriac: Catalog offers two alternatives.
- 3752 Superette Banana pepper: Anna Banna ain't got a banana.
- 4008 Husk Cherry: Replaced by **4005** Aunt Molly's Ground Cherry.
- 4015 Verde Pueblo: Replaced by **4012** Purple Blush tomatillo.
- 4032 Ida Gold tomato: Replaced by 4051 Jaune de Flamme
- 4071 Soldacki tomato: Seeking a grower for this variety.
- 4084 Schmeig Striped Hollow tomato: Crop failure.
- 4106 Honeydrop cherry tomato: Crop failure.
- 4136 Vilms tomato: No crop this year.
- 4141 Hog Heart tomato: We need a grower for this variety
- 4146 Blue Beech tomato: No crop this year.
- 4293 San Diego paste tomato: Replaced by **4296** Pasta.
- 4441 Aromato basil: Supplier increased price fourteen fold.
- 4448 Lemon basil OG: We found off-types in the production.
- 4456 Red Rubin basil: Replaced by **4459** Midnight Ruffles.
- 4959 Startrek celosia: Dropped by the supplier.
- 5107 Las Vegas White globe amaranth: Dropped for microscopic sales.
- 5173 Tanagra lavatera: Another lovely but poky seller; deserves better.
- 5236 Tashkent marigold: Replaced by **5226** Court Jester as we juggle list.
- 5304 Blueberry Glow pansy: Our supplier has permanently dimmed it.
- 5366 Drama Queen poppy: Enough drama for one year: crop failure.
- 5371 Fluffy Ruffles poppy: Don't get ruffled, these poppies will be back.
- 5530 Pro-Cut Lemon sunflower: Didn't make the cut; crop failure.



SEED RACKS

Item Number Changes

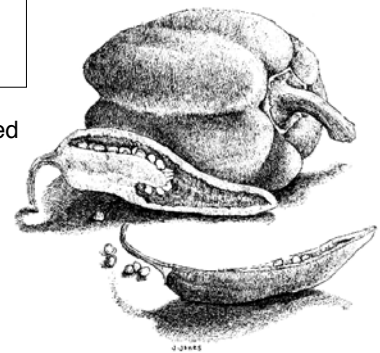
Please take note if you keep your order on your spread sheet:

| item | was | now |
|---------------------------|------|------|
| Yaya carrot unpelleted | 2093 | 2092 |
| Claytonia | 3049 | 3050 |
| Bouncing Bet now Soapwort | 4901 | 5920 |

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Fedco Tree Sale April 28 & 29 for preorders
 May 5 & 6 Public Sale

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