



Organic Growers Supply

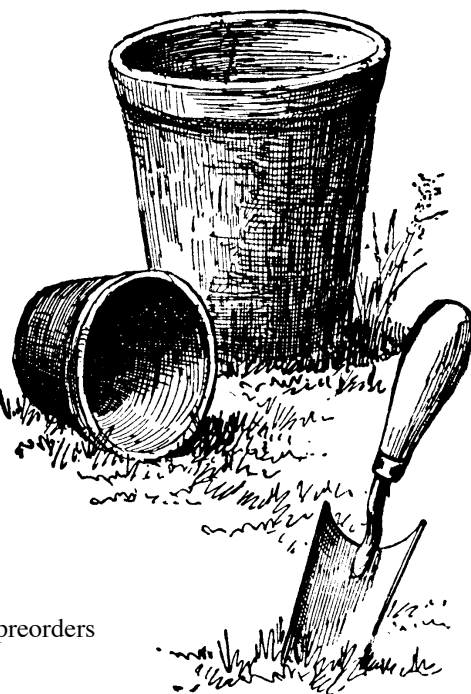
Index

Agribon	122
Agri-gel	112
Alfalfa	111
Alfalfa Meal	114
Avena Botanicals	129
Azomite	113
Barley	110
Baskets, Bags, Boxes	128
Books	130-137
Bt	118
Buckwheat	110
Clovers	111-112
Compost	116
Copper	117
Corn	109
Cover Crops	108-112
Deer Stopper	117
Diatomaceous Earth	119
Drip Irrigation	126-127
Entrust	118
Fabrics	122
Feed Supplements	119
Felco Pruners	123
Fertilizers	114-115
Flame Weeders	125
Foliar Sprays	115

2010

Forage Crops	109-112
FulvaGrow	115
Fungicides	112, 116-117
Gloves	129
Grafting Supplies	123
Grasses & Grains	94, 109-110
Gypsum	113
Hand Tools	123-125
Inoculant	24, 112
Insecticides	116-118
Insects, Beneficial	119
Irrigation, Drip	126-127
Labels & Markers	128
Legume cover crops	111-112
Loppers	123
Menafee Humates	113
Naturalis	118
Neem Oil	115
Oats	110
Orchard Tools	123-124
Pasture Grasses	109-110
Peas	111
Pest Control	116-9, 127-8
Phosphates	113-114
Planting Mixes	114
Potting Mixes	121
Pruning Tools	123-124
Pyganic	118
Radishes	110
Refractometer	122
Rock Powders	113-114
RootShield	112
Row Covers	122
Rye	110
Ryegrass	109
Season Extenders	122
Seaweeds	115

Seeders	125
Seed-Starting	120-121
Serenade	116
Sluggo	118
Smart Cart	125
Soil Amendments	113-115
Soil Blockers	121
Soil Test Kits	122
Soybeans	111
Soybean Meal	115
Spelt	110
Sprayers	124
Spreader-stickers	117
SucraShield	117
Sunchokes	102
Surround	117
Thermometers	122
Timothy	109
Tools	123-125
Tree Planting Mix	114
Vetch	111
Wheat	110



Fedco **Tree Sale** April 30-May 1 for preorders
May 7-8 Public Sale

Ordering information

Fedco Division	Goods offered	Descriptions begin	Order form	Discount deadline	Ordering deadline	Shipments
Seeds	vegetables, flowers, & herbs	page 11	page 70A	none	mail: Mar. 19 online: Sept. 30	January 7–April January 7–Oct.
Moose Tubers	seed potatoes, onion sets	page 99	page 70C	February 19	March 12	early April–early May
Organic Growers Supply	soil amendments, cover crops, tools, supplies & books	page 107	page 70E	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.

Full Index on Back Cover

A Fedco Primer for New Friends and Old

Fedco has four divisions: Seeds, Moose Tubers and Organic Growers Supply, Trees, and Bulbs, and sends out three catalogs annually. We work out of two warehouses on the Bellsqueeze Road in Clinton, Maine. Our business office is in nearby Waterville. We do not have a retail store. We deal exclusively by mail and internet orders except during designated pickup and public sale days, our annual excursion to the Common Ground Country Fair, and periodic visits to other special events.

In our part of the world frosts can occur nine months of the year and the ground remains frozen for about five months from late November until mid-April.

Trees are alive, highly perishable, must be kept cool and wet and cannot freeze. We ship trees and perennial plants only in the spring.

Fall bulbs and garlic are alive, perishable, need to be kept cool but cannot freeze. We ship only in fall just before planting time.

Seed potatoes and onion sets are alive, perishable, must be kept cool but cannot freeze. We ship only in April and May.

Seeds are alive, dormant, must be kept cool and dry, may freeze if kept dry. We ship peak-season orders in January–early spring. From April–early October we ship internet orders only.

Books and supplies are not alive. We ship year-round. We ship **cover crops**, which are alive, year-round when available.

How to Order

Mail your order to Fedco Seeds, PO Box 520, Waterville, ME 04903. Please *do not* use certified or express mail—they *delay* our receipt of your order.

Order online at www.fedcoseeds.com. We no longer accept orders by fax.

All orders must include check, money order, or Visa or MasterCard information. We request that orders under \$25 pay with a check or money order. Please do not send cash. Sorry, we do not accept food stamps.

Because they work out of separate warehouses and/or have separate shipping schedules, each division has its own order form.

- Please use the proper order form for each division.
- Please do not mix orders from separate divisions on one form.
- 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 the proper form, then add division totals to figure your grand total.

How Not to Order

- Sorry, we do not accept phone or fax orders.
- Sorry, we do not have a rush order service.
- You may not combine orders from different divisions to qualify for discounts or to avoid small-order handling charge.

Fedco Gift Certificates

Send us payment for the amount of the certificate, the name of the recipient and where to send the certificate. We will send it right away. Fedco gift certificates may be used to order from any of our divisions.

Fedco Facilitation

phone: (207) 873-7333

email: questions@fedcoseeds.com

Regular phone hours: Jan.–May 15, Mon–Fri, 9am–4pm.

We are available Wednesdays and at irregular hours the rest of the year. Contact us to:

- Request more catalogs or order forms. These may also be downloaded from our website.
- Get answers to ordering questions.
- Receive freight quotes and prices for bulk quantities for Moose Tubers & Organic Growers Supply.
- Resolve problems.

Often we are most efficiently able to provide service by email. We will reply to your emails as soon as we can. Please do not email and call about the same issue without first allowing us a few days to respond.

We are committed to offering quality products that are reasonably priced and to providing fair wages for our worker cooperative members. We ask your cooperation in helping us keep our labor costs and our prices down by avoiding the following calls or emails which add costs without offering you benefits:

- Frozen spuds: We cannot ship potatoes until April because we do not have a potato storage facility. Seed stock arrives at the end of March.
- Nervous Neds & Nellies: For seeds and supplies please allow at least 2–3 weeks after sending order before calling. For spuds, see above.
- Order corrections: For one or a few mistakes please mail back the correction form on the back of your invoice instead of calling.
- Deadline dilemmas: At, around, or just past deadlines, please send in your order. We'll do the best we can. Please do not call.
- Way past deadlines: We take order deadlines seriously. Please remember the refrain of the old Brooklyn Dodger fans and "Wait till next year!"

Visit our Website:

www.fedcoseeds.com

- to order online.
- to download paper order forms.
- for up-to-date information on backorders and out-of-stocks for all divisions.
- to see photos of some of our cultivars.

Original art: John Bunker, Laura Childs, Gene Frey, Bob Ingalls, Jennifer Jones, Samantha Jones, Wendy Karush, Jocelyn Langer, Margaret Liebman, Pam McKeen, Yvonne Montpelier, Rachel O'Meara, Lindsay Robbins, Bria Sanborn, Pippa Stanley, Sue Szwed, Gabriel Willow
Seeds copy: CR Lawn

Seeds cultivar selection: Roberta Bailey, Nikos Kavanya, CR Lawn

Moose Tubers copy: Margaret Liebman

OGS copy: David Shipman

Editor: Susan Kiralis

Layout: Gene Frey, Bria Sanborn, Laura Childs

"Your online ordering is fast and intuitive."
—Heather and Michael Ramsay, Verona, PA

How To Order Seed Potatoes from Moose Tubers

- For mail orders please use the order blank in the center of the catalog on page 70C.
- Variety descriptions begin on page 99.

Moose Tubers Deadlines

Orders received by: qualify for:
 Feb 19 Volume discounts, best selection, early April shipping
 March 12 Final orders for the season, potato supply limited

Moose Tubers Discounts

- We must receive your order by February 19.
- Figure your discount from your order total **before** shipping.
 - Orders over \$200 deduct 5%
 - Orders over \$400 deduct 10%
 - Orders over \$850 deduct 15%
- For amounts over 1000 lbs, please download our bulk price list or call or write for one.

Moose Tubers Shipping

- We begin shipping Moose Tubers orders in early April.
- We cannot ship before that; please do not ask us to do so.
- We will ship orders received by February 19 by April 16.
- We will ship common carrier orders beginning April 5.
- We ship sunchokes separately in early May.

Sales tax: Maine residents and pickup customers only! All items are taxable. No tax on orders shipped out of state. Maine farmers: Please send us a copy of your state resale certificate or farm exemption. Otherwise we must charge sales tax.

Order online at www.fedcoseeds.com.

With heightened attention to credit card security, we are no longer retaining any card information in our files. We will charge all orders as we receive them. We will send you a bill or a refund for any adjustments when we ship your order. We cannot charge the adjustments to your credit card.

To Order Supplies & Cover Crops Organic Growers Supply

- For mail orders please use the order blank in the center of the catalog on page 70E.
- Order by April 23 for pickup at the Tree Sale.

- There is no final order deadline for OGS. After the Tree Sale, the OGS warehouse will be open Wednesdays from 9:00–4:00 for pickups and walk-in customers.
- Introduction on p. 107, descriptions begin on p. 109.

OGS Discounts

- There is no deadline for discounts.
- Figure discounts from your total **before** adding shipping charges.
 - Orders over \$200 deduct 5%
 - Orders over \$400 deduct 10%
 - Orders over \$800 deduct 15%
 - Orders over \$1600 deduct 20%
 - Orders over \$2500 call for a quote.



OGS Shipping

- We begin daily shipping of Organic Growers Supply orders on Jan. 14.
- Generally we will ship your order within one week; however, orders received between March 12 and April 5 may take longer; please be patient.
- From mid-May to mid-January we ship once a week, usually Weds.

OGS prices subject to change without notice. 2010 prices go into effect in November 2009. Check online for updates.

- Contact us if you need more order forms or download them from the web: www.fedcoseeds.com.
- Be sure to include shipping charges (see chart below).
- **Groups** mail us all the individual orders from your group along with one payment and one order form as a cover sheet for group totals and shipping address. We will ship individually packaged orders to *one address*. Group gets volume discount and shipping rates based on the combined total. We recommend making copies of orders before sending them.

Shipping

- We ship via **UPS** ground or **USPS Priority Mail**; our choice, based on weight.
- Prices do not include shipping. Use the chart below to figure shipping costs.
- We ship all orders to **Alaska** and **Hawaii** by **Priority Mail**.
- We do not use parcel post for shipping. If UPS can't find your house, please arrange delivery to your workplace or a neighbor, or pay the Priority Mail rates.
- If you require **Priority Mail**, use the rates for **AK and HI**.

Common Carrier

- In New England, we have a flat rate for pallets weighing up to 2000 lbs. ME, \$70; NH & MA, \$78; VT & RI, \$85; CT, \$90; NY (zip codes beginning with 105-109, 120-149) \$105; NYC, LI & NJ, \$140. For home or school deliveries, add \$100 per pallet.
- For delivery to other states: If your shipment weighs more than 1000#, call us with the estimated weight and the destination zip code. We will check with trucking companies and quote you a price. In some instances UPS will be cheaper. Include with your order a phone number where you can be reached during the day.

Pickup

OGS orders We will send a postcard (usually within 2 weeks of receiving your order) with directions and your order number when your order is ready to pick up. From Jan. 8 through April 23 you may come **Wednesdays or Fridays** 9:00–4:00. After April 23, you may pick up **at the Tree Sale**. After May 8, you may pick up **Wednesdays** 9:00–4:00. If your order is over 500 lbs, please call the day before you plan to come or be prepared to wait.

Moose Tubers orders are only available for pickup **at the Tree Sale**. Fri and Sat, April 30–May 1, from 9:00–3:00 are reserved for customers with orders to pick up. Public Tree Sale days are Fri and Sat, May 7–8, from 9:00–3:00. We will send a postcard with directions and your order number.

- We do **not** ship to **Canada**, and will not provide materials required for importation permits.

If your order weighs And your zip code begins with:	0-2 lbs.	up to 5 lbs.	up to 10 lbs.	up to 15 lbs.	up to 20 lbs.	up to 25 lbs.	up to 30 lbs.	up to 35 lbs.	up to 40 lbs.	over 40 lbs.	over 200 lbs.	over 500 lbs.	For larger orders, consider Common Carrier. Up to 2000 lbs:
030-059	\$4.60	\$9.15	\$10.10	\$11.00	\$11.60	\$12.55	\$13.60	\$14.40	\$15.30	38¢/lb	30¢/lb	19¢/lb	ME \$70.00
010-029, 060-069, 119-136	\$4.90	\$9.40	\$10.25	\$11.40	\$12.55	\$13.85	\$15.10	\$16.35	\$17.60	44¢/lb	35¢/lb	24¢/lb	NH & MA \$78.00
070-089, 100-118, 137-227	\$5.30	\$10.30	\$11.00	\$11.70	\$12.95	\$14.50	\$16.15	\$17.80	\$19.35	48¢/lb	38¢/lb	27¢/lb	VT & RI \$85.00
228-475	\$6.20	\$10.50	\$11.50	\$12.45	\$14.35	\$16.30	\$18.30	\$20.30	\$22.30	56¢/lb	43¢/lb	32¢/lb	CT \$90.00
476-574	\$6.55	\$11.00	\$12.20	\$14.55	\$17.00	\$19.70	\$22.50	\$25.15	\$27.65	69¢/lb	51¢/lb	39¢/lb	NY (except NYC) \$105.00
others except AK & HI	\$7.50	\$12.00	\$14.50	\$18.50	\$22.35	\$26.35	\$30.40	\$34.40	\$38.25	95¢/lb	65¢/lb	53¢/lb	NYC, LI, NJ \$140.00
AK, HI & All Priority Mail	\$7.50	\$15.85	\$25.05	\$30.50	\$34.40	\$38.15	\$45.25	\$52.40	\$59.65	\$1.50/lb			For other locations call us at 207-873-7333 for more information.

Organic Growers Supply

I looked back to what I wrote here last year when we had just come through a summer of soaring energy prices, weird growing conditions and the beginnings of the biggest financial collapse in 75 years. Despite all that, we were about to elect a new president and there was optimism in the air. The election of Barack Obama gave me hope that, even if nothing else changed, the level of political discourse would improve and we could begin facing the problems that confront us dispassionately. Now, a year later, we've been through an incredibly expensive bailout of the banks that's enriched the pockets of the malefactors and left a horrible unemployment situation untouched; we've had a summer of artificially induced hysteria over health insurance; we've seen a Republican party adopt Nancy Reagan's "Just say no" anti-drug nostrum as a governing principle. The political climate is as ugly as it ever has been. And yet, Barack Obama was awarded the Nobel Peace Prize, largely for raising the level of discourse and civility on the international stage. Would that he have such influence here.

Although health care has dominated the public's attention, new food safety regulations are making the rounds in Washington. We are fortunate that Russell Libby, the director of Maine Organic Farmers and Gardeners, has been part of this process. He has worked long and hard to get the legislators and their assistants to recognize that the only safe food system is one built on local agriculture. His message may be too troubling for our senators. Mike Enzi, the ranking Republican on the Senate committee working on a food safety bill, refused to let Russell testify. Shamefully, the Democrats went along with this outrage in the name of "bi-partisanship."

The supposed safeguards already in place don't work. This point was brought home forcefully in an Oct. 4, 2009, front-page New York Times article on an E. coli outbreak in 2007 traced to frozen hamburgers produced by Cargill. Too many corners get cut, too many questions go unasked, because to answer them might cut into profits. Companies like Cargill don't report problems with tainted meat from their suppliers because to do so would make it harder for them to buy cheap ingredients and would hurt their bottom line. By the time Congress realizes there is a problem, it is too late. Regulations are being crafted to meet the needs and practices of the biggest corporations—not to ensure safety of our food, but to protect big corporations from liability. Safe food is food produced by people you know and trust, people whose interests and concerns don't begin and end with profits, people rooted in their communities. The regulations, as they currently read, will hurt small producers and farmers (who aren't part of the problem in the first place) and will make it harder to build a local food economy.

It may look as though our hopes and dreams have been shattered again. But we are farmers and gardeners and we know better: it takes years to bring a degraded environment back to life. It takes careful cultivation, wisdom, humility and most of all patience. We know that years of neglect and abuse can't be repaired in a season.

As a nation, we've spent years neglecting the roots of our well-being and it will take years of patient nurturing, thoughtful policies and concerted communal action for our nation to flourish once more. As our problems get bigger and become harder, if not impossible, for government to deal with, we have to show that the answers lie in small local solutions, not in Cargill and Monsanto's attempt to take complete control of our food system.

As practitioners of local, organic, sustainable agriculture we can be leaders in bringing the national discourse back to a fertile plane with our words and our practice as we work to rebuild our farms, improve our gardens and fields, and restore our communities. We can show that a healthy nation is built up from healthy local communities. Big agribusiness and the Walmarts of the world are degrading the word 'organic.' Monsanto is co-opting the word 'sustainable.' But we can, as Dave Podoll says, strive to create an agriculture that endures. That's a claim the Monsantos of the world can never make.

David Shipman, OGS coordinator

Complete Ordering Instructions

See page 4. Order form on p. 70E in center of catalog.



New!

- J Reid Yellow Dent Corn
- Forage Radish
- FulvaGrow
- SucraShield
- NuFilm P
- Buckwheat Hulls
- Bone Char
- Felco Hoof Shears
- Farmstand Supplies
- Arm Guards
- Menswork & Kidswork Gloves

Additional Savings

- With our commitment to cooperation, we offer savings on large orders and volume purchases. We encourage you to take advantage of our discounts by joining or forming an ordering group with friends and neighbors.
- Many of our rock powders are available in 2000 lb. bags and full or partial truckloads. We bring in several truckloads a year and would be happy to arrange a load or partial load for you. Call Ed Hamel at 207-873-7333.

If there is a product you think we should offer, let us know about it. If there is something you would like us to find for you, let us know that too. Cover crops and amendments can be ordered in 50 lb. lots.

ORGANIC CERTIFICATION

We are a MOFGA Certification Services LLC-certified organic repacker and handler of seed and feed. **Organic seed** is labeled **OG**.

We buy organic seed from certified organic farms and other certified organic handlers. Any seed you buy from us that is labeled organic comes from one of those two sources.

All of our seed is untreated.

Soil amendments, fertilizers and pesticides labeled as:

OMRI: Organic Materials Review Institute, an independent nonprofit organization that evaluates brand-name products for organic use. Most state certifying agencies, including MOFGA, accept OMRI approval.

WSDA: The Washington State Department of Agriculture's Organic Certifying division has approved these products for use in organic agriculture in Washington State. MOFGA has indicated that they will accept products on this list for their certification program. Check with your local certifier.

Nat'l List: One-ingredient products on the NOP* List of Allowed Substances, paragraphs 205.601 and 205.603. Check with your local certifier.

MOFGA: Maine Organic Farmers & Gardeners Association. Reviewed by MOFGA's organic crop specialist and allowed for use on MOFGA Certification Services LLC-certified farms.

AYC: Products whose active ingredient is on the list of allowed substances, but which are not on the **OMRI** or **WSDA** list. Ask your local certifier.

Not Allowed: A few of the products we list are not allowed for organic production but we think they have a place in sensible agriculture and can be used when certification is not an issue.

USDA NOP rule concerning disease and pest control: An OMRI or other certification label is *not sufficient* to warrant use of pest- and disease-control products by certified growers. Before using any product for pest or disease control, you must have followed the National Organic Program rule 205.206 (e) "When the practices provided for in paragraphs (a) through (d)...are insufficient to prevent or control crop pests, weeds, and diseases, a biological or botanical substance or a substance included on the National List of synthetic substances allowed for use in organic crop production may be applied to prevent, suppress or control pests, weeds, or diseases: Provided, that, the conditions for using the substance are documented in the organic system plan."

For more information or the complete text of the rule go to: <http://www.ams.usda.gov/AMSv1.0/> and click on National Organic Program in the left hand menu column, then on Regulations on the right, then on Electronic Code of Federal Regulations in the center.

At the Organic Growers Supply section of our website, fedcoseeds.com, we have posted our list of soil amendments, fertilizers, and disease and insect controls along with their certification status and manufacturers' addresses.

The certification information is the best of our knowledge at press time. We cannot be responsible for errors or changes. In order to be certain that a product is allowed, check with your certifier.

*The Organic Foods Production Act of 1990 as amended authorizes the U.S. Department of Agriculture to administer the National Organic Program (NOP) in order to implement the provisions of the Act.

Cover Crops at a Glance

Cat #	Description	Planting Time ^{††}	Seeding Rate [†]		Best Uses*	Organic Matter produced/acre
			#/1000ft ²	#/acre		
Grasses and Grains						
8011-3	Red Fescue	LSu	2-3#	100-130#	lawn, pasture	
8016-8	Festulolium	Sp	1#	35-45#	pasture, hay	6,000#
8021-7	Orchard Grass	ESp, LS or W	1/4#	10-14#	pasture, hay	2,000-5,000#
8031-3	Annual Ryegrass	ESp, LS	1/2-1#	14-35#	pasture, soil builder, weed control, erosion control, N trap crop	3,300-4,000#
8036-43	Perennial Ryegrass	ES	1/2-1#	14-35#	pasture, weed control, N trap crop	3,300-4,000#
8051-3	CR Lawn Mix	Sp or F	3#	140#	lawn	
8056-8	Sorghum/Sudangrass	ESu	1/4-1#	10-36#	pasture, soil builder, weed control, pest control, N trap crop, erosion control	4,000-5,000#
8061-3	Wapsie Valley Corn	LSp or ESu	1/2#	15#	feedcorn	
8066-8	J Reid Dent Corn	LSp or ESu	1/2#	15#	feedcorn	
8071-3	Timothy	Sp or F	15#	12-15#	hay, pasture	4,400#
8081-3	Pasture Mix	Sp	1#	30#	hay, pasture	
8101-3	Barley	Sp	1-2#	60-90#	hay, weed control, edible, N trap crop	8,800#
8111-3	Japanese Buckwheat	LSp or Su	1-3#	35-134#	weed control, P and Ca trap crop, edible	
8116-8	Tartary Buckwheat	Sp	1-3#	35-134#	soil builder, edible	
8121-3	Japanese Millet	Sp	3/4#	30#	weed control, soil builder	
8126-8	Morton Oats	ESp, LSu, EF	2 1/2#	110#	soil builder, grain, weed control, erosion control	6,000-8,000# spring 2,000-4,000# fall
8141	Buff Oats	ESp, F	2#	80#	soil builder, weed control, edible	
8146-8	Winter Rye	LSu, F	1-5#	60-200#	soil builder, weed control, trap crop, edible, erosion control	3,000-4,000#
8156-8	Spelt	F	2#	80-100#	edible	100-125 bales of straw
8161-3	Spring Wheat	ESp	2-3#	100-120#	soil builder, edible	
8166-8	Winter Wheat	LSu or F	2#	75#	soil builder, weed control, edible	
8176-8	Triticale	LSu or F	2#	100#	hay, soil builder, edible	
8181-3	Forage Radish	F	1/2#	8-10#	trap crop, erosion control, soil builder	
8191-3	Mangel-wurzel	Sp			fodder	
Legumes & Clovers						
8201-4	Alfalfa	Sp or F	1/2#	15-20#	hay, pasture, N-fixer, soil builder	2,000-4,000#
8221-3	Field Pea	ESp	2-5#	100-220#	pasture, hay, N-fixer, soil builder, weed control	5,100#
8231-3	Hairy Vetch	F	1/2-1#	20-40#	N-fixer, soil builder	3,000-4,000#
8251-3	PVO Mix	ESp	5#	212#	soil builder	8,000#
8261-3	Vetch/Rye Mix	F	2#	90#	N-fixer, soil builder, weed control	3,000-4,000#
8276-8	Soybean	LSp or ESu	1 1/2#	60-70#	N-fixer, soil builder, feed, weed control	
8306-9	Crimson Clover	Sp	1/4-1#	9-40#	pasture, hay, N-fixer, soil builder, weed control	2,500-3,000#
8316-9	Mammoth Red Clover	Sp, F or W	1/4-1/2#	7-18#	N-fixer, hay, pasture, soil builder	4,500#
8321-4	Medium Red Clover	Sp, F or W	1/4-1/2#	7-18#	N-fixer, hay, pasture, soil builder	4,000-6,000#
8331-4	Dutch White Clover	Sp or F	1/4-1/2#	6-14#	lawn, N-fixer, soil builder	little
8336-9	Alice White Clover	F or W	1/4#	2-4#	pasture, N-fixer, soil builder	
8341-4	NZ White Clover	Sp or F	1/4-1/2#	6-14#	N-fixer, soil builder	little
8351-4	Yellow Sweet Clover	Sp	1/4-1/2#	9-20#	pasture, N-fixer, soil builder	7,500#

Why use cover crops?

Cover crops feed the soil which in turn nourishes us.

Agriculture is a creative imbalance in nature, a region of excess organization begun and maintained by adding energy to a system. We can add energy in several ways. We can pump oil out of the ground and pour it on the soil as herbicides, pesticides and inorganic chemical fertilizers until the soil becomes lifeless dirt. Even the simplest arithmetic shows this approach to be unsustainable: ever-increasing additions of energy are required to produce ever-decreasing returns. Killing the soil instead of feeding it. Alternatively, we can add sustainable sources of energy, such as soil amendments, organic fertilizers and cover crops which feed the soil instead of killing it. By nourishing the soil, we in turn enhance the health of our crops and ultimately ourselves.

Cover crops take up and store nutrients needed by subsequent crops, suppress weeds, host beneficial insects, improve the structure and arability of the soil, and can even break up clay and hardpan. Most of all, when they are turned into the soil, they provide food and energy for the real farmers, the organisms that live and thrive in a healthy soil feeding and caring for the plants. Use cover crops to create a system which renews itself, absorbing energy from the sun, taking up energy released by dying micro-organisms, and releasing it in the fullness of time to new generations of crops and microorganisms. Build a sustainable agriculture guided by intelligence and care and started from seed.

See the book section 9639, 9769, 9840 for information on cover crops.

Key

[†]Seeding rates vary depending on use and method of seeding.

^{††}Sp=spring; ESp=early spring; LSp=late spring
Su=summer; ESu=early summer; LSu=late summer
EF=early fall; F=fall; W=frost-seeding in winter.

*edible=produces a grain or bean suitable for human consumption
erosion control=roots hold soil well
hay=maintains nutritional quality when dried
lawn=suitable for heavy traffic areas, withstands mowing
N-fixer=green manure legume makes nitrogen available to subsequent crops when tilled into soil
pasture=superior nutrition and yield, withstands grazing
pest control=reduces insect, disease, or nematode pressure
soil builder=green manure, produces high levels of organic matter and improves soil structure
trap crop=scavenges nutrients from soil, making them available to subsequent crops
weed control=physically out-competes or chemically inhibits weeds



Grasses and Grains

Creeping Red Fescue *Festuca rubra* Excellent grass for lawns and orchards, tolerates shade, but not soggy conditions. Good for steep locations and choking out weeds. Plant in fall to avoid weed pressure during establishment. Grows to 3'. Seed at 100-130#/acre, 2-3#/1000 sq ft.

8011: 5#/\$16.00
8012: 25#/\$65.00
8013: 50#/\$120.00

Spring Green Festulolium *OG F. elatior x Lolium multiflorum* An interspecies cross of meadow fescue and a tetraploid Italian ryegrass specifically bred for cold tolerance. Combines the summer growth, winter hardiness and drought resistance of fescue with the high feed value and palatability of ryegrass. High-yielding forage grass will provide several years of excellent grazing and regrowth. Seed alone at 35-45#/acre, 1#/1000 sq ft or 15-20#/acre when mixed with other grasses or legumes. Likes plenty of nitrogen. Allow to grow to 10-12" before grazing and move stock when grass is eaten to 3-4". Makes an excellent hay, producing up to 6700#/acre with three cuttings in Missouri trials. Certified organic.

8016: 5#/\$30.00
8017: 25#/\$130.00
8018: 50#/\$235.00

Orchard Grass *OG Dactylis glomerata* Long-lived perennial, grows in large clumps or tussocks. Introduced in North America in 1760 and now naturalized. Vigorous grass produces more summer regrowth than timothy or brome grass. It can be established in spring, in summer, or by frost-seeding in late winter. Tall leafy plants grow rapidly even in poor soils; tolerates moderately drained soils. Its tendency to form coarse bunches can be overcome by grazing and by sowing with red clover or alfalfa. Grows 1 1/2-5'. Seed at 10#/acre or 4-6# with 8-12# of alfalfa or red clover/acre. Certified organic.

8021: 2#/\$18.00
8022: 10#/\$80.00

Orchard Grass as above, but conventionally grown seed.

8026: 2#/\$15.00
8027: 10#/\$65.00

Ryegrass *Lolium* spp. Ryegrasses tolerate a wide range of conditions and will grow well even in low fertility or acid soils. They have dense fibrous and deep root systems that can withstand temporary flooding and are effective at holding soil and improving tilth. Cross-pollinate easily.

Annual Ryegrass *L. multiflorum* Seeded heavily in early spring or early fall, annual rye will establish quickly in cool wet weather, providing a dense cover and outcompeting weeds. Seeded thinly, it is a good companion crop, suppressing weeds as the slower-germinating crops get established. Uncut, annual ryegrass will grow to 2-4', but should be kept mowed to prevent reseeding. Seed at 14-35#/acre, 1/2-2#/1000 sq ft.

8031: 5#/\$8.00
8032: 25#/\$30.00
8033: 50#/\$50.00

Perennial Ryegrass *L. perenne* Short-lived cool-weather perennial often used in grass mixtures. Germinates quickly and grows rapidly, suppressing weeds and allowing slower-growing companions to establish themselves. Extremely palatable forage grass with good early-spring and fall growth. Can be grazed when spring growth reaches 2-3". Growth slows in dryer warmer weather, but picks up again in the fall. Perennial ryegrass can also be used as a living mulch in Zones 5 and warmer, providing winter storm protection and weed control. Seed at 14-35#/acre, 1/2-2#/1000 sq ft.

8036: 5#/\$15.00
8037: 25#/\$65.00
8038: 50#/\$120.00

Perennial Ryegrass Mara *OG L. p.* New release from Barenbrug, bred in Romania. The most winter-hardy of their ryegrasses. Diploid. Certified organic.

8041: 5#/\$32.50
8042: 25#/\$150.00
8043: 50#/\$275.00

CR Lawn Mix All-purpose grass seed mixture for the Northeast. 50% bluegrass, 30% red fescue, 15% perennial ryegrass, and 5% white clover. Good for a range of conditions, from full sun to partial shade. Bluegrass does well in full sun, red fescue in shade. Perennial ryegrass provides quick germination and good color while the other grasses get established, clover adds nitrogen and interest for the bees. Seed at 140#/acre, 4#/1000 sq ft.

8051: 4#/\$17.50
8052: 17 1/2#/\$65.00
8053: 35#/\$125.00

BMR Sorghum/Sudangrass *OG Sorghum x drummondii*

Vigorous hybrid summer annual is unsurpassed at suppressing weeds. Grows well in warm weather when other grasses slow down. Can grow to 6' if irrigated. Tolerates mowing and can be used for hay and warm-weather forage. Brown mid-rib variety is particularly palatable forage. Tends to lodge when planted thickly in fertile soil. Plant when ground is thoroughly warm. Seed at 10-36#/acre, 1#/1000 sq ft. Use the higher rate of seeding for weed suppression. Certified organic.

8046: 2 1/2#/\$7.50
8047: 10#/\$27.50
8048: 50#/\$125.00

BMR Sorghum/Sudangrass as above, but conventionally grown seed.

8056: 2 1/2#/\$6.50
8057: 10#/\$20.00
8058: 50#/\$75.00

Wapsie Valley Corn *OG Zea mays* 85 day, 1900 degree days to maturity. Heirloom field corn dating back to 1850 is two-color, producing ears of either coppery red or dark yellow kernels. An excellent dent corn for our growing season. In trials at Two Loons Farm it has matured well in both cool and hot seasons. It produced huge 8' stalks and large well-formed ears, yielding as well or better than the hybrid corn in the test. Seed tested at 10.75% protein, making it an excellent silage or grain crop. Yields 3 tons of grain/acre. Certified organic.

8061: 5#/\$17.50
8062: 25#/\$75.00
8063: 50#/\$140.00

J Reid Yellow Dent Corn *OG Z. m. var. indentata*

90 days. First grown by Robert Reid in the mid-1800s, it was an accidental cross between Gordon Hopkins, an old dent variety, and a native American flint corn called Little Yellow. John Simmons in Michigan has worked to improve the strain, hence the 'J' in the name. 9 1/2' stalks with long girthy ears of 14-18 tight rows with crude protein content of 10-11%. Excellent corn meal variety and provides very good silage. Requires a longer growing season than Wapsie Valley. Certified organic. **NEW!**

8066: 5#/\$17.50
8067: 25#/\$75.00
8068: 50#/\$140.00

Timothy *OG Phleum pratense* First noticed in North America in 1711 along the banks of the Piscataqua river in New Hampshire. Named for Timothy Hanson who promoted its use as hay. Best adapted to clay or loam soils with lots of moisture, it produces good yields, resists lodging and is easily cut and cured. Timothy sown with red clover provides excellent forage and strong yields. The seed may be drilled or broadcast. Seed alone or with winter wheat in the fall; in spring, seed with red clover, birdsfoot trefoil or alfalfa. Grows to 3 1/2'. Seed at a rate of 12-15#/acre alone or 9#/acre when mixed, 1/2#/1000 sq ft. Certified organic.

8071: 10#/\$45.00
8072: 25#/\$110.00
8073: 50#/\$200.00

Pasture Mix 30% perennial rye, 35% tall fescue, 15% orchard grass, 10% timothy, 5% dutch white clover, 5% Alice clover. Permanent pasture mix well suited to Maine and other areas having our variable weather and temperatures. Provides season-long regrowth and good grazing. A clover inoculant has been added to the mix. Plant at 30#/acre, 1#/1000 sq ft.

8081: 5#/\$23.50
8082: 10#/\$43.00
8083: 50#/\$190.00

Robust Barley OG *Hordeum vulgare* A six-row malting barley valuable as feed, excellent as a spring cover crop. Fast growing and abundant, produces the most biomass of any grain and outcompetes weeds very effectively. Thrives on well-drained fertile soil but tolerates drought and alkaline or heavy soils. Undersow with clover or a legume/grass mix for soil building. As a trap crop, barley takes up nitrogen. When soil begins to warm, seed at 60-90#/acre, 3#/1000 sq ft. Certified organic.

8101: 5#/\$6.00

8102: 24#/\$18.00

8103: 48#/\$32.00

Japanese Buckwheat OG *Fagopyrum esculentum* Large-seeded type. Excellent smother crop. Short maturity allows 2-3 crops per season. Responds well to fertility, holding it for subsequent crops. Makes phosphorus available for next crop and loosens clay soils. Easy to turn into the soil; cut and incorporate when plant is newly in flower. Will grow on almost any soil but prefers light well-drained soils; tolerates more soil acidity than any other grain crop. Bees like its white flowers and beekeepers prize buckwheat honey. Killed by frost, won't germinate until soil is warm in spring. Seed at 35-134#/acre, 2-3#/1000 sq ft. Certified organic.

8111: 5#/\$10.00

8112: 25#/\$37.50

8113: 50#/\$65.00

Tartary Buckwheat ECO *F. tataricum* Traditional Maine buckwheat grown in Springfield, ME, by Chris Blanchard and Liz Lauer. Not your usual buckwheat, the flour is used for the French-Canadian crêpes called ployes. A cool-weather crop with very small yellow flowers, it is well adapted to our northern climes and can be grown as a cover crop or grain crop. Not as effective at outcompeting weeds as Japanese buckwheat. Grown sustainably without pesticides or chemicals.

8116: 5#/\$8.00

8117: 25#/\$32.00

8118: 50#/\$55.00

Japanese Millet *Echinochloa frumentacea* Very good smother crop. Extensive root system. Mature plants are 6' tall and lush, and require a tractor to till in, though short plants can be incorporated with a tiller. Tender annual tolerates low soil pH but requires adequate nitrogen and potassium. Try over-seeding millet into a spring crop to take advantage of a summer fallow period before fall planting. And remember to plant millet for the birds. Seed when soil is warm at 30#/acre, 3/4#/1000 sq ft.

8121: 2 1/2#/\$6.00

8122: 10#/\$17.00

8123: 50#/\$65.00

Morton Oats OG *Avena sativa* A tall late-ripening variety with good yield and high resistance to lodging. Approximately 41" tall, it produces good straw and does well in central Maine. Plant as winter cover in early September, as grain in early spring, or as a nurse crop when seeding clover. After early-August garlic harvest, we plant oats in the former garlic beds where they stay green into November. Oats will winterkill, holding soil with a mat of vegetation and providing a ready-mulched bed in spring. Oatstraw tea nourishes the nervous system. Seed at 110#/acre, 3-4#/1000 sq ft. Certified organic.

8126: 5#/\$6.00

8127: 25#/\$20.00

8128: 50#/\$35.00

Buff Oats OG *A. nuda* Higher food and protein value than regular oats, no hull. Early-maturing naked oat sheds its husk when harvested and threshed. For cooking, soak in water; what little groat remains will float to the top and can be swept away. 37" tall, resistant to crown rust. Plant in early spring for an oat crop, any time up to mid-fall as a cover crop. Plant at 80#/acre, 2#/1000 sq ft. Certified organic.

8141: 2#/\$3.00

8142: 10#/\$10.00

8143: 50#/\$45.00

Winter Rye OG *Secale cereale* The most popular winter cover in the Northeast. Best planted in early September to give good growth before winter dormancy, but may be planted as late as mid-October. Turn under early in spring before it gets out of hand. Undecomposed residue may inhibit germination and growth of subsequent crops, so incorporate into soil at least 3 weeks before planting. Seed at 60-200#/acre, 3-4#/1000 sq ft. Certified organic.

8151: 5#/\$6.00

8152: 25#/\$20.00

8153: 50#/\$35.00

Spelt OG *Triticum spelta* Old species of wheat which has been in cultivation for 5-6000 years. Some people with wheat allergies are able to eat spelt. Has a higher protein content than wheat with a feed value similar to oats. The hull does not come off during threshing, lowering the weight per bushel compared to wheat. The hull protects the seed from soil-borne diseases and pathogens. In climates with extended cold springs, spelt will out-perform spring-planted oats or barley. Plant in fall at 80-100#/acre. Certified organic.

8156: 5#/\$6.50

8157: 25#/\$22.50

8158: 50#/\$40.00

Spring Wheat OG var. Glenn *T. aestivum* Hard red spring wheat rates high in baking qualities. Medium height, around 34", with good test weight and lodging and scab resistance, 15.2% protein, good straw. Released by the North Dakota Ag Experiment Station in 2005. Plant in early spring 100-120#/acre, 2-3#/1000 sq ft. Certified organic.

8161: 5#/\$6.00

8162: 10#/\$11.00

8163: 50#/\$34.00

Winter Wheat OG var. Arapahoe *T. a.* Hard red winter wheat with good milling and baking characteristics. For best overwintering, plant into stubble mid-August to mid-September; the stubble will help hold the snow cover. Plant at 75#/acre, 2#/1000 sq ft. Certified organic.

8166: 5#/\$7.00

8167: 10#/\$13.00

8168: 50#/\$45.00

Triticale OG *Triticale x (Triticosecale)* Produces more biomass and larger root mass than other overwintering grains. Fall-planted annual hybrid of wheat and rye is self-pollinating and the seed reproduces true to type. Best grown for grain and straw. Fall-seeded triticale can provide some fall grazing and early spring grazing until early to late May without harm to grain production. Plant in early fall, same as winter wheat, being sure to leave surface residue to catch and hold snow for winter cover. Harvest is about one week later than wheat, yields are generally greater than wheat or rye. Plant at 100#/acre, 2#/1000 sq ft. Certified organic.

8176: 5#/\$6.50

8177: 25#/\$22.50

8178: 50#/\$40.00

Forage Radish *Raphanus sativus* var. *niger* (Daikon) A fall and winter cover crop similar to oilseed radish but with a much longer root. The thick upper part of the root is 12-20" long with a thinner taproot that can grow to be as much as 6' long. Penetrates and breaks up compacted soils and hardpan. Planted in stands of 5-8 plants per square foot the large leaf rosette provides a dense canopy of green and near complete weed suppression. Winterkill occurs when temperatures are in the low 20s for several nights running. Plants should be left in the ground all winter and into the spring. Roots will decompose leaving large holes in the soil which fill with rainwater eliminating runoff and trapping sediment. Decomposed root and leaf matter release nutrients stored over the winter and increase microbial activity in the soil contributing to increased yields in crops that follow. Plant in early September for maximum benefit. Can be planted as late as October in the mid-Atlantic states. Drill at 8-10#/acre or broadcast at 12-14# followed by a rolling or disking to ensure the seed makes contact with the soil. Expect germination in 3 days in warm moist soil. **NEW!**

8181: 2#/\$13.00

8182: 10#/\$55.00

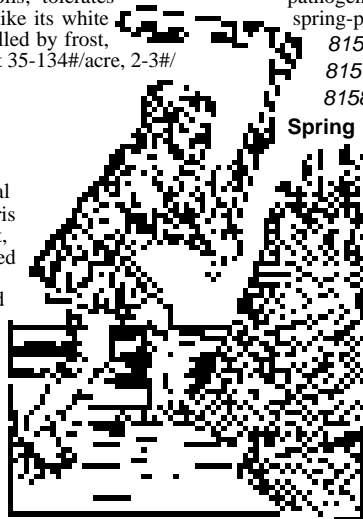
8183: 50#/\$250.00

Mangel-wurzel var. Red Mammoth *Beta vulgaris* Customer requests inspired us to list this old-fashioned giant beet. Developed in the 1700s as animal fodder, both the root and leaves provide ample nutrition. Can be fall-planted in mild climates. For our climate, plant in early spring in rows 1' apart and thin in a few weeks to 8". William Cobbett recommended mangel-wurzels highly as a feed. He suggested stripping the lower leaves throughout the fall to feed to pigs and promote root growth. Store roots in a well-covered heap to protect from frost. The root is quite sweet and succulent and can be made into a strong beer.

8191: 1/2#/\$10.00

8192: 2#/\$35.00

For an amusing site about mangel-wurzel (or mangold) hurling in Britain, check out: <http://www.mangoldhurling.co.uk/index.html>



Legumes and Clovers

Kingfisher OR24 Alfalfa OG *Medicago sativa* New release, very good yields, fast regrowth, excellent winter hardiness, medium fall dormancy. Good leaf to stem ratio. Good disease and pest resistance. Contains 22% protein. Alfalfa in combination with any other grass is excellent forage, good for a wide variety of soils. Also suitable for garden use if you're planning to leave an area out of production for a season or two. Can be cut several times over the summer to make compost and to help eliminate perennial weeds. Herbalists harvest alfalfa flowers and leaves to make a nutritious tea. Seed at 15-20#/acre, 5-10# in mixes, 1/2#/1000 sq ft. Certified organic.

8201: 1/2#/\$6.00
8202: 2#/\$22.00
8203: 10#/\$80.00
8204: 50#/\$370.00

Field Pea OG *Pisum sativum* var. *arvense* Cold-tolerant weed-smothering workhorse soil builder. Fixes nitrogen at 170-190#/acre and produces lots of excellent hay or pasture for livestock. Likes cool moist growing conditions and withstands heavy frost. Will grow in most soil types but prefers well-drained loams. Sow alone or with a nurse crop such as oats to help it stand. Seed at 100-220#/acre, 4#/1000 sq ft. Certified organic.

8221: 5#/\$7.50
8222: 25#/\$30.00
8223: 50#/\$50.00

Hairy Vetch OG *Vicia villosa* subsp. *villosa* Excellent nitrogen fixation, 100+ #/acre. Plant with rye; the rye supports vetch vines in the spring and holds the soil over the winter better than the taprooted vetch. (See #8261 Vetch/Rye Mix.) Tolerates acidic soils and low fertility, but not poor drainage. A vigorous grower, generating copious amounts of organic matter. Its vigor can create problems: farmers using both flail mowers and sickle-bar cutters reported clogging and tangling when they attempted to mow summer-sown vetch. Maine ag experts recommend later planting for better control. Use a flail mower in fall and plow under in spring before it becomes unmanageable. Seed at 20-40#/acre, 1#/1000 sq ft. Certified organic.

8231: 2#/\$10.00
8232: 10#/\$40.00
8233: 50#/\$175.00

PVO Soil-Building Seed Mix OG Maine trials have shown peas-oats-hairy vetch to be a superior soil-building seed mix. In tests, this mix has created as much as 8000# biomass/acre at maturity. The oats come up first and are pulled down by peas, which are eventually pulled down by the smothering vetch. 4" mat of vegetation should be disked or mowed and incorporated in autumn. By weight, our mix is 71% peas, 15% oats and 14% vetch. Seed at 212#/acre, 5#/1000 sq ft. All three components are certified organic.

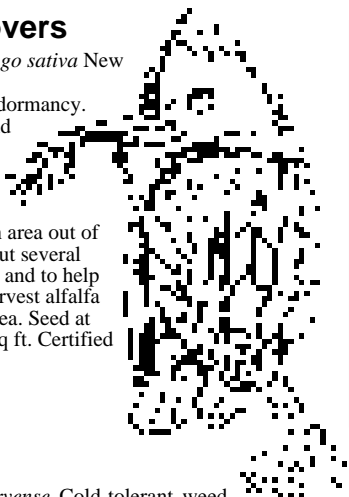
8251: 2 1/2#/\$6.00
8252: 10#/\$15.00
8253: 50#/\$60.00

Hairy Vetch/Winter Rye Mix OG Superb cover mix for fall planting. Produces abundant green manure, adds nitrogen to the soil and suppresses weed growth. The rye acts as a nurse crop for the vetch, protecting it from frost damage and providing support for the vines, making mowing much easier. Excellent choice for a field that will not be planted the following spring. Mow after flowering to kill the plants, then incorporate by tilling, allow 3-4 weeks for the rye to decompose before replanting. Mix is 78% rye and 22% vetch by weight. Seed at 90#/acre, 2#/1000 sq ft. Both components certified organic.

8261: 2#/\$5.00
8262: 12#/\$18.00
8263: 45#/\$60.00

Surge Soybeans OG *Glycine max* Early Group I soybean. Soybeans are excellent fixers of nitrogen in the soil (130-290#/acre), produce high yields when grown after small grains or corn, and do well in warm weather. Superb tofu soybean can also be used for edamame. Tall indeterminate plant, yellow bean and hilum, 36' tall, provides good cover to suppress weed growth. Requires good amounts of phosphorus and potassium. Overseed with winter cereals when approximately 50% of the leaves have turned yellow, 25-40 days prior to harvest, to preserve nitrogen gain. Crops planted in mid-June are ready for harvest in mid-September. Plant thickly, 60-70#/acre, 7-9 seeds/sq ft. Certified organic.

8276: 5#/\$10.00
8277: 25#/\$40.00
8278: 50#/\$70.00



Crimson Clover *Trifolium incarnatum* Rapid growth in cool weather makes this annual an excellent spring or fall green manure. Good choice for an orchard cover crop because it is shade tolerant, and its fast germination and thick growth provide good weed control. Germinates quickly and makes a thick dark green carpet. Stunning crimson spikes on 18" plants with bright green leaves make good cutflowers. More disease-resistant than other annual clovers. Will grow on most well-drained soils. Easy to mow. Survived a 28" frost, dies at hard frost. Seed at 9-40#/acre, 1/4-2#/1000 sq ft.

8306: 1/2#/\$3.50
8307: 2#/\$7.50
8308: 10#/\$25.00
8309: 50#/\$100.00

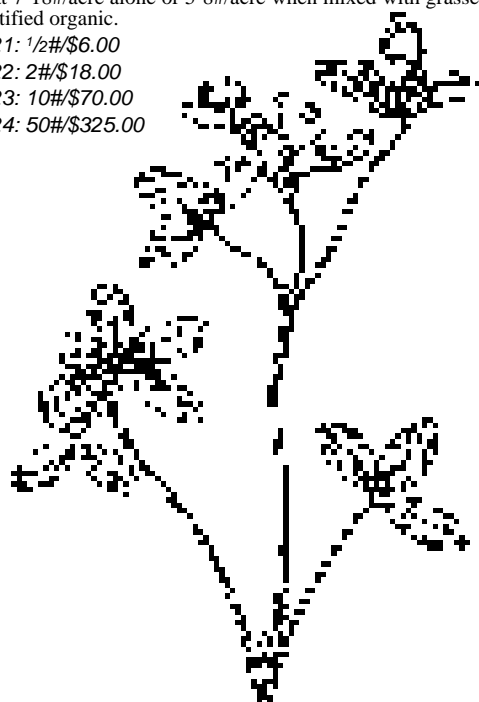
Mammoth Red Clover OG *T. pratense*

Short-lived perennial clover, best treated as a biennial, mown or grazed the first year, turned under the second year for green manure. Deep taproot raises nutrients from the subsoil. Tolerates shade and can be undersown or overseeded into row crops and grains once they begin to establish themselves. Best planted in early spring with a nurse crop of oats. Excellent hay crop planted alone or with grasses. A mix of timothy and red clover produces more hay per acre than either planted alone. Cut once in the summer and plow under or allow regrowth for 2nd year. Seed at 7-18#/acre alone or 5-8#/acre when mixed with grasses, 1/2#/1000 sq ft. Red clover blossoms, fresh or dried, make one of our favorite teas, one which cleanses the blood gently and is safe for long-term use. Certified organic.

8316: 1/2#/\$6.00
8317: 2#/\$14.00
8318: 10#/\$60.00
8319: 50#/\$250.00

Medium Red Clover OG *T. p.* Short-lived perennial clover, persists for 2-3 years with the best hay coming in the second year. Flowers earlier than Mammoth Red and can be cut or grazed 2-3 times during the growing season with the last cut coming about 45 days before the frost. Adds as much as 100#/acre of nitrogen in a season. Can be planted with timothy or ryegrass for improved forage or hay. Tolerates shade and can be undersown or overseeded into row crops and grains once they begin to establish themselves. Seed at 7-18#/acre alone or 5-8#/acre when mixed with grasses, 1/2#/1000 sq ft. Certified organic.

8321: 1/2#/\$6.00
8322: 2#/\$18.00
8323: 10#/\$70.00
8324: 50#/\$325.00



COVER CROPS

The cost of seed and grain is subject to fluctuation beyond our anticipation. We will make every effort to honor the prices published in the catalog, but as we have to purchase additional inventory we may find it necessary to adjust the price accordingly. The current prices will be posted on our website, www.fedcoseeds.com. Or call 207-873-7333, if you have questions.



Dutch White Clover *T. repens* Ideal perennial for use in garden paths where it suppresses weeds, keeps soil friable and stores nitrogen in its roots for next year's crops. White clovers are not heavy biomass producers, an advantage for small gardeners who can keep a "living mulch" in their garden paths without requiring anything heavier than a hand scythe or lawn mower to maintain control. At 6", lower-growing than New Zealand Clover and less tolerant of heat and sun. We like clover in lawns; it looks lush and feeds nitrogen to the grasses. Clover was pronounced a lawn "weed" when chemical companies started encouraging the use of broadleaf herbicides. Seed at 6-14#/acre, 1/4#/1000 sq ft.

8331: 1/2#/\$6.00

8332: 2#/\$17.00

8333: 10#/\$75.00

8334: 50#/\$335.00

Alice White Clover *T. r.* Excellent for grazing pastures because of its large size and high nutritive value. Combines the perennial persistence of small-leaved varieties with larger leaf and 9-12" plant size. It will fix as much as 150#/acre of nitrogen. Grasses grown with Alice clover show increased growth and vigor. Frost seed at 4#/acre, or 2-3# when mixed with grasses, 1/4#/1000 sq ft. Seed is clay-coated and already inoculated. Coating and inoculant are allowed for organic certification.

8336: 1/2#/\$8.50

8337: 2#/\$26.50

8338: 10#/\$120.00

8339: 25#/\$260.00

New Zealand White Clover *T. r.* Our most popular clover. Hardy, long-lived and self-propagating perennial with a fibrous root system which spreads easily once established. Very useful as green manure or erosion control in steep or trafficked areas. Tolerates shade, mowing and excessive moisture. Good bee forage. Grows best in clay to loam soils. More vigorous and, at 8", slightly taller than the Dutch variety. Seed at 6-14#/acre, 1/4#/1000 sq ft.

8341: 1/2#/\$6.00

8342: 2#/\$17.00

8343: 10#/\$75.00

8344: 50#/\$340.00

Yellow Sweet Clover

OG *Melilotus officinalis*

Thick succulent plants make an excellent green manure. Long thick taproots are very effective at breaking up subsoils and improving soil aeration. They bring up phosphorus and potassium in the process. Bees love sweet clover. Plant in spring with a nurse crop of oats for weed suppression. Most of its growth will occur the following year. Biennial: chop the 6-7' stalks at the end of the second year and turn under. Seed at 9-20#/acre, 1#/1000 sq ft. Certified organic.

8351: 1/2#/\$6.00

8352: 2#/\$12.00

8353: 10#/\$50.00

8354: 50#/\$200.00

Legume Inoculation: Legumes such as beans, peas, clover and alfalfa are able to access ("fix") nitrogen because their roots shelter symbiotic bacteria of the genus *Rhizobium*. The plant roots feed the bacteria while the bacteria take molecular nitrogen from the air and convert it to a form that the plant can use.

Different legumes require different species of rhizobia to form a successful relationship. Unless otherwise noted, our legume seed is sold "raw": it has not been inoculated with the appropriate bacteria in a process called "rhizocoating." Because the seed maintains good germination longer than the bacteria remain viable, we prefer to sell fresh inoculant each year and allow you to treat the seed at the time of planting.

Use fresh inoculant each time you plant a legume even if you have planted inoculated seed in the same spot before. When you are ready to put the seed in the ground, moisten it with water, pour the inoculant over it and mix. Protect from direct sunlight and plant before the seed dries out, or remoisten and remix.

Use weight in parentheses (#) to calculate shipping charge.

Inoculants and Jumpstarts

None of our inoculants contains genetically modified materials.

Garden Combo Legume Inoculant For peas, beans, limas, favas, sweet peas, cowpeas, lentils and peanuts. **OMRI**

8401: treats 8# (0#)/\$4.00

8402: treats 50# (0#)/\$4.50

Alfalfa/Clover Inoculant For alfalfa and all the clovers we list. **OMRI**

8404: treats 50# (0#)/\$4.50

Field Pea and Vetch Inoculant Use for our soil-building and vetch/rye mixes. Also treats garden peas, lentils, favas. **OMRI**

8405: treats 100# (0#)/\$4.50

Soybean Inoculant What else? For soybeans. **OMRI**

8407: treats 50# (0#)/\$4.50

Accolade Recommended for small-grain crops such as wheat, rye, oats, and barley. Nitrogen-fixing bacteria of the genus *Azospirillum* colonize roots and increase the density and length of root hairs enhancing the plant's uptake of water and minerals. Benefits include added nitrogen—reducing the need for fertilizer, increased vigor, larger root mass, and increased yields at harvest. **AYC**

8411: treats 100# (0#)/\$10.00

T-22 Planter Box Biological Fungicide Beneficial fungus *Trichoderma harzianum* controls seed rot and damping off by colonizing plant roots and protecting them against fungus-borne root diseases including pythium, fusarium and rhizoctonia. Now in a higher concentration; expensive, but effective. Use as an inoculant on potato seed pieces and on cabbage, bean, cucumber, tomato, corn and other crop seeds. Application rates range from 1-3 oz/100# for potatoes to 4-10 oz/100# for seed. 32 oz/acre as a furrow spray or transplant drench. **OMRI**

8420: 1#/\$50.00

RootShield H & G *T. h.* in a formulation for home garden use. As a seed drench mix 1-3 Tbsp/gal of water to cover 25 row feet. Use the same dilution for transplants and established plants, but apply 1/2-1 cup per plant. In NY tests when two *Trichoderma* drenches were applied to tomato transplants, the plants showed increased resistance to early blight. **OMRI**

8421: 1/4# (0#)/\$14.50

PlantShield HC *T. h.* for larger applications. Mix 3-5 oz/100 gal of water as a soil or seedtray drench. For cuttings and bare-root plants, dip in a solution of 1/2-2 1/2#/5 gal of water. Drop-shipped from manufacturer, please provide requested delivery date and be sure we have an address. **OMRI**

8422: 3# (0#)/\$175.00

Bio Organics Endomycorrhizal Inoculant Mycorrhizal fungi form a beneficial association with plant roots and, in return for sugars manufactured during photosynthesis, use their large surface area to bring in water and plant nutrients, especially phosphorus which is often not available to the plant roots alone. One of the two most common forms of mycorrhizae (ecto- and endo-), the endomycorrhizae contained here will improve root size and plant vigor, increase yields and help provide some protection from soil-borne diseases. Use 1/2-1 tps with transplants, work 1 tsp into each row foot for garden plants such as corn or beans, work 1 tsp per seed for large-seeded plants such as melons or squash, mix in 1 lb for each cubic yard of potting mix or sprinkle on lawns and flowerbeds. Not for blueberries, hardwoods, pines and the birch family, which require ectomycorrhizal fungi. **OMRI**

8431: 1 1/2# (2#)/\$45.00

8432: 3#/\$85.00

Myco Seed Treatment A blend of microorganisms and mycorrhizal fungi to provide protection and growth enhancement for potatoes, corn, legumes, grasses and vegetables. 1-2 oz treats 100# of potato seed pieces, 4-8 oz/100# of other seed. **OMRI**

8435: 1#/\$42.50

MycoApply® Maxx This granular formulation contains 4 species of endomycorrhizal fungus, 7 species of ectomycorrhizal fungus, 2 species of trichoderma as well as beneficial bacteria. Add to seed beds when sowing and work into the soil around your trees and shrubs to boost root growth, nutrient uptake and the health of your plants and soils. When seeding use 1 tsp/ft, in beds mix in 2 lbs/100 sq. ft. Use 2-3 tbs per tree when transplanting. 1# and 20# bags. **OMRI NEW!**

8441: 1#/\$16.00

8442: 20#/\$200.00

Agri-gel A hydrogel formulation which absorbs and holds water. The swollen crystals adhere to plant roots, reducing transplant shock. Safe, non-toxic, easy to use. Useful for garden seedlings as well as woody plants. Highly recommended for brambles and conifers. Half-ounce packet mixed with one to three gallons of water will treat up to 100 cane plants, 50 conifers, 50 trees and shrubs, or 150-200 seedlings. **Not Allowed**

8446: 1/2 oz (0#)/\$2.50

Rock Powders and Soil Amendments

Thriving sustainable agriculture is built on the ground of a healthy soil. In fact, organic certification requires a soil management plan. Do a soil test to determine your soil's needs before embarking on a program of soil improvement. Check with your local Cooperative Extension for testing services in your area.

Rock powders and soil amendments used with a program of crop rotation, composting and cover cropping will enhance fertility, improve soil tilth, promote disease resistance, support beneficial soil microorganisms, and even help restore balance to the garden and the world around it. Used with organic fertilizers, rock powders and soil amendments will help address immediate fertility needs as well as long-term requirements of sustainable growth. Rock powders can be applied directly to the soil but their nutrients will be more readily available to plants if first incorporated into compost.

Aragonite A source of calcium that is very low in magnesium. If you have been using dolomitic limestone over the years to sweeten

your soil, magnesium may be tying up other nutrients. Aragonite has 94% of the sweetening effect of limestone. A few years with aragonite will allow the soil to come back into balance. A good source of calcium for a feed supplement. **Nat'l List**

- 8601: 5#/\$5.00
- 8602: 50#/\$25.00
- 8603: 10+ (50#)/\$24.00 each
- 8604: pallet (2000#)/\$850.00

Azomite (0-0-2.5, 5% Ca) Named for its **A-to-Z of Minerals** including Trace Elements; contains over 67 minerals beneficial to plants and animals. Broadcast at 300-600# an acre, approximately 1-2#/100 sq ft. Use in potting soil and compost. An excellent source of trace minerals when added to animal feed and fodder. Although we still can't get pelletized Azomite, we have two grades:

Coarse A mix of particle sizes from 1/8" to powder. Less dusty and more easily spread with a broadcast spreader. For slow-release longer-lasting applications. **OMRI**

- 8611: 5#/\$5.00
- 8612: 44#/\$25.00
- 8613: 10+ (44#)/\$24.00 each
- 8614: pallet (2200#)/\$1150.00

Micronized Very fine powder passed through a 200-mesh screen. Provides a quick release of nutrients and is also recommended as a foliar feed; allow the heavier portion to settle before adding to the sprayer. As a liquid fertilizer add 1 tsp/gal. **OMRI**

- 8616: 5#/\$5.00
- 8617: 44#/\$27.00
- 8618: 10+ (44#)/\$26.00 each
- 8619: pallet (2200#)/\$1250.00

Granite Meal (0-0-5) A potash which provides a good source of potassium, needed by plants for sugar and starch production. Granite meal can be added to the soil in large amounts without altering the pH. Greatly enhances soil structure and promotes healthier plants. Application rates are 50-100#/1000 sq ft, or 2-4000#/acre. **Nat'l List**

- 8621: 5#/\$5.00
- 8622: 50#/\$12.00
- 8623: 10+ (50#)/\$11.00 each
- 8624: pallet (2000#)/\$400.00

Greensand (0-1-7, 3% Mg, 20% Fe) "Greensand has been successfully used for soilbuilding for more than 100 years," according to Rodale's *Encyclopedia of Organic Gardening*. An organic source of potassium from 70- to 80-million-year-old marine deposits. Contains marine potash plus silica, iron oxide, magnesia, lime, phosphoric acid and as many as 30 other trace minerals. Loosens clay soils and improves sandy soils. Provides a slow release of potassium. Apply at 2-5#/100 sq ft. or 500-2000#/acre depending on soil test. **OMRI**

- 8626: 5#/\$5.00
- 8627: 50#/\$20.00
- 8628: 10+ (50#)/\$19.00 each
- 8629: pallet (2000#)/\$700.00

Gypsum, pelletized (Calcium Sulfate $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$, 23% Ca, 17% S) Gypsum is a good source of calcium when the pH is already at a desired level. The sulfur in gypsum reacts with water to form a weak sulfuric acid solution which frees the calcium in the soil. Breaks down clay soils and improves permeability. Prilled with 2% sodium salt lignin, an NOP-allowed synthetic, as a binding agent. **AYC**

- 8636: 5#/\$5.00
- 8637: 50#/\$18.00
- 8638: 10+ (50#)/\$17.50 each
- 8639: pallet (2000#)/\$600.00

Hi-Cal Lime (95% CaCO_3) The most common and most frequently used soil conditioner, lime is used to raise the pH of acid soils, loosen clays and help bind particles in sandy soils. Blossom-end rot is a sign of calcium deficiency. Calcium also promotes stem and root growth. Hi-Cal lime has less than 5% magnesium oxide; recommended for soils with excess magnesium. Prilled with 2% sodium salt lignin. **AYC**

- 8641: 5#/\$5.00
- 8642: 50#/\$10.00
- 8643: 10+ (50#)/\$9.00 each
- 8644: pallet (2000#)/\$350.00

Dolomitic Limestone (8.5% MgCO_3 , 87% CaCO_3) 100 lbs has the liming capacity of 116 lbs of pure limestone. Use to sweeten soil and provide calcium where excess magnesium is not a problem. The amount of limestone needed to raise pH is dependent on the type of soil and the initial pH; check with your local extension agent or a good gardening resource book for application rates. **Nat'l List**

- 8646: 5#/\$3.00
- 8647: 50#/\$9.00
- 8648: 10+ (50#)/\$8.00 each
- 8649: pallet (2000#)/\$250.00

Menefee Humates Hundreds of millions of years ago the lush rainforests and tropical swamplands of Precambrian New Mexico produced plant matter that, through millions of years of composting and burial under layers of water and sand, metamorphosed into the coal-like material of the Menefee formation. Tectonic and volcanic activity brought it back to the surface and exposed the layer for mining. Humates contain 65% humic acid in a carbon matrix to chelate minerals and nutrients making them more easily available to soil microorganisms and plants. Extensive tests at agricultural stations have shown marked crop improvement when Menefee Humates were applied. Use 6-10#/1000 sq ft or 250-400#/acre/year in several applications and mix into the soil surface for best results. **OMRI**

- 8651: 5#/\$5.00
- 8652: 50#/\$20.00
- 8653: 10+ (50#)/\$19.00 each
- 8654: pallet (2000#)/\$700.00

Phosphate, Bone Char (0-16-0, 32% P_2O_5 ; 16% available) Burned bone meal provides large amounts of readily available phosphorus. May be applied without restrictions to organically certified fields. We offer bone char instead of bone meal as it is a better value and more available to us. **OMRI NEW!**

- 8631: 5#/\$6.00
- 8632: 50#/\$20.00
- 8633: 10+ (50#)/\$19.00 each
- 8634: pallet (2000#)/\$700.00

Phosphate, Calphos Colloidal (0-2-0, 18% P; 2% readily available, 21% Ca, trace minerals) This soft-rock phosphate is an excellent choice for calcium-deficient soils as plants will take up the calcium first, freeing the phosphorus to be taken up in turn. Don't apply lime at the same time lest plants take calcium from the lime leaving the phosphate not yet available. Colloidal phosphate contains fine clays which help sandy soils retain water and nutrients. Use combined with green manures for soil rebuilding, or by itself to give plants immediate doses of nutrients. **OMRI**

- 8666: 5#/\$5.00
- 8667: 50#/\$17.00
- 8668: 10+ (50#)/\$16.00 each
- 8669: pallet (2000#)/\$600.00

More phosphate next page.

Savings on multiple bags of soil amendments.

Soil amendments cost less when you buy 10 or more bags and are even cheaper by the pallet (2000#). The price is FOB Clinton. See page 4 for shipping rates.

Phosphate, Tennessee Brown (0-3-0, 27% P₂O₅) Neither a colloidal nor a rock phosphate, but the consistency of rich soil. Comes from the washing piles left behind when high-grade ore was extracted to produce superphosphate in the early 20th century. When tested in several midwestern states' labs, concentrations of available phosphate were regularly over 6%. Lowest concentration of heavy metals of any phosphate source. Recommended by Phil Callahan and Mark Fulford. Apply at 300-500#/acre at any time of the year. **OMRI**

8671: 5#/\$6.00
8672: 50#/\$20.00
8673: 10+ (50#)/\$19.00 each
8674: pallet (2000#)/\$650.00

Planter's II Trace Minerals Fertilizer (0-0-0.09, 5% Ca, 5% S) Mined in Colorado from the remains of the great inland sea. Crushed and then pelleted with the addition of brewer's yeast, Planters II is 14% silicon, 5% calcium and 5% sulfur along with 28 other trace elements necessary to plant health. Hay grown in fields treated with Planters II consistently shows increased yields and higher protein levels. Apply at a rate of 100#/acre in rows or 250#/acre broadcast to improve germination and stimulate stronger root formation and overall plant vigor. **OMRI**

8656: 5#/\$6.00
8657: 50#/\$28.00
8658: 10+ (50#)/\$27.00 each
8659: pallet (2000#)/\$1050.00

Sea-90 (sea salt with trace minerals) Sea water contains more life than an equal volume of the most biologically active soil. Extracted from the richest marine ecosystem on the Pacific coast, Sea-90 contains 90 minerals and trace elements in the same ratios as blood and amniotic fluid—nature's carefully balanced blend. Apply in a 1- to 3-year program at 250-1100#/acre, 1-3#/100 sq ft, broadcast or sprayed at the onset of growth. Benefits can be sustained for at least 10 years with good management. Completely soluble, an excellent foliar spray at 1/2 oz/gal. **OMRI**

8696: 5#/\$6.00
8697: 50#/\$32.00
8698: 10+ (50#)/\$31.00 each
8699: 2000#/\$1200.00

Solubor DF (17.5% B) Boron is essential for all stages of tree growth and fruit set. May be used in certified organic settings only to correct a documented boron deficiency. Mixes easily in any spray solution. **OMRI NEW!**

8675: 30#/\$70.00

K-Mag Sulfate of Potash Magnesium (0-0-22, 11% Mg, 17% S) Langbeinite is a marine deposit of potassium sulfate and magnesium sulfate in soluble form. A good source of immediate potassium for depleted soil and of magnesium where calcium is abundant. Alliums like its sulfur and potatoes like its quick boost of potassium. Apply 1/2-1#/100 sq ft, 200-500#/acre depending on the results of your soil test. **Nat'l List**

8676: 5#/\$6.25
8677: 50#/\$42.50
8678: 10+ (50#)/\$41.50 each
8679: pallet (2000#)/\$1500.00

Sulfate of Potash (0-0-50, K₂SO₄ 18% sulfur) For a quick burst of potassium and sulfur. Apply at 1 lb/100 sq ft or 200-500 lbs/acre. **OMRI**

8685: 50#/\$60.00

Sulfur Used to lower soil pH, that is, make it more acidic. Lowering the pH of gravel paths will help control weed growth. Small pastilles like yellow button candy, not fine enough to be spread as a fungicide. Apply in small amounts 1-2#/1000 sq ft, 200-400#/acre. (See #8811-8816 for fungicidal sulfur.) **OMRI**

8681: 5#/\$7.25
8682: 50#/\$60.00
8683: 10+ (50#)/\$59.00 each
8684: pallet (2000#)/\$2000.00

Fedco Planting Mixes

All ingredients in the mixes are on the National List and on the MOFGA list of allowed products.

Fruit Tree Planting Mix Recommended for fruit trees. Our own well-balanced blend of soil amendments in a humus-rich base of worm castings. Also contains rock phosphate, alfalfa meal, azomite, sul-po-mag and Epsom salts. Add 3#/tree hole when planting. **MOFGA**

8686: 3#/\$8.00
8687: 30#/\$60.00



Fall Fruit Tree Mix To prepare your land in fall or winter for spring fruit-tree planting, use this mix according to directions in the sidebar. By spring planting you'll have a rich spot ready to plant. For existing trees spread one bag on the ground from the base of the tree out to the drip line. For larger and ancient trees use 3-4 bags. **MOFGA**

8688: 32#/\$20.00

Bulb Planting Mix (3.0-2.6-2.2) Developed by Fedco Bulbs for slow release of fertilizers. Use 1-2 tsp per bulb mixed into the loosened soil below planting depth. Use 5#/40-50 sq ft as a topdressing after planting in the fall and again each spring. Contains soybean meal, rock phosphate, sul-po-mag, greensand and kelp meal. No animal products means it will not attract dogs or skunks. **MOFGA**

8691: 5#/\$6.00
8692: 20#/\$17.00
8693: 50#/\$35.00

To prepare for spring fruit-tree planting

Without digging a hole, spread one bag on an area 4-6' in diameter. Cover with 1/8 yd (about 3 1/2 cu ft or 90 qts) of compost and cover that with 1/8-1/4 yd of chipped branches and brush. As the chipped brush breaks down over the winter it promotes mycorrhizal fungi which improve root growth and function. In the spring, pull back mulch and dig your hole, incorporating the supplements and compost as you back-fill. One bag of **Fall Fruit Tree Mix** contains 5 lbs. aragonite, 5 lbs. colloidal phosphate, 5 lbs. azomite, 5 lbs. granite meal, 3 lbs. Menafee humates, 3 lbs. greensand, 2 lbs. bone char, 2 lbs. kelp meal, 2 lbs. blood meal.

Fertilizers

Fertilizers provide nitrogen and other nutrients in a form that is available to plants. Foliar sprays get nutrients directly to the leaves and are important sources of amino acids which increase resistance to disease and to insect infestation. Our products provide both an immediate boost and, unlike nonorganic chemical fertilizers, additional long-term fertility, feeding both the plants and the organisms that maintain soil health.

Fertilizers should be used as a supplement to, not a replacement for, the nutrients provided by a healthy soil. Sustainability requires that one develop a long-term plan of cover cropping, green manuring and composting.

Alfalfa Meal (2.6-0-2.3 avg.) Excellent alternative to blood meal as a nitrogen source. Gives plants a noticeable quick boost and feeds soil organisms. Apply at 2-3#/100 sq ft or 800#/acre. **Nat'l List**

8701: 5#/\$6.00
8702: 50#/\$22.00
8703: 10+ (50#)/\$21.00 each
8704: pallet (2000#)/\$825.00

Blood Meal (12-0-0) Fastest release time of any organic nitrogen source. As a side dressing, apply at 3/4#/100 row ft 3 weeks after transplanting or 4 weeks after seeding, or till into soil at 3-5#/100 sq ft. **Nat'l List**

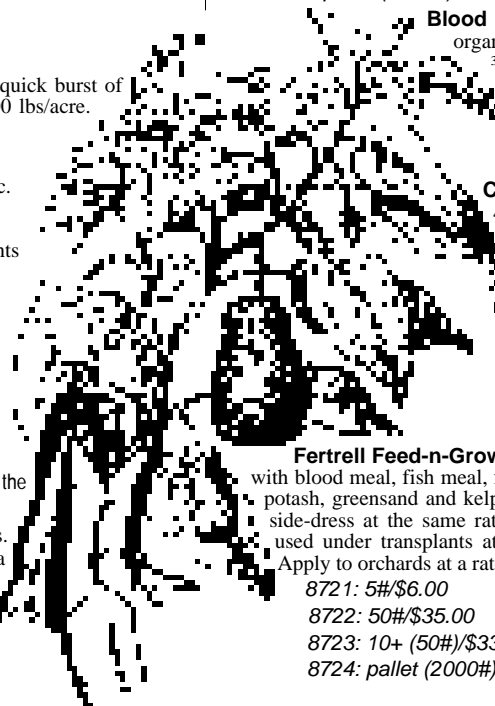
8711: 5#/\$12.00
8712: 50#/\$85.00

Cockadoodle Doo Organic Fertilizer (6-2-4) Pasteurized poultry manure and feathermeal, low in salt and ash, high in silica. A well-balanced slow-release fertilizer, the high silica content aids in reducing plant stress and improves drought resistance. Contains no weed seeds or pathogens. **OMRI**

8706: 5#/\$6.00
8707: 50#/\$26.00
8708: 10+ (50#)/\$25.00 each
8709: pallet (2000#)/\$1100.00

Fertrell Feed-n-Grow (3-2-3) Organic slow-release plant food made with blood meal, fish meal, feather meal, alfalfa, rock phosphate, sulfate of potash, greensand and kelp. Apply when planting at 2-3#/100 row ft and side-dress at the same rate when plants are a few inches high. Can be used under transplants at 1/4 cup per hole. Side-dress later if needed. Apply to orchards at a rate of 3000#/acre. **AFC**

8721: 5#/\$6.00
8722: 50#/\$35.00
8723: 10+ (50#)/\$33.00 each
8724: pallet (2000#)/\$1200.00



Fish Meal (8-12-2) A by-product of catfish farming in Mississippi, put through a hammermill to produce flowable particles that pass easily through a drop spreader or planter. Stabilized with hydrogen peroxide. Doesn't smell bad (for fish meal) and handles extremely well. Once in the ground it does not continue to smell. Excellent source of nitrogen and phosphorus. Use as a sidedressing or mix into compost to provide added nitrogen and a bacterial boost.

Nat'l List

8726: 5#/\$7.00
8727: 50#/\$42.00
8728: 10+ (50#)/\$41.00 each
8729: pallet (2000#)/\$1575.00

Kelp Meal Dried and ground seaweed contains trace minerals, enzymes and amino acids. An excellent source of naturally chelated elements. Brassicas respond well to it. Mix into the soil at the rate of 1#/100 sq ft or 300-600#/acre. Added to animal feed, kelp provides 60 minerals, 12 vitamins and 21 amino acids that improve animal health and production and enrich the manure for compost or crop application. Use at 1-2% of ration.

Nat'l List

8731: 5#/\$8.00
8732: 50#/\$57.50
8733: 10+ (50#)/\$55.00 each
8734: pallet (2000#)/\$2000.00

Soybean Meal (7-0.5-2.3) High levels of nitrogen and potassium are released as the soybean meal breaks down, providing fertility over time. Add when first planting or transplanting. For side-dressing, consider fish meal or blood meal. **Nat'l List**

8741: 5#/\$6.00
8742: 50#/\$36.00
8743: 10+ (50#)/\$35.00 each
8744: pallet (2000#)/\$1200.00

Spread the Mustard Fertilizer (4-2-4) 35% mustard seed meal, 18% alfalfa, 14% rock phosphate, 7% crab meal, fish meal and potassium sulfate with kelp and seaweed binders. A well-balanced complete fertilizer. Use as a sidedressing or add 1/2 oz or so when planting or transplanting. **MOFGA**

8746: 5#/\$6.00
8747: 50#/\$39.00
8748: 10+ (50#)/\$38.00 each
8749: pallet (2000#)/\$1500.00

Fish Emulsion (5-1-1) A by-product of the fish industry containing soluble liquid fish from head, bones and guts evaporated to a 48% solids level, treated with enzymes and stabilized with phosphoric or sulfuric acid to preserve the nitrogen. Goes into solution readily and can be used as foliar feed or part of a drip irrigation system without clogging the lines. Concentrated, use 2-4 Tbsp/gal of water for garden application or foliar spray. Use 1 1/2-3 qt/50 gal water per acre. **Nat'l List**

8751: pt (1#)/\$5.00
8752: gal (10#)/\$17.00
8753: 5 gal (55#)/\$75.00

Use weight in parentheses (#) to calculate shipping charge.

Fish Emulsion with Kelp (3-2-2) 90% fish emulsion and 10% liquid kelp concentrate provides both the N, P & K of fish emulsion and the micronutrients and growth hormones of kelp. Can be used as a foliar feed, in drip irrigation and for better seed germination and seedling growth. Improves plant vigor and stress resistance, increases storage life. Use 2 Tbsp/gal of water for foliar spray, 4 Tbsp/gal for soil drench. (We get good results from one glug per gallon.) Use 1 1/2-3 qt/50 gal water per acre. **Nat'l List**

8756: pt (1#)/\$5.00
8757: gal (10#)/\$17.00
8758: 5 gal (55#)/\$75.00

Liquid Kelp Maine-harvested kelp, *Ascophyllum nodosum*, is a source of growth-promoting and regulating hormones. Use when starting seeds to improve seed germination and increase root growth. As a foliar feed, it will increase mineral uptake in leaves and improve photosynthesis. Add Crocker's Fish Oil (#8865-6) as a spreader-sticker to increase coverage and absorption. Can be applied to seed, root or leaf at a rate of 2 Tbsp/gal of water. Use 1 1/2 qt/50 gal water per acre. **Nat'l List**

8761: pt (1#)/\$4.50
8762: gal (10#)/\$15.00
8763: 5 gal (55#)/\$65.00

Wettable Seaweed Powder Makes an excellent foliar spray containing growth hormones, trace minerals, enzymes and carbohydrates. Highly concentrated powder. One package makes one gallon of liquid seaweed concentrate. Add the powder and 1/2 tsp of a mild biodegradable soap or non-ionic surfactant (as a wetting agent) to one gallon of water, agitating to dissolve the powder. Use the concentrate at a rate of 1 Tbsp/gal. To make a ready-to-use solution, mix 1/2 tsp soluble powder and 1/4 tsp soap to one gallon of water. Reseal package if not used all at once; it absorbs water. **Nat'l List**

8765: 10.7 oz (1#)/\$10.00

Hydrolyzed Fish Powder (11-0.25-1) A good foliar feed for seedlings, plants and fruit trees. Mix 4# with at least 20 gallons of water as a spray for orchards, fields and vineyards. Apply before blossom, at early leaf stage, at fruit set, and as needed in times of stress. For small applications mix 1 Tbsp/gallon of water. Agitate while applying. **OMRI**

8766: 5#/\$15.00
8767: 50#/\$150.00

Grow-Plex SP Humic Acid Powder derived from Menefee Humates helps promote growth and vigor in plants. Small particles will hold and transport nutrients to plants either in a foliar feed, through irrigation, or applied to the roots directly in the furrow. Can be applied at a rate of 8-16 oz/acre in furrows, 4-8 oz/acre mixed with 100 gals of water in drip irrigation, or 2-4 oz/acre in 100 gals of water for foliar feed. For small projects use 1 tsp/gal of water. **Nat'l List**

8768: 12 oz (1#)/\$23.00

FulvaGrow 5% liquid fulvic acid. Fulvic acid may be the "wonder molecule." A powerful antioxidant and chelator. "Fulvic acid is so powerful that one single molecule is capable of carrying 60 or more minerals and trace elements into the cells." ([www.montmorillonite.info/Page5_fulvic acid.htm](http://www.montmorillonite.info/Page5_fulvic%20acid.htm)) Use as a foliar spray in combination with other nutrient sources for maximum health and productivity. Dilute or mix at rates between 1/20 and 1/100 depending on the application. It has a low molecular weight so is very effective at penetrating plant tissue carrying nutrients where they are most needed. **OMRI NEW!**

8769: 2 1/2 gal (25#)/\$58.50

Neem Oil promotes the health and vitality of trees and plants. Neem has long been recognized for its anti-fungal, anti-bacterial and anti-parasitic properties. Mix 1 oz neem oil with approximately 1 gal of lukewarm water and 1/2-2 tsp liquid soap. Mix thoroughly, adding a bit more soap if oil remains on top of the water. Spray for full leaf coverage every 7-10 days for 4-5 weeks. Avoid spraying when bees are pollinating as neem is harmful to larvae and developing grubs. **OMRI**

8770: qt (2#)/\$37.50
8771: gal (10#)/\$100.00

Consult www.groworganicapples.com/organic-orcharding-articles/neem-oil.php for more about using neem.

"One ought, every day at least, to hear a little song, read a good poem, see a fine picture, and if it were possible, to speak a few reasonable words."
-Goethe

Compost Starters and Compost

Use weight in parentheses (#) to calculate shipping charge.

Introduction to Biodynamic Products Both formulations contain BD Preparations 502–507 plus stirred BD 500. Pfeiffer products designed for those just getting started in or curious about biodynamic farming. Each comes with detailed instructions.

BD Compost Starter Treats up to 1½ tons of organic matter. **AYC**
8775: (0#)/\$12.00

BD Field Spray Concentrate For use just prior to turning in stubble or green manure. Enough to treat 1 acre. **AYC**
8776: (0#)/\$20.00

Worm Castings (0.5-0.5-0.3 and trace minerals) Recent research at Ohio State University indicates that adding 10–20% worm castings by volume to potting mixes greatly improves germination, seedling growth and plant productivity. It is also a case of more not necessarily being better, as greater amounts produced decreased benefit. (See *Growing for Market*, Sept. '06) The researchers are not sure why, but the worm castings limited plant disease and had definite beneficial effects including enhanced mycorrhizal activity and the suppression of parasitic nematodes. Adam Tomash has been using homegrown castings in his garden for years and anyone who has seen his vegetables can attest to their magnificence. The benefits are lost if the castings are sterilized. Two sizes, 8 quart and 25 lb bags. **Nat'l List**

8778: 8 quart (8#)/\$12.00

8779: 25#/\$30.00

Buckwheat Hulls When we visited the Brooklyn Botanic Gardens last May to glory in the peonies and revel in the roses, we saw pallets of bagged buckwheat hulls waiting to be spread as mulch on the rose beds. It made a fine display. Back in Maine I bought some to try. I weeded one of our small rose beds, neglecting the others shamefully, and covered the soil with a thin layer of hulls. It looked sparse at first and the hulls seemed light enough to blow away in a good breeze. They swelled up nicely after a rain or two and settled down to a summer of weed and grass suppression. Three months later I haven't reapplied mulch or attention and the bed is pretty much weed free. I've always liked kasha and now enjoy the rest of the seed. 2 cu ft bag. **AYC NEW!**

8780: two cubic feet (25#)/\$14.00

8781: 10+ (25#)/\$13.00 each

8782: pallet (1000#)/\$450.00

Coast of Maine Quoddy Blend Compost (1-0-0) Blend of composted lobster, shrimp, crab, salmon, and cow manure. Rich in micronutrients. Ideal for beds. **MOFGA**

8784: one cubic foot (40#)/\$9.00

8785: 10+ (40#)/\$8.50 each

Coast of Maine Penobscot Blend Compost & Peat (0.8-0.1-0.1) 75% composted salmon, mussels and wild blueberries with 25% sphagnum moss peat. Perfect for mulching trees and shrubs, or top-dressing lawns. Adds nutrients and structure to planting mixes. **MOFGA**

8786: one cubic foot (40#)/\$9.00

8787: 10+ (40#)/\$8.50 each

Living Acres Kompost-1 (1.5-6-2) A blend of dairy and poultry manure aerobically composted with biodynamic compost starter. 60% organic matter and all the minerals and nutrients associated with manure. Use as a topdressing or mix into the soil at up to 150 lbs/1000 sq ft. Use as a potting mix in a ratio of one part Kompost to 6 parts peat. **MOFGA**

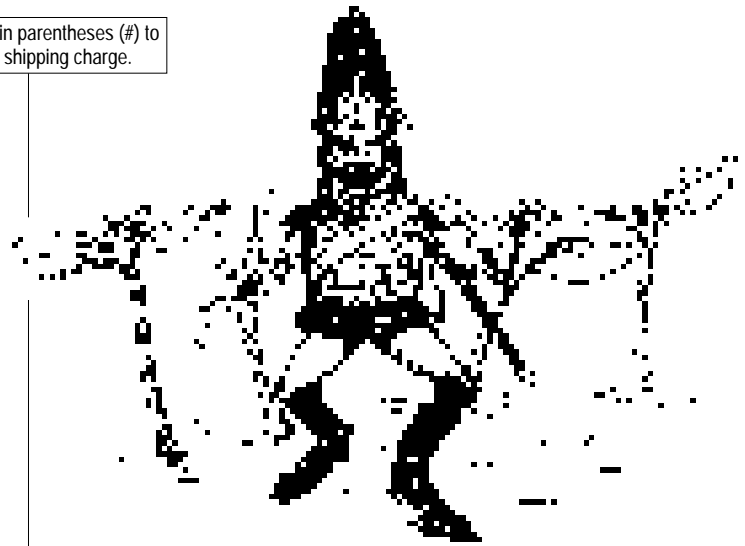
8791: (30#)/\$9.00

8792: 10+ (30#)/\$8.00 each

Vermont Compost Plus A blend of composted manure and plant materials, sphagnum peat, protein, black rock phosphate, gypsum, vermiculite, kelp and langbeinite. A great boost for transplants, potted plants and garden soils. Improves soil structure, provides a generous dose of slowly released nutrients and enhances microbial activity. Rejuvenate tired plants by spreading a shallow layer on the top of the container and watering in. Add a few tablespoons in the bottom of a transplant hole to reduce transplant shock. Side-dressing greens after early cuttings will stimulate new growth. Improve your potting soils with 4–8 Tbsp/qt. Will not burn. **AYC**

8793: 20 qt (20#)/\$17.00

8794: 60 qt (60#)/\$35.00



Plant Protection & Pest Control

All these products, ranging from preventive measures such as bat houses, to last resorts such as copper or PyGanic, are commonly used in sustainable farming and gardening. Products in this section come with detailed instructions on their labels. Contact us in case you don't receive the attached booklets or if the label is illegible. For more info, visit the "Links to Our Suppliers" on the Organic Growers Supply section of our website.

Use our #9250 **Dustin-Mizer** or #9251 **Backpack** and #9252 **Hand-held Sprayers** to apply these products. We welcome your suggestions about successful low-impact pest control methods or products.

USDA NOP rule concerning disease and pest control

Caution certified-organic growers: Before using any of these products for pest or disease control, you must have followed the National Organic Program rule 205.206(e). A product being labeled here as allowed is not sufficient to meet standards for organic certification. See page 107 or the NOP rule for more information.

Corn Gluten (10% N) Works as a pre-emergent control for weeds like dandelions, pigweed and crabgrass by inhibiting root formation. Not recommended for use on existing weeds, as the high nitrogen content makes it a very effective fertilizer for leaf growth. A case of "that which does not kill me makes me stronger"? Apply at 20lb/1000 sq ft close to the time of weed germination. Moisture is necessary for activation, but too much moisture reduces effectiveness. Can be used in gardens for weed control once the desired plants are well-established seedlings. A good practice would be manual cultivation followed by an application of corn gluten. May contain GMO corn. **AYC**

8797: 50#/\$60.00

8798: 10+ (50#)/\$59.00 each

AllDown Effective non-selective herbicide with no adverse environmental effects. A blend of 5% citric acid and 0.2% garlic mixed with acetic acid, yucca extracts and water which will burn down top growth. Weeds controlled include plantain, giant foxtail, burdock, velvetleaf and Canada thistle. Apply only to unwanted plants, use a barrier to prevent spraying other plants and wash spray off desired plants immediately. Most effective on young plants, repeated application will be required for perennial weeds. Apply at full strength, do not dilute. 1 qt treats approximately 2000 sq ft, 2½ gal treats ½ acre. Certified in compliance with NOP and OCIA regulations by Custom Certification Services. **AYC**

8802: 2½ gal (22#)/\$65.00

Serenade™ A bacterial fungicide, *Bacillus subtilis*, effective on a wide range of bacterial and fungal diseases of vegetable and fruit crops, such as early and late blight, powdery mildew, fire blight and scab. By colonizing the leaf surface, it prevents the establishment of diseases by outcompeting pathogens for space and nutrition, and by preventing their reproduction. Two formulations: liquid concentrate for home gardens; wettable powder for larger applications. Rate varies by disease, but is about 4 oz/gallon of water for the liquid concentrate and 6#/acre for the powder applied in 5- to 7-day intervals or as needed. Apply in a rotational program with other registered fungicides for best blight control. Most effective for orchards if applied later than any sulfur sprays. **OMRI**

8804: qt (2#)/\$30.00

8805: 12#/\$275.00

Concern Copper Soap Ready to use. A homeowner's copper spray to combat a variety of fungal and oomycotic infestations. Spray at the first signs of infection being sure to make contact with every part of the leaves. Repeat as needed. Safe to use indoors as well as outdoors. 32 oz. **OMRI NEW!**

8806: 32 oz (2#)/\$9.00

Champ WG (77% Copper Hydroxide $\text{Cu}(\text{OH})_2$) Copper is a strong broad-spectrum fungicide and should be used only for specific problems after all other attempts have failed. Copper hydroxide will penetrate leaf tissue to kill bacterial and fungal spores, but may cause leaf damage. Contains the equivalent of 50% metallic copper in micronized form, increasing coverage and penetration. Apply in a solution with Crocker's Fish Oil (#8865-6), NuFilm P (#8864) or another spreader-sticker for better wetting and adhesion. Recommended rates of application vary from 1/2 to 4 lbs/acre depending on crop and severity of disease outbreak. **OMRI**

8807: 20#/\$155.00

Actinovate Supplies beneficial bacteria *Streptomyces lydicus* which will colonize the roots or foliage of plants and provide protection against disease and soil pathogens. Controls pythium, rhizoctonia, phytophthora, fusarium, verticillium, powdery and downy mildew, and other fungal diseases. Apply as a root drench or foliar spray 3–12oz/150 gal water/acre. **OMRI**

8808: 2 oz pkg (1#)/\$17.00

8809: 18 oz pkg (2#)/\$100.00

Micronized Sulfur Used to control scab, powdery mildew and leafspot. Sulfur is not water soluble; the smaller the particle the better it stays in suspension. These particles are less than five microns. To apply, thoroughly mix powder with water and keep the mix agitated constantly or apply as a powder with #9250 Dustin-Mizer. 1# size **Nat'I List**, 30# **OMRI**

8811: 1#/\$9.00

8813: 30#/\$75.00

Safer Garden Fungicide A liquid concentrate, 12% elemental sulfur, a natural fungicide. Use for control of leaf spot, rust and powdery mildew on house and garden plants, trees and shrubs. Dilution rates vary depending on the task, use 1 or 2 oz/gal which treats 250–350 sq ft. **OMRI**

8815: pt (1#)/\$11.00

THAT™ Liquid Sulfur (52% S) Easier to use in sprays and suspensions than micronized sulfur. Two to four well-timed applications can be effective on apple scab when combined with good orchard sanitation practices. Each gallon contains 6 lbs sulfur. **AYC**

8816: 2 1/2 gal (22#)/\$80.00

SucaShield Tobacco leaf hairs produce esters that protect the leaves from attack by soft-bodied insects and mites. SucraShield contains sucrose octanoate esters derived from these hairs in concentrated form. Sprayed at the first sign of trouble it will form a clear coating that protects plant leaves from further damage. Can be mixed with other fungicides and insecticides and is not normally phytotoxic. Mix at 1 to 1 1/4 fluid oz/gallon. Agitate frequently while applying and apply as necessary in 7 to 10 day intervals. **OMRI NEW!**

8821: pt (1#)/\$35.00

8822: gal (10#)/\$200.00

Surround™ WP Crop Protectant

Forms a particle film which coats the surface of leaves and fruits, creating a barrier which acts as a broad-spectrum crop protectant, reducing damage from various insects, mites and disease-carrying pests. Recommended for controlling European apple sawfly, plum curculio, Japanese beetles, leafhoppers, CPB, thrips and other maleficent insects on fruit crops and field crops, effective against cucumber beetles on cucurbits. 95% kaolin clay, Surround's layer of white particles creates an unfamiliar environment for the attacking insects, prevents them from recognizing their target, and, if they land, the particles rub off on them causing irritation and excessive grooming. The white surface also reflects sunlight, preventing sunburn and heat damage. Michael Phillips at Lost Nation Orchard estimates that one 25# bag is sufficient to treat 10 trees for one season. Begin application before petal-fall. Apply 2–3 times the first week to build up a good coating and then every 10–14 days or as the film weathers or new growth appears, more frequently in rainy weather. Maintain a good coat until plum curculio season ends, around June 30 in central Maine. Recommended amounts are 25#/50 gal of water for concentrated use; 25#/100 gal of water for diluted spray, 1/2#/gal of water in hand and backpack sprayers. **OMRI**

8831: 25#/\$40.00

8832: 10+ (25#)/\$39.00 each

Golden Spray Oil™ A spray for dormant scale on fruit trees and an insecticide for corn earworms, aphids, beetle larvae, leafhoppers and other vegetable pests. Dilution rate depends on application. Can be applied with a hand sprayer and may be mixed with other pesticides. Egg masses should be sprayed with a 50% mix until completely saturated. Soybean oil. Available in quarts. **OMRI**

8836: qt (2#)/\$18.00

Use weight in parentheses (#) to calculate shipping charge.

Stylet Oil High-grade mineral oil for control of powdery mildew, scale, mites and other insects on trees and vegetables.

Use as a dormant and summer oil. Kills mildew on contact and protects sprayed surfaces for 10–14 days. Controls plant-feeding mites, leafhoppers, leafminers, fall army worms and corn earworms. Spray at 3qts-2gal/100 gal water depending on application. **OMRI**

8841: gal (10#)/\$28.00

8842: 2 1/2 gal (22#)/\$60.00

NuFilm P Spreader/stickers increase the life and effectiveness of pesticide applications. Forms a sticky elastic film that holds the application in contact with leaf surfaces. Can withstand heavy rainfall for 7 to 10 days, reducing the need to reapply. Will not clog or foam. May be applied to all crops and in all spray applications, 4–6oz/100 gal water. **OMRI BACK!**

8846: gal (10#)/\$65.00

Crocker's Fish Oil Spreader-sticker rich in nutrients and enhancers. Increases the absorption of foliar nutrients. Orchardist Michael Phillips recommends it as a UV inhibitor for use with Bt in codling moth sprays. Spraying with a mixture of garlic barrier and fish oil improves storage quality in onions; sprayed on garlic, the mixture controls thrips. Use 1-1 1/2 Tbsp/gal or 1/2-1 cup/10 gals. **WSDA**

8851: gal (10#)/\$27.50

8852: 5 gal (55#)/\$125.00

Deer Stopper prevents damage by coating leaves and fruit making them unpleasant to the deer. Works by a combination of taste and smell. Dries clear and odor free and will not wash off in the rain. Lasts up to 30 days. Safe to apply to vegetables and fruits. May be applied in any climate or weather as long as the sprayer does not freeze and clog. Dilute at 1 part/9 parts water. **OMRI**

8853: qt (2#)/\$47.50

8854: gal (10#)/\$145.00

Hot Pepper Wax Repels insects or animals. Capsaicin, the "hot" in hot peppers, is the active ingredient; mixed with waxes it sticks to the surface of plants and rubs off on insects like thrips, leafhoppers, whiteflies and aphids as they attempt to feed, causing irritation and discouragement. Animals who nibble on coated plants get a mouthful of heat, deterring them from further grazing. Effective on deer, squirrels, rabbits, woodchucks, even cats and dogs. The waxes in the spray hold the hot pepper to plants for up to 21 days and are not washed off by rain. Does not affect the taste of fruits and vegetables. Spray once a week at 16 Tbsp/gal water for animals, 8 Tbsp/gal for insects, until the desired level of control is achieved, then every two weeks thereafter at half that concentration. **Not Allowed**

8856: pt (1#)/\$15.00

Garlic Barrier 100% garlic juice—just mix with water and spray to repel insects such as ants, aphids, grasshoppers, spiders, spider mites, thrips and whiteflies. Several studies have suggested that garlic oil has fungicidal properties. One warning: this stuff stinks, is best mixed outdoors. The odor doesn't last and the taste of the vegetables is not affected. One quart covers 80,000 sq ft. Gallon is more concentrated and covers 20 acres. **OMRI**

8862: qt (2#)/\$10.00

8863: gal (10#)/\$75.00

For a link to a study done in Springvale, ME, about garlic and worming sheep, see www.garlicbarrier.com/sheep.html.

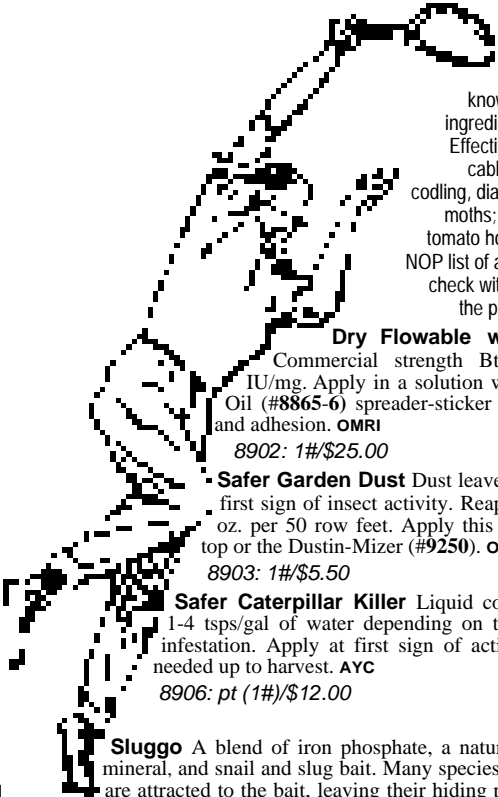
Safer Insecticidal Soap Biodegradable contact insecticide effectively controls mites, aphids, earwigs, lace bugs, leafhoppers, mealybugs, scale, spider mites, thrips, tent caterpillars and whiteflies. Fatty acids penetrate insect's soft outer membrane and disrupt normal functions. Use approximately 2 1/2 oz/gal water. Hard water can reduce soap's effectiveness. Mix the concentrate with alcohol to increase penetration. **OMRI**

8875: pt (1#)/\$11.00

Milky Spore Japanese beetles are steadily moving north. We've had them in China for several years and are starting to find them on roses at the warehouse in Clinton, about 15 miles further north. Milky Spore's active ingredient is the bacterium *Bacillus popilliae*. Spread on the lawn, the spores collect on grassroots and are eaten by the Japanese beetle grubs. The grubs die in 7-21 days releasing billions of new spores. For best results treatment should be communitywide. Apply one teaspoon of powder every 4' in 4' rows throughout the infested area. **AYC**

8881: 10 oz (1#)/\$35.00

Use weight in parentheses (#) to calculate shipping charge.



DiPel *Bacillus thuringiensis* subsp. *kurstaki*, better known as Bt, is the active ingredient in these products. Effective on cabbage worm, cabbage looper, larvae of codling, diamondback and gypsy moths; spruce budworm and tomato hornworm. Bt is on the NOP list of allowable substances, check with your certifier about the particular formulations.

Dry Flowable wettable powder

Commercial strength Bt, approx 32,000 IU/mg. Apply in a solution with Crocker's Fish Oil (#8865-6) spreader-sticker for better wetting and adhesion. **OMRI**

8902: 1#/\$25.00

Safer Garden Dust Dust leaves thoroughly at the first sign of insect activity. Reapply as needed. 2-3 oz. per 50 row feet. Apply this Bt with the shaker top or the Dustin-Mizer (#9250). **OMRI**

8903: 1#/\$5.50

Safer Caterpillar Killer Liquid concentrate Bt. Mix 1-4 tps/gal of water depending on the intensity of the infestation. Apply at first sign of activity and repeat as needed up to harvest. **AYC**

8906: pt (1#)/\$12.00

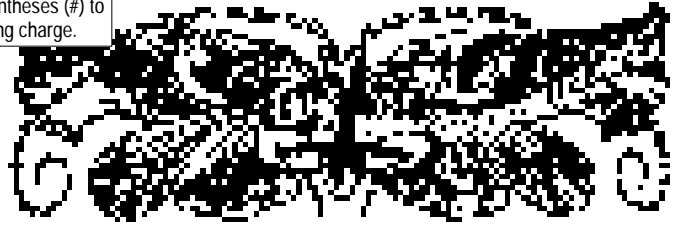
Sluggo A blend of iron phosphate, a naturally occurring soil mineral, and snail and slug bait. Many species of snails and slugs are attracted to the bait, leaving their hiding places and plants to feed. When they ingest even small quantities of iron phosphate, they cease feeding and die a few days later. Damage reduction is almost immediate. Scatter on the lawn or around plants or in the soil around trees and shrubs. Ground or lawn should be moist when applying. Apply at 1#/1000sq ft, 1 tsp/sq yd. Reapply as the bait is taken. **OMRI**

8911: 1#/\$10.00

8912: 5#/\$35.00

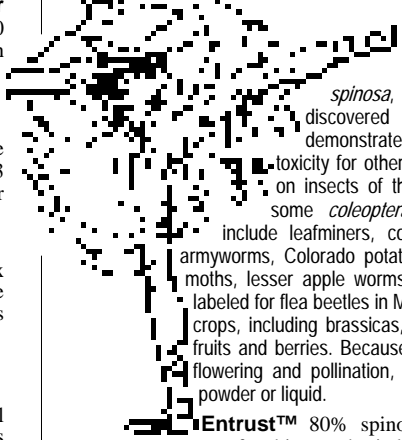
8913: 40#/\$200.00

PEST CONTROL



Naturalis™ is a formulation of *Beauveria bassiana*, a soil-borne fungus which attacks a wide range of adult and immature insects, including Colorado potato beetle and European corn borers. Under favorable conditions spores adhering to the outer shell germinate and release enzymes which dissolve the cuticle and allow the fungus to grow into the body where it produces a toxin called Beauvericin which weakens and kills the host. The fungus produces an anti-bacterial which enables it to outcompete the insect's intestinal bacteria and grow throughout the body. *Beauveria* will also colonize certain corn varieties and reduce corn borer tunnelling. *Naturalis* works through contact infestation so good coverage is essential. Because it attacks beneficials as well as pests, don't spray when drift is likely. Spray early in the infestation cycle; don't spray fungicides within 48 hours of spraying *Naturalis*. Application rate is 10-15 oz/acre. **OMRI**

8921: qt (2#)/\$90.00



Spinosad is a mixture of spinosyn A and D metabolites produced during fermentation by *Saccharopolyspora spinosa*, an actinomycete (fungus-like) bacterium discovered in Caribbean soil. The spinosyns demonstrated excellent insect control with very low toxicity for other organisms. Spinosad is selectively active on insects of the orders *lepidoptera*, *diptera* as well as some *coleoptera* and *hymenoptera*. Targeted insects include leafminers, corn borers, leafrollers, cabbage loopers, armyworms, Colorado potato beetles, thrips, apple maggots, codling moths, lesser apple worms and oriental fruit moths. *Entrust* is also labeled for flea beetles in Massachusetts. Effective for a wide range of crops, including brassicas, solanums, cucurbits, corn, cereal grains, fruits and berries. Because it is toxic to bees, avoid spraying during flowering and pollination, when they are most active. Available as powder or liquid.

Entrust™ 80% spinosyns. The recommended application rate for this powder is low, around 1-2 oz per acre in 5-10 gal of water. The high cost has caused people to ask why we don't divide it up to sell in smaller quantities. Since we aren't registered pesticide repackagers it is illegal for us to do so for resale. However, nothing prevents groups from buying a pound and dividing among themselves; the pound even comes packaged as four 1/4-pound packets. Additional labels with application instructions are available at the DowAgro website: www.dowagro.com. The website also has instructions for application rates for small plantings. **OMRI**

8922: 1#/\$625.00

Monterey Garden Spray Same great spinosyns in a 0.5% solution. Mix 1-2 oz/gal for all crops. **OMRI**

8923: pt (1#)/\$15.00

8924: gal (10#)/\$80.00

GF-120 NF Naturalyte Blueberry Maggot & Fruit Fly Control is a mixture of spinosad and sugar for use with most fruiting crops to control fruit flies. Recommended for treatment of blueberry maggot and cherry fruit flies. May be applied up to 5 times a season for blueberries. Mix at a rate of 1:1.5 GF-120 to water, although if used for ground application and in very low humidity a dilution up to 1:5 can be used. Apply at a rate of 10-20 oz GF-120 to the acre or 1-3 oz per individual tree. **OMRI**

8927: gal (11#)/\$200.00

PyGanic™ Pyrethrin is a botanical insecticide with low toxicity for humans and other vertebrates derived from a species of chrysanthemum, *Tanacetum cinerariaefolium*, grown extensively in Kenya and Tasmania. *PyGanic* is a pyrethrin formulation with a rapid knockdown and kill rate. The pyrethrins break down quickly so the toxic effects are short lived. May be used up to twelve hours before harvest. Among the pests for which this is effective are Colorado potato beetle, leafhopper, cucumber beetle and flea beetle. This is a broad-spectrum insecticide so results are not limited to pests; it's a poison, so use wisely. Application rate is 4 1/2 to 18 oz/acre depending on pest and severity of infestation. 5% pyrethrins, available in quarts. **OMRI**

8925: qt (2#)/\$200.00



Beneficial Insects

Beneficial insects and nematodes have an important role in ecologically sound pest management. Effective use requires that we monitor our fields and greenhouses for early signs of infestation because releases must be timed with the appearance of the pests. This encourages us to pay attention, always a good thing. The timing constraints make it impossible for us to supply most beneficials, but we offer a few species whose release is not as time sensitive or which can be stored for a few weeks. Others are available from The Green Spot, Ltd. of Nottingham, NH. For more information and answers to your questions contact them at their website: greenmethods.com or call them at 603-942-8925.

These beneficials are all drop-shipped so be sure to specify the address to which you want them delivered. They will not be available at the warehouse. **Because a substantial portion of their cost is shipping we have two prices for each: those delivered in New England and those delivered outside of New England.**

Beneficial nematodes are parasitic on soil-dwelling insect larvae. They enter the larvae, feed, deposit a bacterium which poisons the insect, and lay eggs. After spending their early days inside the dead host, the new generation of nematodes searches for new larvae in which to dwell. Repeated releases are recommended: one or more in early spring to catch pupating grubs and later on, as the adult insects are laying eggs. Probably will not establish lasting populations in our cold climate, so nematodes should be released each year as long as the grubs remain. Unopened packages will last up to three months in the refrigerator, but use the whole package within a day or two after opening.

Apply nematodes by mixing them in water according to package directions and spreading them with a watering can or pressure sprayer. One package will cover 2000 sq ft. Soil temperatures should be between 60 and 70° for best results. For row crops apply in a 3"-wide band centered on the row at planting; for perennial plants spray at the base, in grass or sod spray evenly. Then apply 1/2-1" of water to soak them into the soil.

We list two types of nematodes; both attack armyworms, cabbage root maggots, codling moth and Colorado Potato Beetle as well as the species listed in the descriptions below.

Hb nematodes *Heterorhabditis bacteriophora* are used to control deeper-dwelling lethargic pests such as white grubs—the larvae of Japanese and June beetles—whose presence can be detected by the appearance of brown patches in the lawn where they've eaten the grass roots. Also work well on chafers and weevils. **Nat'l List**

8940: in New England (0#)/\$35.00

8941: outside of New England (0#)/\$55.00

Sc nematodes *Steinernema carpocapsae* attack shallow-dwelling active pests such as onion maggots, fleas and earwigs. For borer control in trees spray the nematodes into their holes with an oil can; you can also inject them into squash vines for squash borers or onto corn silks for corn earworms. **Nat'l List**

8942: in New England (0#)/\$35.00

8943: outside of New England (0#)/\$55.00

Convergent Lady Beetles *Hippodamia convergens* are very popular for aphid control. Best restricted to greenhouse use. When they are released in the open, unless food is readily available, they will fly away though probably not home to California. Rate of application is 3-5 beetles per plant or about 500 (one package) for a home greenhouse. Repeated small releases are best and easy to do as you can reclose the package and store the bugs for 2 to 3 months in the refrigerator. **Nat'l List**

8944: in New England (0#)/\$40.00

8945: outside of New England (0#)/\$60.00

For more information about using beneficials see The Organic Gardener's Handbook of Natural Insect and Disease Control (#9787); www.nysaes.cornell.edu/ent/biocontrol/, the website of Ag Extension in NY (for a more complete menu leave off "biocontrol/"); also the handbook at <http://www.caes.state.ct.us/PlantPestHandbookFiles/pplIntroductory/pplfront.htm>

Fertrell Mineral Feed Supplements

Formulated for organic production, these mixes provide the minerals, vitamins and nutrients needed to keep your animals healthy and productive. In addition to the products listed below, we carry several others that supplement animal feed: Aragonite (#8601-4), Azomite (#8611-9) and Kelp (#8731-4).

Poultry Nutri-Balancer Mix of supplemental nutrients and vitamins to be added at a rate of 60 lbs. per ton of feed. 12-14% Ca, 10% P and 10-12% NaCl with necessary trace minerals, vitamins and beneficial microbes. Formulated with kelp meal, not methionine. **AYC**

8958: 6#/\$12.00

8959: 60#/\$80.00

Beef Balancer Heavily fortified supplement relieves stress and meets the nutritional requirements of brood cows. For growing animals feed at 2 oz per day, for finishing 2-4 oz per day, for brood cows 4 oz per day prior to calving and while lactating. 15-18% Ca, 6% K, 12% NaCl, 6% Mg, 1.5% P with trace amounts of Se, Cu, and Zn, also vitamins A, D3 and E. **AYC**

8960: 5#/\$7.00

8961: 50#/\$40.00

Swine Grower Vitamin and mineral supplement provides a nutritionally complete hog premix. Maximizes weight gain and feed efficiency. 18-21% Ca, 8.5% K, 7-9% NaCl with traces of Se, Zn and Fe, and with vitamins A, D3 and E. Contains no lysine. Mix with grains and proteins at 60# per ton of feed. Do not overmix. **AYC**

8962: 6#/\$8.00

8963: 60#/\$50.00

Cattle Choice 12-12 Formulated for organic production of beef and dairy cattle. A mineral and vitamin mix designed to meet their macro and micro mineral needs, does not contain salt. Contains copper so should not be fed to sheep. Make it available as a free-choice supplement. **AYC**

8964: 5#/\$8.00

8965: 50#/\$55.00

Grazier's Choice A mix of kelp meal, feed-grade soft rock phosphate, Redmond mineral salts, vitamin E, selenium and diatomaceous earth to meet the needs of grazing livestock for vitamins and trace minerals not often found in forage. Contains no added copper so not harmful to sheep. A free-choice supplement, make it readily available to your animals. **AYC**

8966: 5#/\$8.50

8967: 50#/\$55.00

Goat Nutri-Balancer Provides balanced nutrition for all stages of a goat's growth. For dairy animals use 1-1 1/2 oz in feed per animal each day, for meat goats 1 oz a day. 14-16% Ca, 9% P, 4% Mg, trace minerals, vitamins A, D3 and E, yeast, lactic acid bacteria, no more than 1% salt. **AYC**

8980: 5#/\$8.00

8981: 50#/\$70.00

Horse Power Add to feed at 2 oz per day for mature horses to improve strength and stamina and reduce stress. 9-10.5% Ca, 3% P, 1% Mg, 18-20% salt with trace minerals, vitamins, yeast and lactic acid bacteria. **AYC**

8982: 5#/\$8.00

8983: 50#/\$70.00

Sheep Nutri-Balancer Vitamin and mineral supplement, nutritionally complete, with no added synthetic copper, promotes optimum animal health. Feed 1 oz per animal per day. Includes 8% Ca, 3% P, 1% salt, 3% K, 8% Mg in addition to vitamins and minerals. **AYC**

8984: 5#/\$7.00

8985: 50#/\$60.00

We are no longer stocking organic feed. However, if you would like to buy in bulk we may be able to arrange a shipment for you. The minimum order is 2 tons of one commodity but, if there is interest, we can try to arrange a group bulk order. Call Ed Hamel at (207) 873-7333 ext. 118.

Redmond Trace Mineral Salt At least 95% NaCl, these salts accumulated as the great inland sea, the Humboldt Sea, evaporated. The trace minerals provide a valuable supplement for livestock growth and health. Free-choice supplement; animals love it. **OMRI**

8968: 25#/\$11.00

8969: 50#/\$20.00

Diatomaceous Earth Fine powder of microscopic diatom shells. Use as an anti-caking agent for feed and animal bedding. Many additional uses. DE comes in two grades: pool filter grade is chemically treated and hazardous for mammals, therefore *should not be used*. Our natural grade does not pose a respiratory hazard and is the right type to use with animals. 4# size **OMRI**, 50# size **Nat'l List**

8970: 4#/\$11.00

8972: 50#/\$40.00

Seed-Starting Supplies

Cedar Seedling Boxes Made in Maine from native cedar. These 6x9x3" seed-starting boxes offer a durable reusable alternative to fiber packs for starting small batches of seedlings. Package of 5 boxes. Easy assembly, nails included.

9010: 5 (3#)/\$9.00

Cedar Plant Tray Maine-made from native cedar, a great alternative to plastic. 11x22x2³/₄" durable reusable trays will hold 6 six-packs (#9013). Use Heavy Duty Dome (#9042) for added climate and moisture control. Easy assembly, nails included. Set of 3 trays.

9012: 3 (6#)/\$18.00

Kord® Fiber Grow Garden Paks Made of recycled cardboard fiber, these handy planters breathe much like clay pots. Inside dimensions 6x4³/₄ x2³/₄", 6 nest in a 1020 Tray.

9015: 6 (1#)/\$2.50

9016: 100 (5#)/\$30.00

9017: 300 (15#)/\$85.00

Jiffy Pots Eliminate transplant shock! Peat Jiffy Pots can be put directly in the ground without disturbing seedlings. We stock four sizes. **OMRI**

2" Round Convenient for small seedlings and folks with limited space.

9020: 50 (1#)/\$4.00

3" Round Good for tomatoes, brassicas and melons.

9022: 50 (1#)/\$5.00

9023: 1500 (35#)/\$140.00

4" Round For squashes and other late-season plants.

9024: 50 (1#)/\$10.00

3" Square Can be more tightly packed than round pots. Saves space and conserves moisture.

9026: 36 (1#)/\$6.50

9027: 1000 (35#)/\$165.00

Six-packs A six-pack for the active set, not for couch potatoes. A 1020 Tray will hold 36 seedlings in these convenient tear-apart plastic containers. 6 cells, 2³/₁₆x2³/₈x3¹/₄", to a pack, 6 packs to a sheet. Great for selling seedlings.

9013: 3 sheets (1#)/\$3.50

9014: 100 sheets (30#)/\$95.00

Plug Flats Also known as Pro Trays. Fit into standard 1020 Trays for easy handling in the greenhouse. Made of lightweight black plastic with bottom drain holes. Available in 2 sizes: 50 or 72 round cells.

	Cells	Width	Depth
9032-9033	50	1.88"	2.31"
9034-9035	72	1.50"	2.31"

9032, 9034: 3 (1#)/\$5.00

9033, 9035: 100 (30#)/\$125.00

"1020" Plant Trays and Domes

10¹/₂x21x2¹/₄" plastic trays used to start seedlings in the greenhouse. Holds a sheet of Six-packs or at least 18 3" Jiffy Pots. When the pots are damp we cram in several more.

Plant Trays with Drain Holes

9036: 3 (1#)/\$5.50

9037: 100 (30#)/\$150.00

Plant Trays without Drain Holes Same as above, without holes.

9028: 3 (1#)/\$5.50

9029: 100 (30#)/\$150.00

Domes Clear plastic, fit over 1020 Trays to create a miniature greenhouse for seedlings. Keep soil from drying out, speed germination, and encourage good early growth.

9038: 3 (1#)/\$8.50

9039: 50 (30#)/\$130.00

Heavy Duty Plant Tray These sturdy 11x22x2³/₄" plastic trays will last for years and are strong enough to hold 50 2" soil blocks without strain. Good for windowsills because they have no drain holes. Store out of sunlight when not in use; will fade and weaken if left in the sun over the summer.

9040: (1#)/\$9.00

9041: 10 (10#)/\$80.00

Heavy Duty Dome Sturdy clear plastic domes from the supplier of our heavy-duty plant trays. Will last for years with reasonable care.

9042: (1#)/\$4.75

9043: 10 (10#)/\$45.00

Heavy Duty Plant Tray & Dome Combo

9044: (2#)/\$13.00

9045: 10 (20#)/\$120.00

Seed Tray Heater Chrome steel frame holds seedling trays above the heating element which plugs directly into a regular 110 volt outlet. Raises soil temperature 10-15° and speeds germination and growth. Two sizes.

9046: 21x15" (6#)/\$70.00

9047: 38x17" (12#)/\$100.00

TOOLS

Organic Growers Supply on the web: go to www.fedcoseeds.com and click on **Organic Growers Supply** for

- online ordering
- downloading paper order forms
- manufacturer information and contacts
- out-of-stock and backorder information

Ladbrooke Soil Blockers

The genuine article, made in England by Ladbrooke Ltd. The soil block system allows for easy transplanting and eliminates root spiraling.

Mini 5 Blocker Makes five 1½" soil blocks in one stroke.

9049: (2#)/\$32.50

Mini 4 Blocker Makes four 2" soil blocks in one stroke.

9050: (2#)/\$32.50

A successful recipe for soil block mix (with thanks to Eliot Coleman): Mix 2 10-qt. buckets peat or coir with 1/2 cup of lime and 2 cups of azomite. Add 2 buckets of sand, 2 more buckets of peat, 1 cup of phosphate, 1 cup of greensand, 1 cup of bloodmeal and 1 more cup of azomite. Mix well. Add 1 bucket of compost and 1 bucket of soil and mix again. Add water until the mixture is spongy but not soggy and start making blocks.

Micro 20 Blocker

Makes 20

micro-blocks per stroke in a 3x4" area.

Use when your space is limited or when you want a large number of transplants. Micro-blocks are easier to warm, speeding germination, and can be inserted into 2" soil blocks to continue seedling growth.

9051: (1#)/\$30.00

Micro Blocker Inserts

Square plastic inserts which can be screwed into the Mini 4 or Multi 12 blockers to make 2" soil blocks that are ready to receive micro-blocks. Pop out the plastic nipple on the blocker and screw in these inserts.

9052: package of 4 with hardware (1#)/\$6.25

Multi 12 Floor Blocker Makes twelve 2" blocks at one time. Very helpful for large production. Long handle means no stoop work.

9053: (10#)/\$205.00

Multi 20 Floor Blocker Makes twenty 1½" blocks at one time. Long handle. Great space-saver for starting lettuce and greens.

9054: (10#)/\$205.00

...Thus what we call limestone is a more or less pure calcareous earth in combination with a delicate acid, which is familiar to us in the form of a gas. Now, if we place a piece of this stone in diluted sulphuric acid, this will take possession of the lime, and appear with it in the form of gypsum, the gaseous acid at the same time going off in vapor. Here is a case of separation; a combination arises, and we believe ourselves now justified in applying to it the words 'Elective Affinity'; it really looks as if one relation had been deliberately chosen in preference to another.

—Goethe, from *Elective Affinities*

Use weight in parentheses (#) to calculate shipping charge.



Potting Soil

For purposes of comparison, 1 cu ft equals 25.73 qts.

Living Acres Germination Mix Compost, humus-peat and perlite, screened to 1/2". Sufficient fertility to keep most seedlings well-fed until transplanting. Made in Maine and well-liked by Maine growers. **MOFGA**

9057: 2 cu ft (50#)/\$19.00

9058: 10+ (50#)/\$18.00 each

Living Acres Light Mix Living Acres Germination Mix with added sphagnum moss and more perlite to produce a lighter mixture, screened to 1/4". Excellent for starting small seeds. Made in Maine. **MOFGA**

9061: 2 cu ft (50#)/\$19.00

9062: 10+ (50#)/\$18.00 each

Vermont Compost Potting Soil

Blended from mature compost, blond sphagnum, rock phosphate, gypsum, blood meal, crushed granite and vermiculite, these potting soils contain enough nutrients to carry most vegetable and flower starts to transplant without additional fertilizers. Both formulations are blended from ingredients acceptable for use in certified-organic crop production.

Fort V Widely used by growers who make soil blocks. Has good water retention and a long-lasting nutrient supply from the high proportion of compost in the mix.

9063: 20 qt (20#)/\$15.00

9064: 60 qt (60#)/\$32.00

9065: 10+ (60#)/\$31.00 each

Fort Lite Made with the ingredients above except contains perlite, less vermiculite and no granite. Recommended for cell-tray seedlings. Warms more quickly and drains better than Fort V. Might need additional fertilizing prior to transplanting.

9066: 20 qt (17#)/\$15.00

9067: 60 qt (50#)/\$32.00

9068: 10+ (50#)/\$31.00 each



Coir Blocks Biodegradable and environmentally sound substitute for peat moss. Compressed brick of coconut fibers (coir) that swells to eight or nine times its original size when placed in hot water. The fibers are quite short, but have excellent moisture retention capacity. Use in potting mixes or to add organic matter to your soil. Improves aeration and nutrient retention. Easy to store and ship. Coir has been commended by the Wildlife Conservation Society as ecologically sustainable and supporting good conservation. Three bricks make the equivalent of 1 cu ft (almost 26 quarts) of peat moss. **Nat'l List**

9071: 3 bricks (5#)/\$9.00

Garden & Orchard Fabrics

Trellis Plus 7" reach-through nylon mesh with a strand strength of 60 lb. for tomatoes, climbing beans, peas, cucumbers and luffas. Weave a strand of fence wire through the top for extra support. Will last for many years if you can avoid "the tangles"!

9074: 5x30' (1#)/\$12.00
9075: 5x60' (1#)/\$20.00

Orchard Netting Throw over trees or bushes and fasten to protect fruit or berries from birds, deer and possibly coons. Strong and durable black polypropylene 3/4" mesh with UV inhibitors. Available in three sizes, 7x20', 14x14' and 28x28'.

9077: 7x20' (1#)/\$7.50
9078: 14x14' (1#)/\$7.75
9079: 28x28' (2#)/\$30.00

Deer-X Protective Fencing Used as temporary fencing to protect plantings and fruit crops from deer, birds, and other pests. Also used as snow fencing or to prevent soil erosion. Same durable black polypropylene 3/4" mesh with UV inhibitors as orchard netting above. Available in two sizes, 7x100' and 14x75'.

9080: 7x100' (1#)/\$20.00
9081: 14x75' (2#)/\$30.00

Season Extenders

Embossed Black Plastic Mulch Eliminates pressure from weed competition and increases soil temperatures. Put down a few weeks before planting to allow the soil to soak up some heat. Embossed texture increases strength and minimizes tearing. Not very aesthetic but gets the job done. 1.25 mil. 4' wide.

9091: 4x50' (1#)/\$6.25
9092: 4x250' (5#)/\$25.00
9093: 4x2400' (50#)/\$175.00

IRT 100 Mulch Has the weed-suppressing qualities of black plastic and lets infrared light through to warm the soil beneath. For northern growers, IRT adds days to the growing season at both ends. Recommended for longer season crops and earlier ripening of late summer crops. Made of infrared transmitting plastic 1.0 mil. 4' wide.

9096: 4x50' (1#)/\$7.00
9097: 4x250' (5#)/\$27.50
9098: 4x2400' (50#)/\$200.00

Agribon+ AG-19 "The ultimate floating row cover." Think of row covers first when seeking pest protection. Protects crops from flea beetles, cabbage worms, potato beetles, leafhoppers, even woodchucks. Lightweight spunbonded polypropylene, with UV stabilization, weighs 0.55 oz/sq yd, transmits 85% of sunlight, offers 4° of frost protection. Soft and pliable with good tear resistance. Seams are warranted against premature separation. We stock 83" width, other widths and weights available, see our website for sizes and pricing.

9101: 83"x50' (2#)/\$12.00
9102: 83"x250' (10#)/\$50.00
9103: 83"x1000' (35#)/\$210.00
9104: 83"x2000' (70#)/\$415.00

Dupont 5131 Spunbonded polypropylene is very durable, yet will still let in light and water. Provides deer protection for overwintered crops. Used commercially as a winter row cover for strawberries and potted perennials. Our experience suggests a useful life of two to three years and 3-4" of frost protection. 1.25 oz/sq yd.

9116: 15x50' (5#)/\$65.00



Clear Slitted Plastic Row Cover Place over wire hoops to form small tunnels, creating a greenhouse environment to promote the growth of heat-loving plants. Self-venting on hot days. Offers a few degrees of frost protection. Can be reused with care. 1.1 mil. 6' wide.

9121: 6x50' (2#)/\$10.00
9122: 6x250' (10#)/\$40.00
9123: 6x1000' (40#)/\$145.00

Galvanized Wire Hoops For building tunnels with slitted plastic or other row covers. Most effective if spaced every 5'. "Hoops" are shipped as straight 74" flexible rods of 10-gauge wire. Installation couldn't be simpler: stick one end in the ground and then stick the other end in at the desired tunnel width to form a hoop.

9125: 20 (15#)/\$25.00
9126: 100 (40#)/\$90.00

Staples The garden is full of rocks except when you need some to anchor the row cover. 6" galvanized wire staples neatly hold down landscape fabrics of all kinds.

9127: bundle of 25 (1#)/\$5.00
9128: 100 (4#)/\$12.50
9129: 1000 (50#)/\$100.00

Dalen Season Starter formerly Wall o' Water Keep your seedlings warm and cozy. Plastic sleeves hold 3 gallons (24 lbs) of water which absorb heat from the sun during the day and release it slowly overnight keeping the plants warm even on frosty nights: protects to 16°. The plastic sleeves provide additional protection from the wind. With apologies to Will Shakespeare: A wall o' water by another name works as well. Package of 3.

9130: 3 (2#)/\$10.50

Repair Kit Extend the life of your Wall o' Water or Season Starter.

9132: (0#)/\$1.50

Taking Measure

LaMotte Model EL Garden

Kit Measures concentrations of nitrogen, phosphorus and potassium and tests soil pH. Kit contains enough reagent for fifteen NPK tests and for 30 pH tests. Comes with *LaMotte's Garden Guide Manual and Soil Handbook* to interpret test results. Refills available.

9142: (2#)/\$70.00

LaMotte pH Test Kit. Contains color chart and mixing plate and enough reagent for 100 tests. Compare the color of solution to the chart to determine pH. Indicates pH in increments of 1 from 4 to 8.

9143: (1#)/\$20.00

Refractometer Measures the Brix level (sugar content) of plants and fruits. The higher the Brix reading, the healthier and sweeter the plant and fruit. Take readings several times a day to monitor photosynthesis levels. Use to determine the effectiveness of feeding programs and to help diagnose and correct imbalances. Compensates for ambient temperature to ensure accurate readings on its analog "gunsight" scale.

9145: (1#)/\$120.00

Tru-Chek Rain Gauge Accurate wedge measures up to 6" of rainfall in increments as fine as 0.01". Comes with hardware for mounting on a post.

9151: (1#)/\$9.00

Indoor/Outdoor Max/Min Thermometer Battery-powered digital thermometer with large display for easy reading, retains maximum and minimum temperatures indoors and out until reset. We have been using one at home for many years; the first thing we do each morning is check the previous night's minimum both indoors and out. Watching the temperature read-out drop on cold nights compares quite favorably with television. A sensor on a thin wire goes out under a window and hangs from a post a few feet from the house. We change the one AAA battery about once a year when the display gets too dim to read.

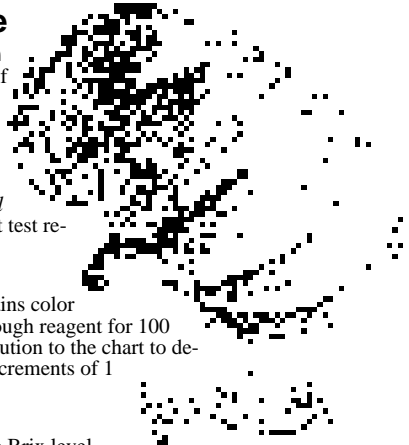
9152: (1#)/\$37.50

Soil Thermometer Bi-metal spring with needle dial on a 5" stainless steel probe for monitoring soil temperatures at planting depth. Gauge the optimum time for planting and avoid damping-off and other temperature-related problems.

9153: (1#)/\$12.00

Compost Thermometer 24" stainless steel probe is marked every 6". Ensure the proper "cooking" of your compost. Bi-metal spring, 2" needle dial registers from 50-190°.

9154: (1#)/\$25.00



Orchard Tools & Supplies

Use weight in parentheses (#) to calculate shipping charge.

Tree Guards Spiral plastic guards protect tree trunks from mice in the winter. Take them off during the growing season lest they provide a habitat for borers. 24" high. Use two or three guards for larger trees.

9201: bundle of 4 (2#)/\$7.50

Limb Spreaders Durable molded plastic spreaders help establish optimal crotch angles on young tree branches, encouraging stronger, healthier tree structure. Assorted sizes, between 6-18".

9202: package of 12 (1#)/\$12.50

Parafilm Grafting & Budding Tape Very stretchy 1/2" parafilm tape holds graft union firmly together. Unlike PVC, parafilm, a low-molecular-weight polyethylene product, is relatively benign in the environment. It also does not need to be cut off the tree because it decomposes and falls off on its own in one or two months. 90' roll.

9203: (0#)/\$2.00

PVC Grafting Tape Some grafters report that parafilm tape is not strong enough for larger grafts. PVC tape is much stronger than parafilm and will not break down. This makes it suitable for topworking.

Leave it on the tree until the graft is well established, then remove and put in the recycling bin. 1/2"x300'.

9204: (0#)/\$2.50

Treekote Grafting Sealer Water-soluble graft dressing emulsion. Dries quickly. Used extensively and successfully with any kind of grafting. (We do not recommend painting any compounds on pruning cuts or tree wounds.) Container with screw-on lid and attached brush applicator.

9205: (1#)/\$8.00

Victorinox Folding Grafting Knife A strong all-purpose knife, good for grafting or light pruning. 2 1/4" stainless steel blade folds into 3 1/2" alloy-lined black nylon handle.

9207: (0#)/\$18.00

Felco Tools

Imported from Jura, Switzerland, Felco tools set the standard for professional quality, precision and durability. Made with high-quality steel and forged metal alloys, they feature extensively researched ergonomic designs so they work well and last a lifetime. Easy to maintain or replace parts. We stock replacement parts for pruners and saws and can special-order parts for any Felco product.

Felco #6 Pruners Designed for a smaller hand, otherwise just like the heavy-duty Felco #8 pruners. Customer Anne Greensfelder, an occupational therapist specializing in hands, explained that most women who use the #8 can't open it all the way so don't get the full advantage of its leverage. Ideal for pruning grape vines, shrubs and young trees. The smaller size allows cuts closer to the stem. Right-handed.

9210: #6 right-handed (1#)/\$50.00

Felco #7 or #10 Pruners The handle that sits on one's fingers rotates to allow fingers to move naturally, reducing the fatigue and blistering brought on by a hard day's pruning. Requires less effort than conventional pruners. Replaceable blade. Right-handed #7, left-handed #10.

9208: #7 right-handed (1#)/\$70.00

9209: #10 left-handed (1#)/\$70.00

Felco #8 or #9 Pruners Classic handpruners: heavy-duty, lightweight, comfortable to hold. Excellent cutting action. Replaceable blades with sap groove and soft-wire cutter. Easy to adjust and sharpen. Right-handed #8, left-handed #9.

9211: #8 right-handed (1#)/\$55.00

9212: #9 left-handed (1#)/\$55.00

Felco Replacement Parts Those most commonly requested.

9213: Felco 8 replacement blade (0#)/\$14.00

9214: Felco 8 replacement anvil (0#)/\$14.00

9215: Felco 9 replacement blade (0#)/\$14.00

9216: Felco 8, 9 & 10 replacement spring (0#)/\$5.00

9217: Felco 6 replacement blade (0#)/\$12.00

9218: Felco 6 replacement anvil (0#)/\$14.00

9219: Felco 6 replacement spring (0#)/\$5.00

9220: Felco 7 replacement blade (0#)/\$14.00

9221: Felco 7 replacement anvil (0#)/\$14.00

9233: Felco 21 replacement blade (0#)/\$30.00

Orchard Ladders

Sturdy lightweight traditionally shaped wooden orchard ladders have wide bottoms for stability and narrow tops for easy handling and placement.

Contact the manufacturer directly:
Peter Baldwin
207-722-3654
baldwin@acadia.net

Felco #300 Flower Shear Useful for light pruning and cutting stems for arranging. Designed by Felco and manufactured in Italy with the same fine steel

of the more expensive Felco tools. A lightweight inexpensive introduction to this excellent line.

9230: #300 right-handed (1#)/\$15.00

Felco #310 Harvest Shear Fruit and vegetable harvesting shear, lightweight with narrower head for harvesting grapes and other produce. Felco design and steel, Italian manufacture.

9231: #310 right-handed (1#)/\$15.00

Felco #21 Lopper An excellent lopper with solid forged light-weight metal handles, 25" long capable of cutting branches up to 1 1/2" diameter. Comfortable to handle, easy to use. The danger is not knowing when to stop.

9232: (5#)/\$90.00

Felco #600 Folding Pruning Saw Japanese-style pull-action pruning saw with a locking blade that folds into the handle. The patented design of the blade, thicker at the bottom and thinner at the top, prevents clogging and binding, since only the teeth come in contact with the wood. Works well in tight places and cuts branches up to 4" in diameter. Overall saw length, 14"; blade length, 6"; weight, 4.9 oz.

9226: (1#)/\$30.00

Felco #610 Straight Pruning Saw Larger pruning saw with well-designed durable red plastic handle. 12 1/2" blade features the same patented Japanese design as the Felco #600 model, cuts very smoothly on the pull stroke. Hard chrome plating prevents rust. Easily cuts 9-10" limb. Saw comes with a plastic sheath. Saw's overall length is 19"; weight, 8.2 oz.

9228: (2#)/\$55.00

Felco Saw Replacement Blades

9227: Felco 600 blade (1#)/\$25.00

9229: Felco 610 blade (1#)/\$35.00

Shear Case for Felco pruners or shears. Heavy leather case you can clip on over belt, waistband or pocket. Molds itself to the shape of your pruner.

9222: (1#)/\$11.00

Felco Sharpener Composite steel blade with two precision edges hones and imparts the correct cutting angle in the same stroke. Hold sharpener at a 30-50° to your knife or pruner blade and pull across with light pressure two or three times. That's all it takes. Sharpen only one side of the pruner blade. Replaces the Felco stone.

9223: (1#)/\$18.00

Felco Lubricant Lightweight synthetic non-stick formula does not get resinous with age or oxidation. Developed for cleaning gardening and workshop tools. Provides an effective waterproof coating and protects against corrosion. Coat your tools when putting them away for the winter and extend their lives.

9224: (1#)/\$15.00

Felco Pruner Grease High-quality grease prevents corrosion and keeps parts moving freely. Clean your pruners regularly with

Felco Lubricant (#9224) then coat the moving parts with Felco Pruner Grease to keep your tools in prime working order.

9225: (1#)/\$12.00

Felco 50 Hoof Shears Developed with the assistance of sheep breeders, these cutters are also great for trimming goat hooves and llama or alpaca toenails. Easy handling and cutting performance saves time and effort. Light alloy handles act as an extension of your arm and the xylan-coated blades resist rust and ensure hygiene. **NEW!**

9234: right-handed (2#)/\$55.00

Orchard Tools, continued

Wheeler Pruning Saw John Bunker says, "Although not well known outside the orchard trade, this is the best all-around pruning saw there is. I never prune a tree without it. Looks like a hacksaw and cuts like a sharp knife through soft butter. I can use it for hours and never get tired. It hangs on your arm as you monkey your way around trees. The blade can be installed to cut on the pull or push stroke. I prefer the pull. For a serious pruner, the combination of the Wheeler saw and the Felco #600 saw is unbeatable." Wooden handle, arched metal frame. 10 teeth/inch. Blade length, 14"; total saw length, 16"; weight, 11.5 oz.

9236: (1#)/\$35.00

Wheeler Pruning Saw Replacement Blades No matter how good the blade is, it prunes only 50 full-sized trees. Keep your saw in shape with spare blades. Bundle of three.

9237: 3 (0#)/\$18.00

Diafold Double-Sided Folding Sharpener A plastic clamshell handle encloses a two-sided 4" whetstone of diamond crystals embedded in nickel and permanently bonded to a flat steel surface. Two grits for the price of one. Coarse quickly puts a razor edge on dull or damaged tools, perfect for pruners, knives and other cutting tools. Extra-coarse for garden tools, axes, mauls and for manual grinding. Use wet or dry, never loses its flatness. Clean and dry it after each use and it will last for years.

9238: (0#)/\$35.00

Diafold Folding Flat File Same diamond surface as the coarse grit above but thinner and tapered to get into the narrow spaces. Clamshell case for storage. John Bunker, a keen judge of tools, strongly recommended that we carry these.

9239: (0#)/\$25.00

Fruit Harvester Vinyl-coated steel wire basket on a pole for harvesting fruit without a ladder. Wire teeth rake fruit into basket. Foam cushion pad prevents bruising. Two 4' wooden poles screw together to make an 8' handle.

9240: (5#)/\$25.00

Garden Tools & Equipment

OTC Bypass Pruners Cut garlic scapes, harvest tomatoes, greens and herbs. A lightweight inexpensive harvest shear to use in the garden. The low cost should help alleviate the worry that your shears got left behind in the garden alone, rusting and forlorn. NEW!

9235: right-handed (2#)/\$10.00

Broccoli Knife Specialized trapezoidal shape with two cutting edges slices plants off at ground level for clean quick harvesting or nips sideshoots for continued growth. Stainless steel blade has high carbon content for easy sharpening. Plastic handle.

9241: (1#)/\$7.25

Weeding Knife or Hori-Hori Someone using heavy equipment could bend this digging tool, but no amount of prying in the garden will. Thick concave steel blade with bevelled edges tapering to a point, one semi-sharp smooth edge and one serrated edge. The blade extends 2 1/2" into the wooden handle to which it is securely riveted. Susan and David's favorite handtool, still in good condition after 15 years of hard use. Originally designed to extricate plants for bonsai from Japan's mountains, this is the perfect tool for prying out taprooted weeds and knocking soil from sods and weed clumps. Good for use as a narrow trowel, for general cultivating and sawing small roots or heavy stems, though not as sharp as a knife or a saw. Comes with a black vinyl sheath with a belt loop. 6 1/2" blade, 11 1/4" long overall.

9242: (1#)/\$27.50

EZ Digger Unique plow-shaped design from Korea, where it is called *Ho-Mi* (little ground spear), features a 7" long 3" wide convex blade tapering to a pointed end, which is great for removing deep roots and sod and for cultivating soil. The convex edge is used for light surface weeding and redistribution of soil. Makes cultivating around trees and in the garden a joy. John Bunker keeps one in his back pocket whenever he's in the orchard or garden and every apprentice at Super Chilly Farm receives an EZ Digger upon arrival. Designed for right-handers, but many lefties enjoy using one. If the handle comes loose, reinsert blade tang and rap handle forcibly on a hard surface to reset it.

9243: (1#)/\$14.00

Use weight in parentheses (#) to calculate shipping charge.

Cobra-Head Weeder Sharp

diamond-shaped cutting head, 1x2", on curved stalk, weeds, cultivates, digs, furrows, harvests, pulls through the sub-soil grabbing root clumps and grass runners without disturbing nearby plants. Good for rooting out quack-grass, that perennial invader. Cutting head and neck are one piece of forged knife-quality steel in a handle of recycled plastic which fits my large hand comfortably. Use a fine stone or file to sharpen edge and keep clean and oiled as steel will rust. Total height is 13", weight 9 oz.

9244: (1#)/\$22.50

Soil & Seed Sieve Set A 12" diameter stainless steel frame with 3 interchangeable screens of 4, 5 and 10 mesh/inch. Use to prepare potting mix and seed beds, or to screen compost before adding it to the garden. Or use for seed cleaning: the screens singly or together can hold up seed while the chaff drops out or *vice versa*.

9245: (2#)/\$25.00

Eco-Spout Turns used plastic containers into watering cans. Adapter fits 1-gallon and half-gallon plastic jugs, and 2-liter soda bottles. The manufacturer promotes them with the slogan "Never throw away a plastic jug again!" Good idea, but even after buying an Eco-Spout or two, you'll still need to recycle. Comes with both a spout and sprinkler attachment which snap on to the adapter. Reuse, recycle and rejoice.

9246: (0#)/\$3.00

Hudson Sprayers

Adjutant Duster Dusts plants with insecticides and fungicides efficiently, leaving the coverage on the leaves. Old-fashioned pump action sprayer, as seen in so many of the ads Theodor Seuss Geisel drew for Flits. Spreads dust evenly and thoroughly; long extension with deflector shield allows one to reach under the plant and dust leaf undersides as well. Tinned steel construction, holds up to 1 lb. Wear a dust mask and use with our sulfur dust, diatomaceous earth and other light powders. Made in China. NEW!

9250: with deflector (3#)/\$22.00

Backpack Sprayer Hudson's professional model for farm and small orchard has a 4-gallon sturdy polypropylene tank. Padded non-water-absorbent carrying system with waist strap. Can be set up for either right- or left-hand use. Nickel-plated brass fittings and heavy-duty chemical-resistant hoses for long life and easy use. Equipped with a removable controlled-flow valve to provide a steady spray at 21 psi for even, economical application. Made in the USA.

9251: (15#)/\$140.00

Hand-held Sprayer 2.5-gallon tank makes this Hudson top-of-the-line sprayer ideal for heavy use in a small farm setting. A few strokes build up working pressure and the occasional pump keeps the spray going. Removable controlled-flow valve provides a steady spray at 14.5 psi. Heavy-duty pressure-molded polyethylene tank is lightweight and extremely durable. Made in the USA.

9252: (10#)/\$75.00

Planter Mist This 1.25-liter pump sprayer is an excellent choice for indoor or outdoor use. A few strokes of the pump build up enough pressure to mist your seedlings and still keep the cat off the table. Holds pressure for days. Adjusts easily from a fine

Looking for scythes?
We recommend you contact:
Scythe Supply
496 Shore Road
Perry ME 04667
207-853-4750
www.scythesupply.com
They have a complete line of kits, snaths, blades and good advice.

mist to a spray to a thin stream, and the nozzle unscrews for cleaning. The opening is large enough to fill easily and the body is sturdy polyethylene. Made in China.

9253: (1#)/\$15.00

Flame Weeders

Flame weeding has been popular in Europe for over 50 years and was used in this country in corn and cotton fields before the introduction of herbicides. A brief burst from the 2000° flame heats the sap in the cell walls causing them to burst and

collapse; the plant wilts and dies a few days later. Especially effective on young annual and perennial weeds. Repeated flaming will eventually discourage persistent weeds so that they pull up roots and die. Or use the flame to kill the tops of potato plants to promote skin set before harvest, to melt ice, burn out web worms, or brown the tops of meringues and crèmes brûlées.

Backpack Weeder Aluminum frame backpack comes with 3-gallon fuel cylinder, 10' hose, regulator, sparker, 33" wand. Rated at 400,000 BTU/hr.
9255: (20#)/\$250.00

Weed Flamer Wand The same 33" wand, 10' hose, sparker and regulator as the Backpack weeder to attach to your own 3-gallon propane tank.
9256: (5#)/\$95.00

Squeeze Valve Adjustable valve allows you to set a minimal flow which increases as you squeeze the handle. Keep a pilot flame burning when moving from row to row. A good addition to either the backpack weeder or the wand.
9257: (2#)/\$55.00

Valley Oak Wheel Hoe

Built to last and to stand up to years of heavy use. Pneumatic tire provides easy travel. Tempered steel blade cuts weeds off 1/2" to 2" below the ground, cuts on both push and pull stroke. Weed close to your rows. As the manufacturer says, save the tiller for breaking ground and work with "no toxic fumes, and you can hear the birds while you hoe." Available in 5" or 8" cutting width. Wheel hoes are drop-shipped from the manufacturer in California; price includes shipping. Made in the USA. Contact us for information about replacement parts and other blade sizes.

Wheel Hoe 5" Oscillating Blade For narrow spaces, a favorite of onion growers.
9260: (0#)/\$330.00

Wheel Hoe 8" Oscillating Blade Works between rows.
9261: (0#)/\$330.00

Wheel Furrow Attachment Makes 4-6" drill for planting potatoes or irrigation.
9262: (0#)/\$55.00

4-tined Cultivator Attachment Great for breaking up compacted soil and preparing beds.
9263: (0#)/\$70.00

Earthway Seeder and Tools

Earthway Vegetable Seeder In one continuous operation the seeder opens the soil, spaces, plants and covers the seed, packs the soil, and marks the next row. Reliable performer for the large garden or small farm. Includes 6 seed plates: carrots, beans, corn, peas, radish, and beets. A real time-saver, especially for corn, beans and peas. Some folks yoke them together to plant several rows at once.
9265: (10#)/\$105.00

Fertilizer Attachment Easily attaches to Earthway Seeder for side-dressing plants. Fully adjustable to control application of all granulated fertilizers. Controls the amount of fertilizer spread, quickly paying for itself.
9266: (5#)/\$57.50

Optional Seed Plates Make your Earthway Seeder even more versatile. Package of five plates: brassicas, cucumber, popcorn, lima beans, and one for small seeds like rutabaga and lightly seeded lettuce, carrots and turnip.
9267: (0#)/\$22.50

Broadcast Spreader Spread seed or fertilizer evenly and accurately. This spreader has a zippered nylon bag, a shoulder strap and an enclosed gear box to keep dirt out of the die-cast zinc gears.
9268: (10#)/\$55.00

Earthway Garden Cultivator has a 24" steel wheel, solid oak handles, 5-tine cultivator, moldboard plow and twin end furrow plow. While not the plow that broke the plain, it will handle easily in any terrain. Use to prepare seed beds, cultivate between rows, plow weeds under and hill potatoes, leeks and celery.
9269: (30#)/\$115.00

Slicing Hoe Stirrup-hoe-shaped attachment for the Garden Cultivator slices weeds just below the surface, excellent for between-row cultivation.
9270: (4#)/\$17.00

Wheeleasey Canvas Wheelbarrow

Wouldn't it be nice to lay your wheelbarrow flush with the ground to load it?

The durable plastic fabric body allows you to do just that. Rake, roll or sweep your load into the bed, lift and go. Rolls easily on a pneumatic tire. Sturdy steel handles and wheel housing. Needs assembly, can be collapsed

for easy storage. Two sizes: Wheeleasey LE holds 150 lbs. and is 3' wide by 4' long, Wheeleasey holds 350 lbs. and is 4' wide by 5 1/2' long. **NEW!**

9258: Wheeleasey LE (15#)/\$90.00

9259: Wheeleasey (25#)/\$125.00

Smart Cart

We think the Smart Cart is the best garden cart on the market today. The cart weighs only 35 lbs and has a central balance point so that even when fully loaded it is easy to push or pull. Doesn't tip over backward.

The pan is made of high-density linear polyethylene impregnated with UV inhibitors to protect it from sun damage. The heavy plastic withstands a lot of abuse: we use the pans for mixing hundreds of pounds of seed at a time, stirring with a hoe. The pan easily snaps in and out of the tubular aluminum alloy frame and has no bolt holes so it's completely leakproof. Fedco Trees now owns five Smart Carts primarily for moving huge loads of wet sawdust. Trees coordinator Jen doesn't know how Trees would ever make do without them! Bria and Rob love theirs for hauling cut firewood out of the woods.

Assembly takes about half an hour; the parts fit beautifully. The Maine manufacturer offers a limited lifetime warranty on the frame and a five-year warranty on the pan, though under normal use the pan will last much longer. Spare parts are available from us.

Choice of two pan sizes: 7 cubic feet, total width 28" and length including handle 54 1/2"; or 12 cu ft, total width 33" and length including handle 56".

Choice of two wheel types: solid rims with 4" wide, 16.6" diameter tires, rated for 600 lbs; excellent for hauling heavy loads. Spoked wheels, with 2" wide, 20" diameter tires for loads up to 400 lbs, preferred for uneven terrain.

Cart can be picked up at our warehouse or be shipped directly to you from the manufacturer. For shipped carts, see chart below for the charge which is added to your order.

9271: 7 cu ft solid rims (see chart)/\$360.00

9272: 7 cu ft wire rims (see chart)/\$360.00

9273: 12 cu ft solid rims (see chart)/\$385.00

9274: 12 cu ft wire rims (see chart)/\$385.00

TOOLS

Extra shipping for Smart Carts:

zip code begins with:	7cu ft costs	12 cu ft costs
010-059	40.00	116.00
060-089, 100-139	42.00	118.00
140-309	45.00	120.00
310-584, 600-687	49.00	122.00
585-599, 688-768	53.00	125.00
769-961, 970-994	53.00	128.00

If your zip code doesn't fall into one of these ranges, we cannot ship you a Smart Cart.

Another opportunity for cooperation: two 12 cu ft Smart Carts will fit into one shipping box. We can ship two carts to one address for only an additional \$19.00.

Drip Irrigation

Use weight in parentheses (#) to calculate shipping charge.

Drip irrigation conserves water by applying it only where it is needed near the plants' roots so it neither evaporates nor causes mold problems. The drip method helps crops get over transplant shock and get established, and ensures adequate water supply until the rain comes. Also useful in greenhouses.

We recommend sketching your garden and proposed irrigation system before you order to ensure that you receive all the pieces you need. For help in designing your own system see the Organic Growers Supply web pages at fedcoseeds.com.

Starter & Expansion Kits

We offer two kinds of kits: garden row-crop kits equipped with T-tape low-flow drip tape for a uniform distribution of moisture along the tapes, and orchard-crop kits with spot emitters so you can choose the places where the water exudes.

Spigot-Connection Set - both Starter Kits (below) include all the following pieces necessary to connect to an outdoor spigot:

- 200 mesh drip filter
- 10 psi pressure regulator
- Vacuum breaker - prevents backflow into your water system
- Hose beginning - connects mainline to spigot or garden hose
- 2 mainline ends with screw caps - removable for flushing line
- 100' of 1/2" polyethylene mainline tubing
- Coupler - joins two pieces of mainline tubing
- 20 wire holddowns
- Manual punch - makes 1/4" holes to install emitters or drip tape
- 10 two-way plugs - fill holes if you move emitters or drip tape.

Garden Irrigation Starter Kit Includes the Spigot-Connection Set (above) and 200' of low-flow T-tape-brand drip tape, 10 T-tape fittings which plug into the mainline, 10 sleeve ends to seal the end of a line of T-tape, and 2 couplers to repair breaks or tears in the T-tape line.

9275: (10#)/\$90.00

Garden Irrigation Expansion Kit Includes everything in the garden starter kit except the Spigot-Connection Set. Gives you another 200' of irrigation.

9276: (5#)/\$25.00

Orchard Crop Irrigation Starter Kit The recommended spacing for newly planted trees and bushes varies from 2' for raspberries to 25-30' for apples. Use one or two emitters per plant depending on size. The kit contains the Spigot-Connection Set (above) and 200' of 1/2" line, 20 2gph spot emitters, 10 additional two-way plugs, 3 T-couplers, 3 L-couplers, and 6 mainline ends.

9277: (15#)/\$120.00

Orchard Irrigation Expansion Kit Includes everything in the orchard starter kit except the Spigot-Connection Set.

9278: (10#)/\$55.00

Extra Starter Kit Components

200 Mesh Drip Filter

9280: (0#)/\$18.00

Vacuum Breaker

9281: (0#)/\$4.00

10 psi Pressure Regulator

9282: (0#)/\$10.00

See the Organic Growers Supply link at www.fedcoseeds.com for information about putting a kit together and sketches to help you design a system.

Mainline & Couplings

1/2" Mainline Tubing for additional mainlines. Available in 100', 200' and 1000' rolls.

9283: 100' (5#)/\$22.00

9284: 200' (10#)/\$39.00

9285: 1000' (40#)/\$180.00

Smart Loc Hose Beginning connects 1/2" mainline to garden hose or faucet.

9286: (0#)/\$1.50

Smart Loc Hose Beginning Cap screws into a hose beginning after it's removed from the spigot. Caps the line, keeping bugs and dirt out.

9287: (0#)/\$1.50

Smart Loc Hose End with Cap closes off the mainline. Cap is removable to flush the line or to add another piece.

9288: (0#)/\$1.25

Figure-8 Mainline End Easy way to close off a run of mainline. Just loop the end through the first hole, into the second and pull it tight. Simple to slip on and off. Package of 5.

9289: 5 (0#)/\$1.25

Coupler to repair breaks in mainline or to add additional lengths. Always have a few on hand. Package of 3.

9290: 3 (0#)/\$2.50

T-Coupler to add an additional line anywhere in the mainline.

9291: (0#)/\$1.25

L-Coupler to turn a 90° corner in the mainline.

9292: (0#)/\$1.00

Smart Loc Hose Elbow Hose beginning for use in tight situations where there isn't room for a straight fitting.

9293: (0#)/\$2.00

Smart Loc Tee with Hose Beginning

Use where there are two mainlines running in different directions connected to one hose.

9294: (0#)/\$2.50

1/2" Smart Loc Valve w/Shut Off Insert into the mainline to direct the water flow.

9295: (0#)/\$3.00

Drip Tape & Couplings

T-tape 10 mil low-flow drip tape drips every 8", rated at 20 gph/100'. In 100', 200', 1000' and 6000' rolls.

9296: 100' (3#)/\$8.00

9297: 200' (5#)/\$14.00

9298: 1000' (10#)/\$60.00

9299: 6000' (50#)/\$300.00

T-tape Fittings and Sleeve Ends Fitting connects T-tape to mainline; sleeve end closes off the T-tape line. Package contains 5 of each.

9300: 5 (0#)/\$7.50

T-tape Fittings Barb end fits into mainline and connects T-tape line. Package of 5.

9301: 5 (0#)/\$5.00

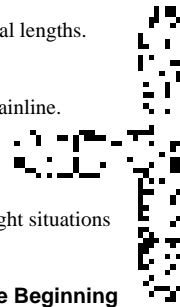
T-Tape Sleeve Ends Feed T-tape end through the two slits and pull snug to seal end of line. Package of 5.

9302: 5 (0#)/\$3.00

T-tape Coupler for repairing damaged pieces of T-tape or adding length. Keep a few on hand.

9305: (0#)/\$1.25

TOOLS



Tape Loc Barb with Valve Allows you to shut off the water to one drip tape.

9306: (0#)/\$3.00

Tape Loc Elbow T-tape will not go around a 90° corner, so use this elbow for sharp turns in your drip tape line.

9308: (0#)/\$2.75

Tape Loc Tee Send an off-shoot from a T-tape dripline.

9309: (0#)/\$3.00

Tape Loc with Hose End Instead of the sleeve ends, use this fitting at the end of a drip tape line to be able to flush out the line.

9310: (0#)/\$1.75

Tape Loc Row Connector 2' of 1/4" line with a barb fitting at one end and drip tape connector at the other for installing drip lines in raised beds.

9311: (0#)/\$3.00

Spot Emitters & Connectors

Emitters 2-gph pressure-compensating spot emitters provide uniform flow the length of the line. Package of 10.

9312: 10 (0#)/\$7.00

1/4" Line with Barb Connector Plug the barbed end into the mainline and an emitter into the end of the 3' line. Place the spot emitters around the base of your trees and shrubs to water a wider area. Package of 5.

9313: 5 (0#)/\$3.00

Handy Extras

Two-way Plugs for patching emitter holes as you change your setup. Bundle of 100.

9314: 100 (0#)/\$6.75

Miracle Punch with spring loaded handles, works like a staple gun. Set tubing in the U-shaped channel and squeeze handles until you hear the pop. Much easier to use than manual punch.

9316: (1#)/\$24.00

Hose Y-spigot with Valves Split your faucet at your hose outlet so that you can use the spigot with your drip irrigation in place. Brass fittings for long life.

9318: (2#)/\$12.00

Digital Irrigation Timer We should never encourage mindlessness, but now you can attach this to your drip irrigation and "set it and forget it." Program up to four different sessions for duration, day of the week, and start time. Or bypass the timer to water whenever you please. Battery operated, needs one 9-volt battery which is not included. Has low-battery indicator light. Be sure to protect from freezing. **NEW!**

9324: (2#)/\$45.00

EZ-Flo Fertilizer Injector Use your drip-irrigation system to fertilize right at the roots of your plants. Fill the tank with either

solid or liquid fertilizers. Be sure to attach a vacuum breaker (#9281) to prevent any backflow into your water supply. Requires a flow of 120 gph to provide sufficient pressure to incorporate the fertilizer. If your rate of flow is lower than that, you can use the EZ-Flow Coupler (#9327 below) to provide adequate pressure. Two sizes: 3/4 gallon tank and 3 gallon tank. **NEW!**

9325: (5#)/\$45.00

9326: (15#)/\$90.00

EZ-Flo Coupler with ball valve works to restrict waterflow to increase water pressure, much like putting your thumb over the end of a hose to make the spray go harder and further. It will take a bit of tinkering to find the proper setting but once you do it is easy to mark the valve for the proper adjustment. **NEW!**

9327: (2#)/\$30.00

Wire Holddowns anchor your drip irrigation system. Bundle of 20.

9328: (0#)/\$6.00

Keeping Control

Tanglefoot A very sticky substance made of castor oil, natural gum resins and vegetable waxes. Apply around tree trunks to prevent climbing insects from reaching foliage, buds and fruit. 15 oz. spreads a 2-3" band over 14'. **OMRI**

9329: (1#)/\$9.00

Tangletrap All-weather adhesive used to coat red balls for monitoring and trapping insect populations. Sticky and odorless coating. 15 oz. covers 4 square feet which our staff geometer calculates will coat at least 13 red ball traps. **OMRI**

9330: (1#)/\$9.00

Red Ball Trap Use to monitor and trap insects, including apple maggot fly and cherry fruit fly. Sturdy 3 1/2" reusable hollow glossy red plastic ball with hook and wire for hanging. Use one red ball to monitor 2-3 acres. To significantly reduce apple maggot damage in home orchards, hang one to six traps per tree, depending on tree size. Coat traps with Tangletrap and hang about eye-level with 12-16" of clearance between them and any foliage so insects can get a good look at them.

To remove Tangletrap, scrape off as much as possible using a blunt scraper and wiping with a paper towel or rag after each swipe. Then massage in mineral spirits, baby oil or CitraSolv with a cloth and wipe off. **Nat'l List**

9331: (1#)/\$6.00

Apple Maggot Lure Apple essence lure for use with red ball traps. Works up to 12 weeks to attract apple maggot flies. Adheres to trap. **Nat'l List**

9332: (0#)/\$2.75

Pheromone Wing Trap Disposable but re-useable "wing" trap to attract and trap insects on trap's sticky bottom. Use with codling moth lure (sold separately) for monitoring pest populations. Hang one trap per acre at least two weeks before bud break. Comes with one disposable sticky bottom (replacements also sold separately). Wire hanger and instructions included. **Nat'l List**

9333: (0#)/\$5.00

Replacement Sticky Bottom for Wing Trap A square replacement bottom, sticky on one side, for use in wing traps. Remove old insect-covered bottom and fit in new one.

9334: (0#)/\$2.25

Codling Moth Lure Time-release pheromone enclosed in a special membrane. Use with pheromone wing trap. Store in refrigerator. Replace every 4-12 weeks. Lure is self-adhesive. **Nat'l List**

9335: (0#)/\$5.00

Yellow Sticky Strips Used for monitoring pests such as aphids, cucumber beetles, fungus gnats, corn root worms or whiteflies. Use with ammonium bait enhancers (#9937) to attract and monitor apple and blueberry maggots. Pack of 10 with wires for hanging.

9336: bundle of 10 (0#)/\$14.00

Ammonium Bait Enhancer Hang with yellow sticky strips to lure insects of the *Rhagoletis* genus, the maggot flies. Lure has a 1-2 week field-life. **Nat'l List**

9337: (0#)/\$1.50

Bird-Scaring Balloon Invented and widely used in Japan, this balloon has multi-colored stripes around a metallic eye. Successfully tested against some of Maine's toughest crows! If you've got too much corn to cover with row cover, this is a good alternative. Most effective if moved around the garden from time to time. Protects a 15-20' radius.

9338: (0#)/\$8.00

Birdscare Flash Tape Silver and red metalized 7/16"x290' plastic tape is a cost-effective method to protect crops against bird damage. Suspend tape in a loose spiral above the crop. Wind causes tape to flash and flicker resembling fire. Very effective against flocking birds and crows, less so against robins, sparrows and their ilk. Don't apply too

early or birds may get accustomed to tape.

9339: (0#)/\$6.00

Bird-Scaring Balloon and Birdscare Flash Tape Combo Keep the birds off balance.

9340: (0#)/\$13.00

Bat House This sturdy rustic pine bat house comes fully assembled and ready to mount. Made in Maine and designed according to the latest ideas in bat-house architecture with a single $3/4 \times 6 \frac{1}{2} \times 17 \frac{1}{2}$ " dwelling area. A cozy space for the bats to spend their days resting after a long night of eating your mosquitoes. For more information on bats and how to attract them, go to www.batcon.org or write to Bat Conservation International, PO Box 162603, Austin, TX 78716.

9341: (3#)/\$16.00

Bird House Kit Attract eastern bluebirds or tree swallows to your yard or garden. Bluebirds are voracious insect eaters, but choosy about nesting areas, preferring a hollow tree at the edge of a field. Development has destroyed many nesting areas, and starlings, a non-native species, migrate here a few weeks before the bluebirds and often take the best spots. The opening on this bird house is too small for starlings. The entrance is thickened to stop predators from reaching in. Designed according to the specifications and recommendations of the Maine Audubon Society and the Cornell Lab of Ornithology. Side opening for easy cleaning. Made in Maine. Requires assembly. Nails and instructions included.

9342: (3#)/\$12.00

Nesting Block for Bees Designed for our native mason and leaf-cutting bees, important pollinators of blueberry fields and orchards. These solitary bees lay their eggs in any available tunnels and populations are limited by the number of available sites. Set the blocks out on stakes or on tree trunks along the edges of fields and orchards from mid-March to late April. Made in Maine after a design from the Cooperative Extension Service, each block contains 14 nesting sites. For more information request fact sheet #301 (Bulletin 7153) from the University of Maine Cooperative Extension, www.umext.maine.edu/.

9343: (2#)/\$10.00

Hemp Twine Waxed hemp twine. Cut down vines along with their twine and compost the whole tangle. Promote the rediscovery of hemp as a great fiber plant at the same time! Two sizes, 48# test, to tie up plants and mark rows, and 170# test, strong enough for trellises and hop fences. Sold by weight; lengths are approximate.

9344: 48# test/100 grams/200' (1#)/\$5.50

9345: 170# test/250 grams/110' (2#)/\$8.00

Who's Who in the Garden World

Wooden Pot Labels Untreated $6 \times 3/4$ " wooden sticks for labeling seedlings. Made in Maine.

9346: bundle of 50 (0#)/\$3.00

9347: box of 1000 (5#)/\$30.00

Treated Wooden Garden Stakes Treated with non-toxic white paint, these have been the official stakes in Fedco variety trials for the past 12 years. At the end of the summer, names stand out clearly and the stakes show little deterioration, even where they have been in contact with the soil. $12 \times 1 \frac{1}{8}$ ". Made in Maine.

9348: bundle of 25 (0#)/\$6.00

9349: box of 250 (8#)/\$45.00

Field Stakes You won't lose this variety marker in the undergrowth. Longer and thicker than the garden stakes, these untreated field markers are easy to spot in the thickest bean bushes. $18 \times 1 \frac{1}{4} \times 1/4$ ". Made in Maine.

9351: bundle of 25 (2#)/\$13.00

9352: 100 (10#)/\$50.00

Cap Style Plant Markers Zinc-coated nameplates on galvanized steel legs provide permanent outdoor labeling. $10 \frac{1}{2}$ " tall with a $7/8 \times 2 \frac{1}{2}$ " nameplate. Comes with marking pencil.

9359: bundle of 25 (1#)/\$12.50

9360: 100 (5#)/\$50.00

Aluminum Label Tags Permanent all-weather tags with wires, especially for labeling trees. Can write on both sides. A must for accurate record-keeping.

9362: bundle of 25 (0#)/\$5.00

Chisel Point Marking Pen Great for writing on garden stakes. Writing will remain clearly visible throughout the season. Black Marks-A-Lot chisel point permanent marker.

9363: (0#)/\$1.40

Fine Point Marker Just the right size for writing on wooden pot labels. Permanent ink won't fade when plants are watered. Black Sharpie.

9364: (0#)/\$1.40

Saving Seeds & the Harvest

Silica Gel Create your own Sahara. Blue beads of silica gel—easier to use than the crystalline form—for drying seeds or flowers. Place seeds in an airtight container with gel to reduce moisture to 5%, the optimal moisture content for long-term storage. Beads turn pink as they absorb water. Reusable, simply heat the beads in oven or microwave until they turn blue. Store in an airtight container when not in use.

9367: 3 oz (0#)/\$4.50

9368: 1 lb (1#)/\$16.00

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.

9371: $3 \frac{1}{4} \times 4 \frac{3}{4}$ " bundle of 10 (0#)/\$2.25

9373: $3 \frac{3}{8} \times 5 \frac{1}{2}$ " bundle of 10 (0#)/\$2.50

Potato Bags Heavy paper bags for storing or marketing your own spuds. To avoid moisture build-up, 5 and 20# sizes have a mesh vent in front and 50# size has punched airholes.

9374: 5# bag bundle of 5 (1#)/\$1.25

9375: 20# bag bundle of 5 (1#)/\$2.35

9376: 50# bag bundle of 3 (1#)/\$2.50

Burlap Bag Untreated, holds 50 lbs of potatoes.

9377: bundle of 3 (1#)/\$5.25

Rubber Bands 1# pkg. These are #64 size, $1/4 \times 3 \frac{1}{2}$ ", approximately 460 per lb. Useful for bunching broccoli, dried flowers, carrots, beets, scallions for market.

9379: (1#)/\$6.00

Harvest Baskets Old-time wooden lath and wire baskets in bushel, half-bushel, peck and half-peck sizes. Crude but effective. We sell hundreds every year at the Common Ground Fair. Bushels and half-bushels have two wire loops for handles, pecks and half-pecks have wire bails with a wood handle. The half-pecks fascinate small children. Made in PA. Bundle of 3 baskets.

9380: Bushel Baskets 3 (10#)/\$15.00

9381: Half-bushel Baskets 3 (10#)/\$14.50

9382: Peck Baskets 3 (5#)/\$14.00

9383: Half-peck Baskets 3 (3#)/\$13.50

Produce Boxes Foodgrade waxed cardboard, the leafy greens box is a lighter weight than the other two. NEW!

Leafy Greens box $1 \frac{1}{9}$ bushel.

9387: bundle of 10 (20#)/\$35.00

Produce box $1 \frac{1}{9}$ bushel capacity.

9388: bundle of 10 (20#)/\$25.00

Produce box $1/2$ bushel capacity.

9389: bundle of 15 (20#)/\$27.50

Plastic Produce Bags printed with the recommendation to eat 5 servings of vegetables a day. NEW!

9392: 10×15 " 2000 on a roll (20#)/\$50.00

9394: 12×20 " 1000 on a roll (20#)/\$52.50

Mesh Produce Bags with a 10 lb. capacity. NEW!

9390: bundle of 50 (1#)/\$10.00

9391: bundle of 1000 (20#)/\$200.00

Cardboard Berry Boxes Classic green berry boxes in $1/2$ pint, pint and quart sizes. NEW!

9395: half-pints 50 (2#)/\$9.00

9396: half-pints 600 (50#)/\$80.00

9397: pints 50 (2#)/\$8.00

9398: pints 600 (50#)/\$75.00

9399: quarts 50 (2#)/\$10.00

9400: quarts 250 (35#)/\$40.00

Garden Garb

Use weight in parentheses (#) to calculate shipping charge.

Womanswork Pigskin Gloves for Women and Men

Well-made work gloves protect Susan's hands working with firewood, rocks, roses and barbed wire. Women's sizes are designed specially to fit women which makes a world of difference in comfort. Elizabeth finds the snug fit invaluable when slipping her hands out from under the twine of hay bales. Moderately warm, last for about two years of hard wear. Made of topgrain pigskin leather brushed to a suede finish for softness, extra padding in the palm for comfort and protection. We now carry men's sizes, also designed specially for a man's hand. To size all gloves, measure around your knuckles, excluding your thumb.

9401: woman's small 6-6½" (0#)/\$30.00

9402: woman's medium 7-7½" (0#)/\$30.00

9403: woman's large 8-8½" (0#)/\$30.00

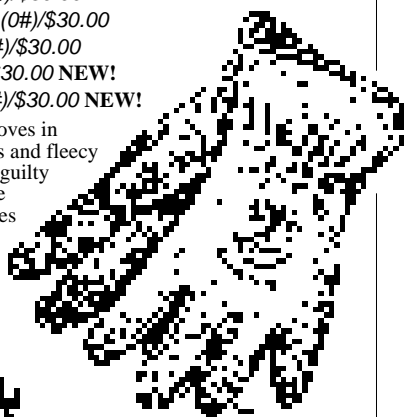
9414: man's large 8-8½" (0#)/\$30.00 NEW!

9415: man's extra-large 9"+ (0#)/\$30.00 NEW!

Kidswork Gloves Sturdy cotton gloves in children's sizes with reinforced palms and fleecy cotton insides. Now you needn't feel guilty about sending the little ones out to the woodpile in a pair of mom's old gloves fingers flopping, cuffs flapping, scarring them for life. NEW!

9416: 3-5 yrs. (0#)/\$10.00

9417: 6-9 yrs. (0#)/\$10.00



Mud Gloves

100% cotton knit gloves coated with durable green latex. Very flexible; partially uncoated back for better ventilation. A real hit in the warehouse for handling trees and perennial plants. Gene's favorite gloves. Good protection in any wet muddy situation, mosquito proof. Excellent in the cold with wool or silk liners. Double-knit cuff. Cut to fit both men and women. Unisex sizes: Small (7" around knuckles), Medium (8"), Large (9").

9405: sm 7" (0#)/\$8.50

9406: med 8" (0#)/\$8.50

9407: lg 9" (0#)/\$8.50

9408: for children 4 to 8 yrs. (0#)/\$8.00 NEW!

Nitri-Flex Lite Gloves Snug-fitting knit poly-nylon shell is dipped in green nitrile, a marvelously gripping soft rubber that latex-sensitive people can use. Snug fit and tacky surface preserve dexterity. Backs are partly uncoated to improve ventilation. The rubber does not completely cover the backs of the fingers so your hands get wetter (therefore colder) in wet situations than they do with the more completely coated Mud Gloves. Roberta, who doesn't usually wear gloves, wears these for gardening, carpentry and masonry. Joanna loves them for sailing and observes that blackflies cannot bite through them but mosquitos can. Machine washable. Unisex sizes: Extra-small (6" around knuckles), Small (7"), Medium (8"), Large (9"). If in doubt, order the smaller size.

9409: xs 6" (0#)/\$10.00

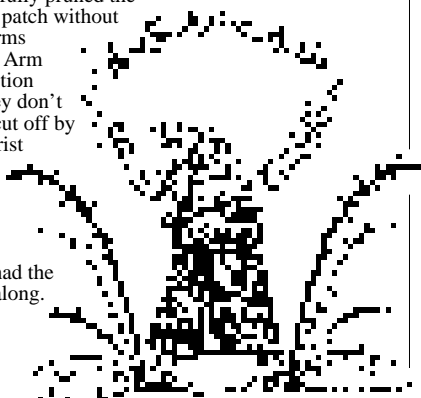
9410: sm 7" (0#)/\$10.00

9411: med 8" (0#)/\$10.00

9412: lg 9" (0#)/\$10.00

Arm Guards Slipped over your forearms and gloves the heavy close-woven canvas protects you from the unkind cuts of rose thorns, thistle spines and other prickly peril. Staffer Carol Doyle reports that the pair she tested "work wonderfully!" She successfully pruned the nastiest portion of her blackberry patch without getting her shirt snagged or her arms scratched. She further praised the Arm Guards for not restricting arm motion "and they are loose enough so they don't feel as if the circulation is being cut off by something too tight around the wrist and elbow. I'll be glad to get the berry bushes cleaned up this year!" Perhaps what set Prince Charming apart from all the unfortunate suitors who tried to wake Sleeping Beauty is that he had the foresight to bring a pair of these along. One size. NEW!

9418: (1#)/\$11.00



Bug Baffler Clothing

What is the one sure sign that spring is really here and it's time to set out the transplants? Blackflies. You can put on the old long-sleeved white shirt, button it up to your neck, turn the collar up, put rubber bands

around the cuffs and dip your favorite cap in motor oil; or you can

slip on one of these headnets or shirts with headnet and work in complete comfort, smug in the knowledge that there will be no flies on you today. Lightweight roomy garments made of fine-mesh olive-green nylon keep the bugs off, allow breezes in and make the outdoors liveable again with chemical-free insect protection.

Shirt Generously cut one-piece garment with permanently attached roomy headnet has zipper across the front neck seam for access to your face. Headnet is black so you can see through it better. Elastic band at hips. Sleeves have stretch knit cuffs to fit securely but not uncomfortably. Best worn with a hat inside the headnet. Small women may find a better fit with the child's size.

9419: child's med (0#)/\$30.00

9420: adult s/m (0#)/\$35.00

9421: adult l/xl (0#)/\$35.00

Pants For those days when it's too hot to wear pants, your comfort is limited only by your sense of modesty. Mesh nylon pants have elastic waist with snap adjustments to take up the slack and stretch knit cuffs.

9423: adult s/m (0#)/\$30.00

9424: adult l/xl (0#)/\$30.00

Headnet Patented hood design allows plenty of room for a hat and seamless construction permits unobstructed vision through black net. Elastic bands slip under arms to hold the hood securely in place. Perfect for bee observation. One size.

9425: (0#)/\$8.00

Ankle Guards No need to wear your pants tucked into your socks—mesh ankle guards have stretch knit band at the ankle and elastic band at the calf to keep ticks and blackflies off your socks and legs. Pull over socks before putting shoes on, then roll up your calf, over your pantlegs. One size.

9426: (0#)/\$8.00

Fedco Cap Whether you are hangin' with the boyz in the 'hood or toiling in the vineyards of the lord, nothing says style like a Fedco cap. Cotton with adjustable headband and the classic Co-op Seedpackers logo. We'll pick the color because Fedco knows what you want.

9440: our choice of color (0#)/\$15.00

T-shirt What a combination! John Bunker illustrates Mark Twain on this unbleached 100% cotton crewneck. Ecru shirt has black design highlighted by red apples. Printed in Maine.

9442: medium (0#)/\$15.00

9443: large (0#)/\$15.00

9444: extra-large (0#)/\$15.00

Aid and Comfort

Bygone Bugz Insect Repellent From Lakon Herbals in Vermont, who test it "in swampy and infested areas." Compounded of essential oils of rosemary, peppermint, geranium, sweet birch, and eucalyptus, with rose hip seed oil in a cold-pressed sunflower oil base. Rated by *Natural Health* as one of the most effective natural outdoor formulas. With its pleasing aroma, it can double as an herbal massage for sore muscles. Safe for pregnant women and children, does not contain pennyroyal or citronella.

9502: 2 oz (0#)/\$6.00

Avena Botanicals Heal-All Salve Soothe your garden-roughened hands with this salve made from comfrey root, calendula, St. Johnswort flowers, alfalfa, basil, borage, red clover, plantain, olive oil, beeswax, self-heal flower essence and balm of Gilead bud extract. Tin with pop-off lid.

9503: 1 oz (0#)/\$7.50

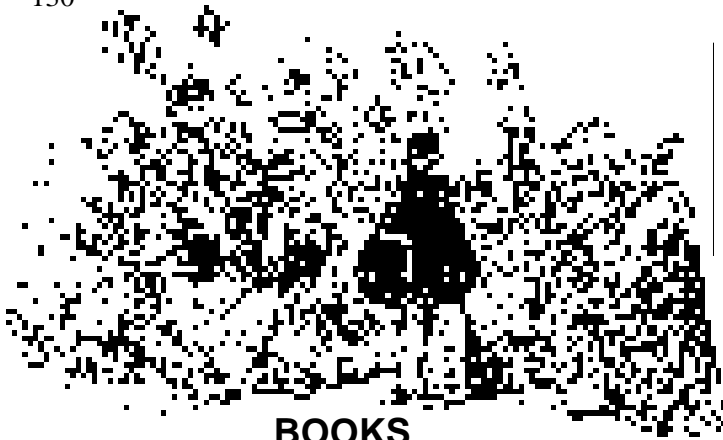
Avena Botanicals Face Cream

Moisturize, soften and restore your skin after it has been buffeted by wind and weather. Contains calendula flowers, comfrey leaves, linden flowers, and mugwort flowers and leaves in a base of apricot kernel, coconut and almond oils; rose water, beeswax and pure essential oil of lavender. Glass jar with screw-on lid.

9504: 2 oz (0#)/\$10.00

Bug Baffler Size Chart

Weight	Size
50-110lbs	child's
110-175 lbs	S/M
175-235 lbs	L/XL



BOOKS

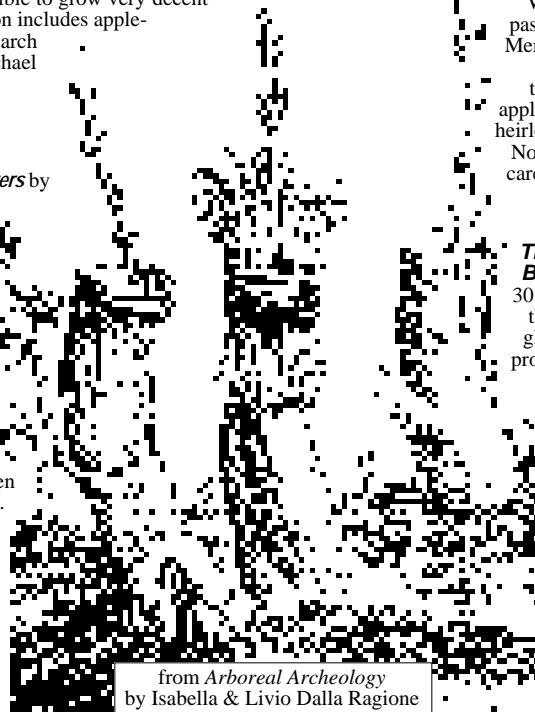
Looking for a title listed recently but not this year? Occasionally we have stray copies left which we will sell at a discount. Call us with specific title requests. Reviews written by Roberta Bailey, Heron Breen, John Bunker, Ed Hamel, Nikos Kavanya, Susan Kiralis, CR Lawn, Jen Ries, Kelly Payson-Roopchand and David Shipman.

The Apple Grower: A Guide for the Organic Orchardist by Michael Phillips, 2nd edition, 320 pages, 8x10, softcover. The book you need to grow apples organically. Research to lessen the use of synthetic poisons in the orchard has produced heartening results in the past few years. Since *The Apple Grower* first appeared, two important products for organic orchardists, Surround (#8831) and Entrust (#8922), make it possible to grow very decent apples organically. This revised and expanded version includes apple-growing basics from A to Z, as well as the latest research and strategies for successful organic orcharding. Michael has read the studies, done the interviews, tested the products and found an effective way to organize the information and communicate it to the rest of us. -JB

9613: *The Apple Grower* (2#)/\$31.25

Arboreal Archeology: A Diary of Two Fruit Explorers by Isabella and Livio Dalla Ragione, 151 pages, 155 illustrations, 147 in color, 6x8 1/4", softcover. "Who knows how many plants are still hidden in the middle of the woods and of which our old farmers have no recollection," asks Isabella Dalla Ragione and then answers—she and her father do. An engaging account of the fruit-exploring work to which Isabella and her father, Livio, have given so many years. Although Italy is not Maine, and most Mainers will not be growing medlars or quince, there is still a great deal here to interest the American fruit enthusiast or agricultural historian. Delightfully written, filled with the excitement of finding long-lost varieties in places now off the beaten path that were once on trading and pilgrimage routes. Plenty of excellent fruit descriptions. The only thing better would be a visit to the farm itself. Isabella and I have kept up a correspondence during the past three years and I was pleased and honored to be asked to assist with the English translation of this book. -JB NEW!

9615: *Arboreal Archeology* (1#)/\$27.75



from *Arboreal Archeology*
by Isabella & Livio Dalla Ragione

I first learned about Isabella and Livio Dalla Ragione from "Renaissance Pears," a wonderful article by John Seabrook in *The New Yorker* (Sept. 5, 2005). I knew then that they were just up my alley. Isabella had been assisting her aging father during her "spare" time in scouring northern Umbria and Tuscany for rare old fruits and preserving them in their living agricultural museum called San Lorenzo, situated outside Citta' di Castello near Perugia. When Cammy and I had the opportunity to travel to northern Italy the following year, we visited the old farm where they lived. In early November we spent the better part of a day with Isabella, touring the historic orchards, exploring the fruit storage rooms, and chatting about the endangered apples, pears, quince, grapes, medlars, cherries and figs they have saved from extinction. We sat around a huge old rough-hewn kitchen table in the ancient kitchen, surrounded by hundreds of farm-house artifacts that she and Livio had collected over the years, discussing how to save our agricultural heritage. She even gave us several of her most prized apples as we departed. I've only known one other person as possessive about such things: me! Livio was too infirm to visit with us; he passed away about 9 months later. Fortunately, through Isabella, their amazing work lives on. Cammy and I intend to return soon. We are also working with others to have Isabella come tour the States during the next year or two. Isabella is now studying the link between fruit frescoes in old Italian villas and early Italian migration patterns. A book on that subject is due out soon. -JB

The Backyard Berry Book: A Hands-on Guide to Growing Berries, Brambles, and Vine Fruit in the Home Garden by Stella Otto, 284 pages, 6x9, softcover. Well organized and very informative, covers site and soil requirements, plant propagation and maintenance, pest controls, harvest and more, for common and unusual fruits, including hardy kiwis, lingonberries, cranberries, currants, and gooseberries. -RB

9618: *The Backyard Berry Book* (1#)/\$13.25

The Backyard Orchardist: A Complete Guide to Growing Fruit Trees in the Home Garden by Stella Otto, 248 pages, 6x9, softcover. An in-depth easy-to-read guide for both novice and experienced backyard orchardists. Well organized and illustrated, covering varietal and site selections, soils, pruning, diseases, pollination and more. 31 charts, 95 illustrations. -RB

9621: *The Backyard Orchardist* (1#)/\$12.50

The Berry Grower's Companion by Barbara Bowling, Timber Press, 284 pages, 6 1/4 x 9 1/4, softcover. With this very good how-to manual and the Fedco Trees catalog, you'll be set to grow your own small fruit. Focuses on strawberries, cane fruits, blueberries, and grapes. Each chapter includes a discussion of history, botany, varieties, planting, cultivation, diseases and pests. Chatty digressions cover topics from "A Brief History of Pest Control" to "Mycorrhizae." Bowling is off the mark occasionally in her hardness assessments. Beta and Bluebell grapes are harder than she thinks and Illini Hardy blackberry is a joke north of Hartford. I disagreed with some of her flavor favorites, although I've recently become more of an Earliglow fan. Also covers several minor fruits—kiwi, currant, highbush cranberry, junberry, and elderberry. -JB

9625: *The Berry Grower's Companion* (1#)/\$15.50

The Best Apples to Buy and Grow edited by Beth Hanson, 120 pages, 6x9, softcover. A must for anyone who enjoys apples.

Written by some of the most knowledgeable and passionate connoisseurs, including Ed Fackler, Ian Merwin, and Tom Burford. Not a how-to book, but includes some advice on growing your own. A totally delightful read and a joyful jaunt through apple history. Covers sixty favorite apples, new and heirloom, with harvest times, regions, and best uses. Not all sixty varieties are hardy in Maine, but who cares? -JB

9626: *The Best Apples to Buy and Grow* (1#)/\$7.75

The Biodynamic Treatment of Fruit Trees, Berries and Shrubs by Ehrenfried E. Pfeiffer, 30 pages, 5 1/2 x 8 1/2, softcover. While agriculture in the last 100 years has moved to bigger and more global systems, biodynamic farmers have quietly promoted their unique method of small-scale local agriculture. Interestingly, one of the latest techniques in modern science-based orcharding, spraying clay on trees (see Surround #8831), has been long employed in biodynamics (BD). Pfeiffer's little book, written nearly 50 years ago, provides a concise and clear explanation of biodynamics in the orchard. You don't have to be into the mysterious or the occult to benefit from his experience and practical information. Sections include preparation for planting, rootstocks, pruning, tree care, BD tree paste application, BD preparations, organic sprays, fertilization, cover cropping, pollination and diseases. -JB

9627: *The Biodynamic Treatment of Fruit Trees...* (1#)/\$4.25

Breed Your Own Vegetable Varieties: The Gardener's and Farmer's Guide to Plant Breeding and Seed Saving by Carol Deppe, 384 pages, 8 1/2 x 11, softcover, 2nd edition. "Why Save Seeds? Saving seeds is fun. Cleaning the seed, holding the clean seed in your hands, is magical. Gaze at the seed, run your fingers through it, play with it, and you can feel the connections...Unquenchable joy arises. It is so intense it puzzles you initially. Then you recognize it. It is the joy that comes from being who you are supposed to be and doing what you are meant to do." Here is a woman who knows seeds and shares information available nowhere else. Want to know how to design variety trials or how to understand and appreciate the subtleties of selection? Want to

reclaim the lost lore of our ancestors and relearn the traditions of seed saving and seed breeding? Let Deppe be your guide as you chart your own path with seeds one experiment at a time. -CR

9635: *Breed Your Own Vegetable Varieties* (1#)/\$21.75



Building Soils for Better Crops by Fred Magdoff and Harold van Es, 2nd edition, 230 pages, 7 1/2x9, softcover. "If you follow practices that build up and maintain good levels of soil organic matter, you will find it easier to grow healthy and high-yielding crops." Organic matter: what is it, why do we need it, how do we get it? Topics covered in a plain readable style with information useful for both the neophyte and the experienced grower. Every suggestion is both general enough to be applied broadly and specific enough to devise a management plan for one's own fields. This expanded edition adds profiles of farms that put the recommended practices to use. Important and useful information is highlighted in sidebars and tables for quick reference. The epigraphs which begin each chapter remind us of how much knowledge has been overlooked in the last 50 years. -DS

9639: *Building Soils for Better Crops* (1#)/\$19.00

Cider Hard and Sweet: History, Traditions and Making Your Own by Ben Watson, 2nd edition, 184 pages, 8 1/4x8 1/4, hardcover. Over the past decade Ben Watson has dedicated himself to becoming a first-class cider maker. He plays a key role in Cider Days held in western Massachusetts, is active in the online site Cider Digest, collaborates regularly with apple historian and orchardist *par excellence* Tom Burford, and is involved with Slow Food in saving historic varieties and food traditions. Best of all, he has produced this clear, entertaining, informative, thoroughly researched and redesigned second edition of his 1999 book for anyone interested in cider. Includes a history of cider, all the basics of cider making as well as information on apple wine, perry, distilled apple beverages and the ins and outs of making hard cider. Also covers sweet cider, apple cider vinegar, and cooking with cider. Recipes, charts and appendices abound, including extensive lists of apple and pear varieties and their cider-making qualities, yeasts, equipment, websites, books, events, nurseries and more. Keep a copy by your bedside for a nightly dabble and another in your cider room for the clear detailed instructions. -JB

9643: *Cider Hard and Sweet* (1#)/\$19.50

The Complete Book of Small-batch

Preserving by Ellie Topp and Margaret Howard, 376 pages, 6 3/4x9 3/4", softcover. Here are more than 300 recipes for small batches of preserves that make the most of in-season fruits and vegetables and supermarket specials. The unique combinations of ingredients in these easy-to-follow recipes feed your sense of play and allow you to expand the options on your pantry shelf and in your imagination. The clear text covers the basics of canning and freezing, and tantalizes with chapters on jams, jellies, marmalades, conserves, butters, curds, curries, pickles, salsas, chutneys, savory and dessert sauces, flavored oils, vinegars, liqueurs, candied fruits, and dessert syrups. Each one a little batch of fun to tickle your palate all winter. Answers the question Churchy LaFemme posed long ago to Howland Owl: "What does you put into yo' watermillion rhyme pree--serve...? It's dee--licorice." -RB

9650: *The Complete Book of Small-batch Preserving* (2#)/\$15.50

Compost, Vermicompost and Compost Tea: Feeding the Soil on the Organic Farm NOFA Organic Principles and Practices Handbook Series, by Grace Gershuny, illustrated by Jocelyn Langer. 89 pages, 9x6, softcover. "Composting represents for many the essence of organic food production... composting is what sets organic methods apart from conventional ones. Yet many organic farms do not compost, and consider it to be more bother than it's worth." With this little handbook they

have no excuses. Just as composting takes its raw materials and works them into a readily accessible form, Grace Gershuny has broken down composting into a few well-packed richly informative pages. Covers high- and low-temperature composting, the cost of composting, proper materials, carbon-to-nitrogen ratios, NOP requirements, the issues around compost tea and testing for quality and maturity. Charts give the carbon, nitrogen and moisture content of possible raw materials, aid in calculating recipes for compost and potting soil, and help diagnose problems. -DS

9660: *Compost, Vermicompost and Compost Tea* (1#)/\$8.00

Use weight in parentheses (#) to calculate shipping charge.

Deeply Rooted: Unconventional Farmers in the Age of Agribusiness by Lisa Hamilton, 312 pages, 5 3/4x8 1/2", hardcover. Lisa Hamilton knows that great storytelling can drive

home a point far more effectively than heavy-handed rhetoric. In *Deeply Rooted* she weaves together strands of a devastating critique of American agribusiness through the eloquent voices of Harry Lewis, a dairy farmer in East Texas; Virgil Trujillo, a rancher in Northern New Mexico; and David Podoll, a seed breeder and organic farmer in South Dakota: three remarkable men, each deeply rooted in his locality. Each "takes the road less traveled by," and each makes a difference as they seek an agriculture that can *endure*. Taken together, their eccentricity, courage, passion and attention to detail carve a philosophical statement in the best tradition of Aldo Leopold and Wendell Berry that gets to the essence of defining stewardship. As Harry Lewis puts it, "I say stop pointin' fingers and get to work changin' things. Back in the Sixties we used to carry signs sayin' 'We Shall Overcome.' Well, I'm not interested in what we *shall* do, I'm interested in where I am." -CR NEW!

9661: *Deeply Rooted* (2#)/\$20.25

Deerproofing Your Yard and Garden by Rhonda Massingham Hart, 2nd edition, 200 pages, 6x9, softcover. With sportsmen's lobbies so powerful, we have a tremendous overpopulation of white-tailed deer in the northeast. If you're not lucky enough to keep a smart dog, you will need to resort to more subtle strategies lest your plots be devastated by bambi. Deer are smart, adaptable and incredibly athletic. They can sprint up to 35 miles an hour, jump 9 feet high and clear a span 20 feet across, but they are creatures of habit who can be easily spooked or betrayed by their acute sense of smell. Hart outlines ways to outwit them—from choosing plant species they dislike, to creating uninviting physical barriers, to using foul odors, to fencing them out—and assesses the relative merits of each. -CR

9662: *Deerproofing Your Yard and Garden* (2#)/\$11.75

Drip Irrigation for Every Landscape and All Climates by Robert Kourik, 2nd edition, 179 pages, 6x9, softcover. Kourik has spent the 17 years since this book first appeared tweaking and improving his drip irrigation systems and knowledge. He brings the latest information on timers, fertilizer injectors and all the gizmos and gadgets on the market now. He outlines irrigation setups for vegetable gardens, flower beds, trees and containers and explains how to set up grey-water systems and systems using only rain runoff. Plenty of detail and lots of tips on common mistakes to avoid, knowledge gained from first-hand experience. -DS NEW!

9665: *Drip Irrigation for Every Landscape...* (2#)/\$19.50

Field Guide to Grasses, Sedges and Rushes

by Edward Knobel, 83 pages, 5 1/2x8 1/2, softcover. "A child said, What is the grass? fetching it to me with full hands; How could I answer the child?...I do not know what it is any more than he." (Walt Whitman, *Song of Myself*) Had he this book, he could, at least, have answered, "What is *this* grass?" Alas, the guide was not published until 1899. The book is divided into the classes of its title and organized by the complexity of the ear, the flowering part of the culm. As you lean and loaf at your ease, observing a spear of summer grass, pick up this handy guide; observing the stem and ear, use the key to find the illustration and description. The scientific names have been updated to current standards and the index lists both genus and common names. -DS

9670: *Field Guide To The Grasses...* (1#)/\$3.75

Use weight in parentheses (#) to calculate shipping charge.

Garden Flowers Alphabet Coloring Book by Ruth Stoffer, 32 pages, 8 1/4x11, softcover. The alphabet in flowering plants. Includes color plates on the cover to guide young illustrators.

9680: *Garden Flowers Alphabet Coloring Book* (1#)/\$3.00

The Garden Primer by Barbara Damrosch, 2nd edition, 820 pages, 6x9, softcover. While she whetted our appetite with her sprightly syndicated columns, we waited 19 years for Damrosch to revise her classic. *HortIdeas* said that her new edition is the current best choice for "the one gardening book to own if you own only one." I concur. Her title hardly does her justice. Far more than a mere primer for beginners, her magnum opus is comprehensive and goes way beyond the basics to convey her expertise on all aspects of growing, from garden design to useful equipment, from propagation techniques to cultivar choices. Whether you're into houseplants, herbs, roses, shrubs or trees, whether you're a novice or an old pro, you'll find garden lore, information and advice written in her disarmingly witty engaging style. As she put it so succinctly in the first edition: "Gardening is very simple, really. You just have to learn how to think like a plant." -CR

9682: *The Garden Primer* (2#)/\$14.75

Gardening at the Dragon's Gate: At Work in the Wild and Cultivated World by Wendy Johnson, illustrated by Davis Te Selle, 447 pages, 7 3/8x9, softcover. Like a cross between the *Tassajara Bread Book* (although with fewer recipes) and *Zen and the Art of Motorcycle Maintenance*. Johnson's masterwork covers the basics and beyond from a Zen perspective. Highly recommended by herbalist Deb Soule and by longtime Fedco customer, the Island Gardener, Kathie Krause Iannicelli of Monhegan, ME. Iannicelli says, "I know Wendy and have been waiting ten years for her book—well worth the wait! Wonderful, real, gritty, great combination of practical information, scientific fact and the poetry and soul of what it is to have your hands in the Earth." From 30 years sitting *zazen* "like individual pumpkins in a vast field, aglow with our vow, connected by a common vine..."

Johnson learned the practice of bare noting in the garden: how to achieve the mindfulness that permits "a clear perception of your garden to arise in you quite naturally...attention and clarity call each other up, like wormwood whispering to the moonlight." -CR NEW!

9684: *Gardening at the Dragon's Gate* (2#)/\$20.25

Gardening with Children edited by Sigrun Saphire, 120 pages, 8x9, softcover. "A majority of people in our society—children and adults alike—suffer from... 'plant blindness' ...losing our collective awareness of the crucial role plants play in our lives." This simple but sound book is designed to stimulate children's interest in the science of agriculture. For those of us who already garden with children, it adds another dimension, by demonstrating *why* we garden as we do, using simple experiments that illustrate basic principles of plant growth. Starting with observation of the natural world and ending with the recycling activities of decomposition, the 40 activities, from a "garden hideaway" to a "popcorn grass garden," are designed to appeal to grades K-6. Heres a way to improve their health and our environment. -KPR

9686: *Gardening with Children* (1#)/\$7.75

The Grafter's Handbook by RJ Garner, 323 pages, 5 3/8x6 1/2, softcover. Published in association with The Royal Horticultural Society, black and white

photographs and drawings. Reprint of the 1947 classic on grafting and plant propagation. Its breadth of topics and clarity of instruction are invigorating and invaluable. If you have perfected your favorite forms of the "knife and notch," be prepared to get excited and curious. If you are starting out, you *will* learn to graft with this as your textbook. All-inclusive treatment covers rootstocks and their propagation, compatibility, scionwood, tools and accessories, methods of grafting, and raising trees in a nursery. Left me in wonder at the different ways a plant turns a wound into a work of art. -HB

9688: *The Grafter's Handbook* (2#)/\$15.50

from *Forest Gardening*
by Robert Hart

Forest Gardening: Cultivating an Edible Landscape by Robert Hart, 234 pages, 9x6 1/2", softcover. If there existed a Nobel Prize for Peace through Gardening, surely Robert Hart would have been a recipient! At his beloved Wenlock Edge Project in England, Hart strove to "achieve the highest possible degree of self-sufficiency throughout the year in a limited space with minimum labor." In his garden, he recreated the order of a natural forest as practiced by indigenous people around the globe, past and present, and drew upon community gardening projects in unlikely places to exemplify his ideas. This pioneer of agroforestry and permaculture offers humanity the possibility of sustaining itself by reviving the wisdom of our common heritage and re-entering an intimate relationship with the plant world. He proposes an integrative holistic approach to working the land, paying attention to plant diversity, soil health, and use of water and sun. I especially appreciate his belief that we have not exhausted the planet. Rather, we have too long ignored the stored potential for wholeness that comes about when we practice gardening by the laws of nature. You won't find doom and gloom in these pages! More than a collection of academic ruminations, historical threads, and poetic verses, this book outlines the practical steps needed to realize harmony in your home garden, whether your setting is rural or urban, arid or lush, and to build a new world economy which nourishes all of us physically and spiritually. -JR NEW!

9672: *Forest Gardening* (1#)/\$19.50

Forest Trees of Maine: Centennial Edition by the Maine Forest Service, 176 pages, 6x9, spiral-bound softcover. Mainers are familiar with the tall, slim pamphlet, *Forest Trees of Maine*, a wonderful example of the good work government agencies do. Clear and elegant line drawings, tree identification guides and concise descriptions make it a wonderful guide for landowners and woods enthusiasts. This special expanded edition commemorates the guide's 100th year and has color photographs of important identification keys, historical photographs of Maine logging, and locations of Maine's largest specimens. Covers native trees and commercially important introduced species. Each genus section begins with a chart listing the important distinctions among the species followed by individual species descriptions. Includes an identification key and glossary. A PDF of the complete *Forest Trees of Maine* is available at the Maine Forest Service website <<http://www.state.me.us/doc/mfs/pubs/ftm/ftm.htm>>. -DS

9675: *Forest Trees of Maine* (1#)/\$9.00

Four-Season Harvest: Organic Vegetables from Your Home Garden All Year Long by Eliot Coleman, 2nd edition, 234 pages, 8x10, softcover. A visit to French winter gardens in January 1996 provided Coleman with the additional dose of inspiration and knowledge which he brings to the revised edition of his gardening classic. If, instead of stale California lettuce and Mexican tomatoes, you'd prefer your February salad to be made from fresh mâche, claytonia and arugula, let Coleman be your guide. Key to his system is extending the harvest season by succession planting and crop protection, using low-tech homemade devices such as cold frames and tunnels. Don't settle for the traditional American vegetable garden that ends in October when you can have "real food" all year round. -CR

9677: *Four-Season Harvest* (1#)/\$19.50

Growing and Gathering Your Own Fertilizers: Self-Teaching Mini-Series #12 by J. Mogador Griffin.

Laurent Gaudreau and John Jeavons, 140 pages, 5 1/2x8 1/4", softcover.

This booklet is a compendium of information generated from the research of Ecology Action as they worked with their biointensive practices. Gives a quick overview followed by pages upon pages of tables providing the analysis for nitrogen, calcium, phosphorus and potassium for cover crops, manures and plant and animal residues (e.g. wood ash, bone meal or kelp meal) An excellent reference book for developing cover cropping and composting strategies that create healthy and productive soils. The tables, though not complete, are extensive in the crops and materials listed. Each table tells how much of each crop or fertilizer is needed to redress deficiencies reported on soil analyses. The discussion on composting fits well with a sustainable view of living. Even the format is make-do; this may be the last book ever in the U.S. to be typeset on a typewriter! -NK NEW!

9689: *Growing And Gathering Your Own Fertilizers (2#)*/\$12.25

Growing and Using Stevia: The Sweet Leaf from Garden to Table by Jeffrey Goettemoeller and Karen Lucke, 85 pages, 6x9, softcover. *Stevia rebaudiana*, the naturally sweet plant, has been exciting growers and cooks with its possibilities. It is a low-calorie healthful alternative to sugar or artificial sweeteners. This simple and straightforward introduction covers propagating from seed (#4684 in the Seeds section) and cuttings, growing indoors and out, and harvesting and storing. Most important it teaches how to make stevia extract and powder and how to convert sugar amounts in recipes to stevia quantities. Includes a history of the plant, thirty-five recipes and information on sources for stevia products. -RB

9690: *Growing and Using Stevia (1#)*/\$7.75

Growing Garden Seeds: A Manual for Gardeners and Small Farmers by Robert Johnston, Jr., 32 pages, 5 1/2x8 1/2, softcover. If you are new to seed saving, this little manual by the founder of Johnny's covers all the basics and is the best place to start. First published in 1976, it is a classic. -CR

9695: *Growing Garden Seeds (1#)*/\$2.75

Growing Great Garlic by Ron L. Engeland, 213 pages, 6x9, softcover. Garlic is the world's second most important allium crop, behind onions. If garlic is your passion, or just your avocation, you'll enjoy this book. Engeland, an expert who grew and sold over 100 strains and even marketed a paper he made from the discarded bulb wrappers, has written the definitive guide to growing garlic. He devotes thirty pages to varietal differences, adds a fascinating chapter on history, and provides in-depth cultural information on growing, harvesting, storing and marketing garlic.

9697: *Growing Great Garlic (1#)*/\$13.25

Growing Old-Fashioned and Hardy Roses Organically by Suzanne Verrier, 6 pages, 8 1/2x11, staple-bound. A pamphlet filled with practical organic growing tips, from plant nutrients and winter care to varietal and site selections. Almost as good as a walk with this expert Maine organic grower through her thriving rose garden to learn her simple efficient methods. -RB

9709: *Growing Old-Fashioned and Hardy Roses...* (1#)/\$2.50

A Handbook of Native American Herbs by Alma R. Hutchens, 256 pages, 4 1/2x8, softcover. Catalogs 125 medicinal herbs by common and botanical names, geographical location and botanical description. Tells which parts are used medicinally, how to prepare them and their effects. Hutchens talks about how they have been used homeopathically and by the Russian herbalists with whom she trained. A handy pocket reference for the practising herbalist and the interested amateur. -DS NEW!

9715: *A Handbook Of Native American Herbs (1#)*/\$15.25

A Handmade Life: In Search of Simplicity by W.M.S. Coperthwaite, 120

pages, 9x9, softcover. What is beauty and what is democratic design? How are simplicity, design, aesthetics and non-violence related? Richard Bartlett Gregg (1885-1974) was a close friend of the Nearings who brought Gandhi's teachings to America. His book *The Power of Non-Violence* became a handbook for the civil rights and peace movements. He also profoundly influenced Copperthwaite.

Coperthwaite has lived along the coast of Maine for forty years, working with hand tools to craft nearly all of his basic needs, buying almost nothing, and teaching people how to design and build yurts. In this book about personal and social design, he shares his philosophy: that the highest forms of wisdom come from blending many different cultures, that design is about selecting tools which fit our personal needs and scale, that teachers and students must work with their hands and backs as well as their hearts and brains, and that beauty is our birthright and the lack of beauty a sign of great danger. Nothing else that I have read in recent years has had the impact on me of this simple yet profound philosophy. -CR

9717: *A Handmade Life (2#)*/\$19.50

Hardscrabble Harvest by Dahlov Ipcar, unpagged, 9x11 1/2", hardcover. "The farmer plants early in the spring. He'll be lucky if he harvests a thing." It's a hardscrabble life on the farm, chasing the crows from the corn and the rabbits from the lettuce, the horses from the melons and cows from the hay. The farmer and his wife have to run all day. But run they do in this wonderful book by one of Maine's outstanding artists. The harvest is brought in and cellar is full of food and the barn full of hay. And even though the farmer and his wife are warned at the end: "Here come your relatives to gobble it all up." There is plenty to go around and to get them through the winter. And plenty for us as well. A great book to read to your children and grandchildren and when they are sleeping you can read it again to yourself and remember. -DS NEW!

9718: *Hardscrabble Harvest (1#)*/\$13.25

Healthy Soils for Sustainable Gardens edited by Niall Dunne, 120 pages, 6x9, softcover. A brief, useful introduction to soil: where does it come from, who lives there, and, most important, how to take care of it. Covers the basics of soil nutrients and how they get to plants. Get to know your soil, what the texture and smell can tell you. Condition your soil for healthy plants. Learn to live with difficult soils. Another excellent guide from the Brooklyn Botanical Garden. -DS NEW!

9719: *Healthy Soils for Sustainable Gardens (1#)*/\$7.75

Herbal Antibiotics: Natural Alternatives for

Treating Drug Resistant Bacteria, by Stephen Harrod Buhner, 135 pages, 5 1/2x8 1/2, softcover. The problem screams at us in the headlines: E. coli, salmonella, widespread outbreaks of increasingly drug-resistant bacteria. One good solution is herbal antibiotics. In this empowering book, Stephen Buhner recaps the problem and goes on to describe the best botanical medicines, how to make them and how to use them. He also focuses on ways to strengthen the immune system. This concise book is crammed with solid, specific information and should be a staple tool in every home medicine chest. -NK

9720: *Herbal Antibiotics (1#)*/\$10.00

Home Cheese Making: Recipes for 75

Homemade Cheeses by Ricki Carroll, 278 pages, 9x7, softcover. One look and I knew it would be easy to start making my own cheese. Ricki Carroll has helped mold the artisanal cheese-making revolution, supplying the information and the equipment needed through her company, New England Cheese Making Supply. Revised and updated, this 3rd edition, aged to a subtle perfection, stands as an easy-to-use, thorough, and practical guide to making all types of cheese. Written for the beginner, the chapters cover ingredients, equipment, techniques, and a summary of the cheese-making process. 75 recipes for many types of cheese: soft, hard, Italian, bacteria- and mold-ripened, goat's milk, as well as other dairy products. The recipes are enlivened with profiles of cheese makers. -RB

9725: *Home Cheese Making (1#)*/\$13.25

How to Build Your Own Greenhouse: Designs and Plans to Meet Your Growing Needs by Roger Marshall, 255 pages, 9 1/4x12,

softcover. All right, so he doesn't actually have the plans for building the Crystal Palace, although you might want to attempt one on a smaller scale after reading. Marshall explains the process from start to finish: what kind of greenhouse to build; how to estimate costs; the best materials to use; how to lay a foundation, including lessons in bricklaying and concrete work; siding; roofing and upkeep. Step-by-step plans for nine different greenhouses round out a thorough and well-written book. -DS

9729: *How to Build Your Own Greenhouse* (2#)/\$19.50

Identifying Diseases of Vegetables by A.A.

McNab, A.F. Sherf, and K.K. Springer, 62 pages, 8 1/2x11, spiral-bound softcover. Was that hideous sunken black spot near the stem of your tomato caused by *Alternaria solani* or *Colletotrichum coccodes*? Excellent photographs facilitate accurate disease identification. Includes all the popular vegetables and the common diseases which affect them.

9735: *Identifying Diseases of Vegetables* (1#)/\$19.50

**Landscaping with Fruit** by

Lee Reich, 191 pages, 10x9 3/8", softcover. Written for the small-scale gardener looking to embellish a home plot with dual-purpose plants: those which create a "luscious landscape" of food and beauty for all seasons. A comprehensive how-to guide for maximizing the use of intimate spaces to produce excellent fruit from relatively low-maintenance, yet aesthetically interesting, trees, shrubs, and plants. Reich nurtures the reader's ability to think through the process of designing an edible landscape and to search her horticultural soul when making decisions about form, texture, and color of plantings. Basic considerations of soil, sun, micro-climates, and harvest goals are explored. He offers examples of

landscaping for particular spaces like an entryway, foundation, or play area and discusses how these spaces can be used to reflect or influence our experiences in them. Answers many of the questions I am frequently asked by customers at our annual Tree Sale: What plants are best for a hedgerow? How do I grow this tree in a container? Features 38 fruiting plants with very useful information about their yields, hardiness, pollination needs, growth habit, appearance, adaptability, and use. Excellent photographs accompany the text. Many of the plants featured can be found in our Trees catalog. With humility, the author acknowledges the unavoidable subjectivity of his selection. But...really, Mr. Reich, no elderberries?! Hmmm. -JR NEW!

9737: *Landscaping With Fruit* (2#)/\$15.50

Living with Chickens: Everything You Need to Know to Raise Your Own Backyard Flock by Jay Rossier, 201 pages, 6x9, softcover. A peck above the run-of-the-mill livestock books that appear to be reprints of each other. The material is presented in a fresh manner with very good appendices: listing breeds by origin, specialty and—most helpfully—temperament; addresses of hatcheries; extension agencies; online resources. The photographs alone make the book worth buying. It is now part of my library. -EH

9747: *Living with Chickens* (2#)/\$13.25

Look at the Sky ... and tell the weather by Eric Sloane, 89 pages, 8 1/2x11, softcover. A self-described weather junkie, I've tried to read various meteorologies for the layperson and absorbed little from them. Sloane's approach is different; he's in love with the air, sky and clouds and he made me realize that's why I follow weather obsessively. Structured around a cP (that's continental, dry, Polar, cold) air mass that formed in northern Canada, swept across the U.S. and exited the continent through Maine. Each chapter is set in a location on the way with anecdotes about the people affected by the cold cleansing front. Sloane, best known as a painter, explains a lot of basic meteorology with his calm precise and lovely line drawings illustrating what the air mass did in each place. He is also a plain writer of yarns and tales, some funny, some poignant, all engaging, which reinforce his explanations of how to read the sky and the clouds. His accounts of Alaskan bush pilots, Nebraska snow barrels, geese, and covered bridges enchanted me. CR called it "a total delight." I concur. -SK

9748: *Look at the Sky* (1#)/\$7.75

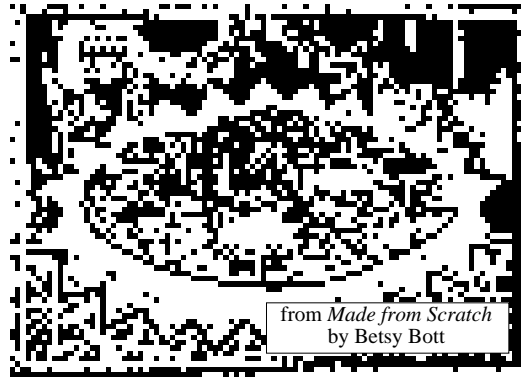
Use weight in parentheses (#) to calculate shipping charge.

Made from Scratch: Daily Bread Bakery & Cafe, 2nd edition, by Betsy Bott, 343 pages 8 1/2x10", spiral bound. Intersperses

delicious recipes with stories of 21 years of running the Daily Bread Bakery and Cafe in Richmond, VT; of the people who contributed their labor and wisdom, of a place where people worked co-operatively and focused on local flavor. The 300 recipes, many vegetarian, are easy to follow and easy to make and better than most everyday food. Includes recipes for special occasions. Breads, rolls, sweet rolls, cakes, cookies, brownies, bars, muffins and scones.

Soups, stews, and sandwiches. Salads and marinades. Casseroles and main dishes. Even breakfast specials, including five different granolas. One of the few cookbooks I've encountered with footnotes and a bibliography. -RB NEW!

9750: *Made from Scratch* (3#)/\$27.25



from *Made from Scratch*
by Betsy Bott

Making Plant Medicine by Richo Cech, 282 pages, 5 1/4x8 1/4, softcover. A thorough and careful handbook for serious herbal-medicine makers. Cech inspires with his simple but precise step-by-step instructions. One gets a real sense of his technical competence. Though his craftsmanship is grounded in spirituality and he fortifies his points with occasional stories, Cech does not overindulge in new-age spiritualism. Instead he gets right down to business in the hope that his handbook will be "stained with the happy splatter of utilization." Includes good glossaries and a comprehensive herbal formulary with dosages, practical uses and contra-indications for more than 100 herbs from Angelica to Zuta Levana. Does not include cultural instructions for growing the plants. -CR

9753: *Making Plant Medicine* (1#)/\$11.75

The Medicinal Herb Grower: A Guide for Cultivating the Plants that Heal, Volume 1, by Richo Cech, 159 pages, 7 1/4x10", softcover. Renowned herbalist Richo Cech has produced a book on growing plants—primarily herbs—sown and coaxed and observed by a master plantsman. Not a book on how to grow herbs; you will not be able to look up ashwaganda in the index and turn to the page that matches your interest. Rather, the rambling storytelling has the feel of a discussion among friends on a snowy winter's eve that engenders a few "aha!" moments to put to the test come spring. -NK NEW!

9754: *The Medicinal Herb Grower* (1#)/\$11.75

Natural Beekeeping: Organic Approaches to Modern Apiculture by Ross Conrad, 246 pages, 8x10, softcover.

Bees are Black, with Gilt Surcingles —
Buccaneers of Buzz.
Ride abroad in ostentation
And subsist on Fuzz.

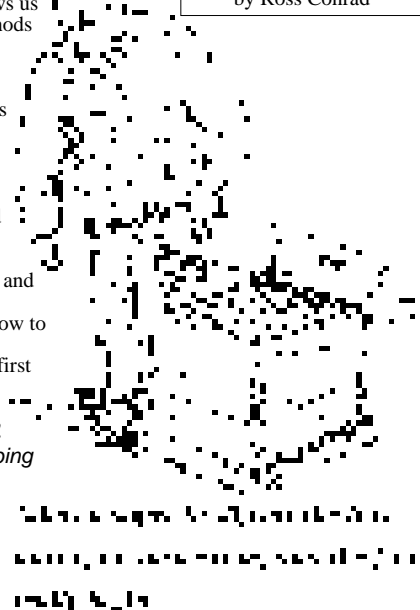
—Emily Dickinson

Beekeeping and "organic" would seem to go hand in hand. What better embodiment of "sustainable" can one imagine than the sight of a host of bees flying from flower to flower, spreading fecundity and ensuring a bountiful harvest? Unfortunately, as with so much of modern agriculture, beekeeping has become increasingly industrialized and the honeybee seems doomed to become another casualty of a misguided system.

Or maybe not. Conrad shows us another way: there are methods for controlling varroa mites that don't rely on toxic chemicals. Encouraging genetic diversity gives hives the strength to meet unexpected challenges; essential oils show great promise in keeping pests at a manageable level. Conrad had a good mentor in the legendary Charlie Mraz of Champlain Valley Apiaries and he amply repays the debt. Everything one needs to know to keep bees organically and successfully. The eloquent first chapter "Why organic beekeeping?" alone is worth the price. -DS NEW!

9760: *Natural Beekeeping* (2#)/\$27.25

from *Natural Beekeeping*
by Ross Conrad



The Northeast Cover Crop Handbook by Marianne Sarrantonio, 118 pages, 8 1/2x11, spiral-bound softcover. Covercropping is the keystone of sustainable agriculture. Cover crops restore depleted soils and maintain and improve soil fertility and tilth. This workbook, written for growing conditions in the Northeast, is designed to help farmers find the best crops for their needs. Learn which crop is optimal for which application, how to judge the effects of nitrogen from cover crops, and how to solve problems when they arise. Use the appendix to find planting information, expected yields of organic matter and nitrogen, and problems to watch out for. A most useful guide and resource. -DS

9769: *The Northeast Cover Crop Handbook* (1#)/\$12.75

Not Far from the Tree: A Brief History of the Apples and Orchards of Palermo, Maine 1804-2004 by John Bunker, 190

pages, 8 1/2x11, softcover. The Fedco Trees coordinator, John Bunker reveals how he came to know so much about apples—he spent years talking to his neighbors in Palermo, ME, listening to their stories and walking their fields and orchards learning the varieties, how they came to be planted there and why. A wonderful lesson in Maine history as told by apples. John's love of apples and affection for his neighbors and town speak clearly through each page. Copiously illustrated in John's unmistakable style. -DS

9771: *Not Far from the Tree* (2#)/\$22.00

from *Not Far from the Tree*
by John Bunker

Notes on a Lost Flute: A Field Guide to the Wabanaki by Kerry Hardy, 144 pages, 8 1/2x10", softcover. Here in Maine, indeed in all the U.S., we live in a world whose stories were told long before our "history" began. We walk on old paths and speak old names but seldom with any sense of connection to those stories. Hardy travels through Maine, exploring Wabanaki language and place names, and begins to make those connections for us. Like getting a pair of glasses that allow us to see better what was there all along: the plants, animals, and geography through the culture that preceded ours. A meander through this sifting of New England's cultural ecology makes you restless to be outside, discovering for yourself the poetry of place: wolf pine, feather shoe, little forks. Perhaps you will get excited to find an elderberry bush and rediscover your own lost flute. -NK NEW!

9775: *Notes on a Lost Flute* (2#)/\$17.00

Organic Dairy Farming: A Resource for Farmers edited by Jody Padgham, 178 pages, 8 1/2x11, softcover. Dairy farming from hoof to snout. Covers soil health, pasture management, cropping systems, as well as rearing livestock from calves to milking cows. The experienced dairyperson and the greenhorn will find this book worthwhile. Presents an enormous amount of information in digestible fashion. Clear chapter headings make finding information easy. Organic Valley sells this book to its farmers. -EH

9779: *Organic Dairy Farming* (2#)/\$14.25

The Organic Farmer's Business Handbook: A Complete Guide to Managing Finances, Crops, and Staff—and Making a Profit

by Richard Wiswall, 184 pages, 8x10, softcover. Given the price of this slim volume, my cynical side says "Aha! Wiswall has finally figured out that he can make more money writing a book teaching the business of farming than farming." Yet, people go into farming for any number of reasons, many unrelated to the bottom line, and unless they are independently wealthy or have another source of income, are doomed to fail if they ignore the financial side. Really, you have only four choices: (1) Figure out all this on your own as I did at Fedco. Best choice if you are inclined to think in systems, since you'll learn the most by setting up your own models and will know when, how and why to tweak them. (2) Get Wiswall's book and follow his blueprints to make your own models. (3) Hire a business consultant probably many times more expensive than Wiswall with no guarantee of good results or (4) Stay in denial and pay as you go, undoubtedly the costliest of all. If you haven't the tools and inclination to do (1), I recommend (2). Wiswall packs a lot of information into his pages, everything you need to set up your own profitability templates. Any prospective farmer or businessperson, organic or not, can benefit; even those experienced will pick up a few tricks. Includes a companion CD. -CR NEW!

9781: *The Organic Farmer's Business Handbook* (2#)/\$27.25

The Organic Gardener's Handbook of Natural Insect and Disease Control edited by B. Ellis and F. Bradley, 534 pages, 7 1/2x9 3/4, softcover. Plants attacked by diseases or insects reveal valuable information about soil health and gardening techniques. Use this complete reference, including a 250-page alphabetical guide to identification and solution of plant problems, 80 pages of full-color insect photos, and 140 pages on plant diseases and modern control strategies, to help you identify and successfully treat disease and insect problems in gardens, woods, orchards and flower beds. -DS

9787: *The Organic Gardener's Handbook...* (3#)/\$18.75

Use weight in parentheses (#) to calculate shipping charge.

Preserving Food without Canning or Freezing by the Gardeners and Farmers of Terre Vivante, 197 pages, 6x9, softcover. Nikos fears that her grandchildren won't ever enjoy fresh cider.

By then, the food industry's hysteria to protect us from every microorganism (and to eliminate small local competitors), will have turned cider into a contraband substance and replaced it with pasteurized apple juice. Just ask the folks at Sewall's Orchard in Lincolnville, ME. The old-fashioned recipes submitted by readers of a French organic gardening magazine are like cider: they use natural microorganisms rather than destroying them. Freezing and canning—adequately covered elsewhere—are not among the methods of root-cellarling, drying, lactic fermentation, and preservation in oil, in vinegar, in alcohol, with salt and with sugar. Explains each recipe or method simply and clearly as if your grandmother or neighbor were showing you how to do it. Applies lactic fermentation, known to us mostly through sauerkraut, to diverse vegetables. Vinegar preserves an array including brussels sprouts, nasturtium seeds, radishes and grapes. Offers highly adaptable recipes for chutneys, ketchups, piccalillis, stocks, soups, fruit paste, jellies and jams. From the foreword by Eliot Coleman to the chart of which methods apply to which foods, an intriguing and useful book. -SK

9802: *Preserving Food without Freezing or Canning* (1#)/\$19.50

The Pruning Book by Lee Reich, 234 pages, 8x10, softcover. A good book to curl up with on a winter evening to learn about pruning: the benefits, tools and techniques. Covers all aspects of pruning, from fruit trees and vines to evergreens and ornamental shrubs as well as herbaceous and house plants. Learn about specialized techniques like pollarding, pleaching, espalier and topiary. Each topic is well organized and clearly explained with color photos and black-and-white drawings. A vital reference. -NK

9806: *The Pruning Book* (1#)/\$17.00

Resource Guide for Organic Insect and Disease Management

by Brian Caldwell, Emily Brown Rosen, Eric Sideman, Anthony M. Shelton and Christine D. Smart, 169 pages, 8 1/2x11, spiral-bound softcover. If your tomatoes are damaged by Septoria Leaf Spot, *Septoria lycopersici*, (whose aren't?) buy seeds and transplants from reputable sources because this disease can be seed-borne, and space your plants to promote air circulation and keep the leaves dry.

Copper products showed one good result and one poor result in recent trials. Here is the state of the art for organic crop management for brassicas, cucurbits, lettuce, solanaceous crops and sweet corn compiled by five experts including MOFGA's own Eric Sideman. Includes good photographs of insects and diseases, and material fact sheets on all approved organic treatments from *Bacillus subtilis* (available as Serenade #8804 in OGS section) to Spinosad (#8922). A valuable appendix addresses resistance to insects and diseases, habitats for beneficial insects, trap cropping for insect control, areas for further organic research and demystifies pesticide regulations. An admirable collaborative effort. -CR

9810: *Resource Guide for Organic Insect...* (2#)/\$11.75

Root Cellaring 2nd edition, by Mike and Nancy Bubel, 297 pages, 6x9, softcover. A good root cellar provides a "direct, earthy and deeply satisfying connection between our summer efforts in the garden and our winter need for fresh wholesome food." If thoughts of crisp carrots in March set your mouth watering, let the Bubels take you on a well-illustrated tour of root cellar designs. They can also help with varietal selection, best storage conditions, and recipes. -CR

9820: *Root Cellaring* (1#)/\$11.75

The Secret Teachings of Plants: The Intelligence of the Heart in the Direct Perception of Nature by Stephen Harrod Buhner, 315

pages, 6x9, softcover. Working in our gardens, we are drawn into an intimacy of observation with the plants we tend. Buhner builds on that and breaks through to a deeper level of understanding. He examines "the intelligence of the heart" first by seeing the heart as an organ of perception and then exploring how we can use our hearts in the direct experience of nature. The sections are interspersed with snippets of poetry that anchor and expand the prose. The writing reflects the teaching and speaks to one's entire being, through the heart. I have been studying this book for a year and I am still learning from it: about plants, disease, and the healing of our common soul. To answer the familiar question, if I were stranded on an island, this is the one book I would bring to sustain me. -NK

9822: *The Secret Teachings of Plants* (2#)/\$14.75

Seed to Seed, by Suzanne Ashworth, 2nd edition, 240 pages, 8 1/2x11, softcover. Considered the classic reference in the field with detailed instructions on seed saving techniques, including harvesting, drying, cleaning, storage, and proper isolation distances to maintain purity. New edition includes how to start vegetables from seed and region-specific growing information. Enhanced with spectacular photographs by David Cavagnaro, many taken at the Seed Savers Exchange's lovely gardens at Heritage Farm. This is the book our own seed growers use. -CR

9836: *Seed to Seed* (1#)/\$22.75

Small-Scale Grain Raising.

by Gene Logsdon, 308 pages, 6 7/8x10", softcover. Not too many authors get a chance to revise their work after more than 30 years. Gene Logsdon was way ahead of (or behind) his time when he wrote the first edition in 1977. Long out of print, it became a classic; copies offered online sold for hundreds of dollars. Interest in local economies has finally caught up with Logsdon's realization that food security starts with our most staple crops. His revision couldn't be more timely. Here are the basics for the most common grains with enough information to take you from sowing to reaping, storing to feeding, all leavened with Logsdon's rapier wit and clear common sense. He destroys the common myth that grains are difficult to grow and process on a small scale. -CR NEW!

9837: *Small-Scale Grain Raising* (2#)/\$23.25

Small-Scale Livestock Farming: A Grass-Based Approach for Health, Sustainability and Profit by Carol Ekarius, 218 pages, 8 1/2x11, softcover. A comprehensive no-nonsense guide for aspiring livestock farmers. Sufficiently thoughtful and thorough to interest experienced grass farmers as well. Recognizing the challenging economics of keeping animals for a living (or even a hobby) Ekarius introduces Allen Savory's holistic management tools early and uses them throughout. Enriching her advice with profiles of successful farms in all parts of the country, she covers breeding and training with a brief discussion on genetics, feeds and feeding, proper facilities, and health and reproduction with a short veterinary course. While a whole book could be devoted to just these topics, the real emphasis here is on niche marketing and on farm, financial and biological planning. Interestingly, she nestles her discussion of butchering and processing (with helpful illustrations) in the marketing section. Good appendices include anatomical drawings and animal feed recipes. -CR

9838: *Small-Scale Livestock Farming* (2#)/\$14.75

Use weight in parentheses (#) to calculate shipping charge.

Soil Resiliency and Health: Crop Rotation and Cover Cropping on the Organic Farm NOFA Organic Principles and

Practices Handbook Series, by Seth Kroeck, 88 pages, 6x9, softcover. At first glance, the best way to farm would seem to be to plant only the one crop that brings the highest return per acre. That may work in the short run, but soon the soil is depleted by extracting the same nutrients, the monocrop attracts the pests that prefer to dine upon it and succumbs to the diseases that thrive upon it. Herein lies the subtle craft of farming: profitable, sustainable farming depends upon crop rotation. A good rotation decreases soil-borne disease and pest outbreaks, suppresses weeds, builds soil fertility and improves tilth, ultimately increasing profitability. It includes cover crops and green manures as well as cash crops, creating a balance between the short-term needs of the farmer and the long-term needs of the soil. Kroeck shows how to create such a rotation by mapping your farm, grouping crops into plant families, while taking into account seeding and planting dates, length of time in the field, plot sizes, nutrient needs and plant part harvested and integrating all these considerations into viable schemes. Kroeck provides plenty of theoretical and real-life examples backed with economic analysis of the benefits. A good basic book for wannabe farmers and experienced growers who wish to improve their organization and operations. -CR

9840: *Soil Resiliency and Health* (1#)/\$8.00

Stella★Natura: 2010 Kimberton Hills

Biodynamic Agricultural Calendar edited by Sherry Wildfeuer, published by The Bio-Dynamic Farming and Gardening Association, 40 pages, 9x12, softcover. "Inspiration and practical advice for home gardeners and professional growers." This year's theme is "Just what is biodynamics?" Contains lunar and astronomical charts correlated with planting data which many of our customers find valuable, as well as stimulating essays which make biodynamic rationales and practices more accessible. -CR

9850: *Stella★Natura* (1#)/\$11.75

Tree Biology Notebook: An Introduction to the Science and Ecology of Trees by Richard C. Murray, 266

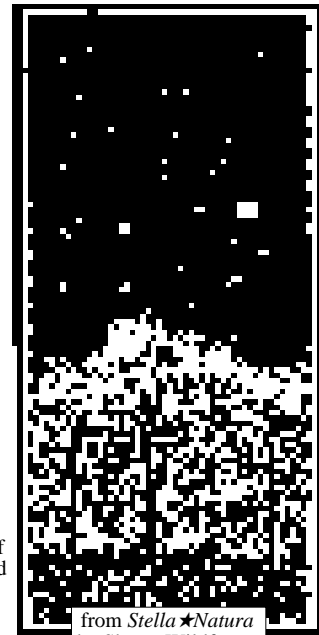
pages, 6x9, softcover. I got to know Richard Murray decades ago when he was homesteading in central Maine. A journeyman arborist, he was one of the original collective that founded the Fedco food warehouse, the birthplace of Fedco Seeds. In the early '80s he moved to Maryland to start his own tree service. He became a devoted student and close friend of the late Alex Shigo whose radical insights and innovations have become standard practice in arboriculture. Twenty-five years of study and work with trees have gone into this notebook—a thorough, scientific, description of trees: how they grow, reproduce, protect themselves and interact with the environment. The writing has a Zen-like quality. I found myself reflecting for more than a few minutes on some of his sentences. Dense, detailed, well organized, well illustrated, and well indexed. Pick up this book and read it as questions about trees occur to you. If you think you understand trees, Murray will make you think again. To learn about him and his work visit his website www.shannontree.com. -JB

9856: *Tree Biology Notebook* (2#)/\$36.25

The Tree Book: For Kids and Their Grown-ups by Gina Ingoglia, 96 pages,

11 1/4x9 1/4", hardcover. What does a tree eat? How do leaves change color? Why do humans need trees? Find these answers and more in a beautiful text which not only addresses the basics about trees but also guides young observers in learning how to ask questions and where to find answers. This rich combination of botanical facts, historical references, and delightful watercolors is sure to engage the mind and imagination of budding naturalists—of any age! Explores general tree anatomy and function and profiles 33 different species found in North America discussing growth habits, traditional uses, scientific name, and how to identify leaf, flower and fruit. Bold-type words pepper the text and lead to a glossary of definitions and pronunciations from acorn to xylem. The trees living in the Brooklyn Botanic Garden inspire the author's vibrant illustrations. My shelf is full of reference books to help me navigate through the world of trees. With this as its latest addition, my collection has gained soul and a renewed sense of childlike wonder. As so simply stated in the opening line, "It's good to know about trees." -JR NEW!

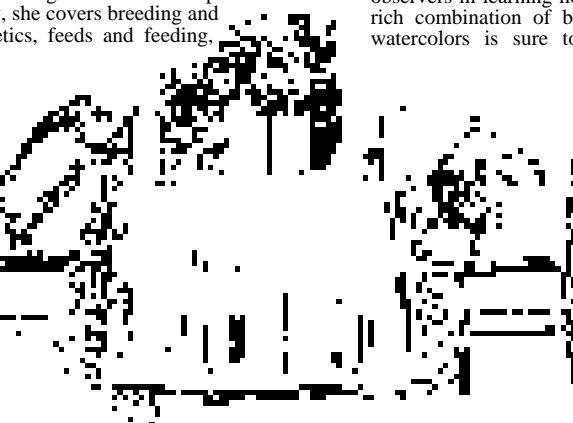
9858: *The Tree Book* (2#)/\$12.50



from *Stella★Natura* by Sherry Wildfeuer



from *Small-Scale Grain Raising* by Gene Logsdon



BOOKS

Vegetable Crop Health: Helping Nature Control Diseases and Pests Organically NOFA Organic Principles and Practices Handbook Series, by Brian Caldwell, 96 pages, 6x9, softcover. Starting with Eliot Coleman's notion that "well-grown plants are unsusceptible to pests," Caldwell discusses ways to improve plant and soil health and create "pest-negative" environments. Covers the benefits and costs of intercropping, sod strips, field diversity, mulches, cover crops and trap crops. Caldwell sees insecticides as a last resort and deals honestly with the limitations of using any one method. Concludes with a crop-by-crop discussion of pests and management practices. Good bang for the buck. -DS

9862: *Vegetable Crop Health* (1#)/\$8.00

The Vegetable Growers Handbook by Frank Tozer, 216 pages, 8 1/2x11, softcover. A complete guide to growing more than 93 varieties of vegetables, herbs, edible flowers and edible weeds. Each chapter contains information on proper germination; soil preparation, including proper pH; when, where and how to plant; watering and fertilizing recommendations; and solutions to common problems. Covers harvesting, storage, and seed saving and some unusual growing ideas. Accompanying the wonderfully informative text is a chart for each vegetable summarizing the most useful facts. -DS

9864: *The Vegetable Growers Handbook* (2#)/\$18.00

A Weaver's Garden by Rita Buchanan, 240 pages, 5 1/4x8 1/2, softcover. A complete guide to growing and using plants for fiber. Chapter titles tell the story: Plant Fibers for Spinning and Stuffing; Dyes from Plants; Soap Plants for Cleaning Textiles; Fragrant Plants to Scent and Protect Textiles; Plant Materials Used to Make Textile Tools; Creating a Garden. -DS

9866: *A Weaver's Garden* (1#)/\$8.50

Weedless Gardening by Lee Reich, 200 pages, 6x8, softcover. Stop tilling and start mulching your vegetables, flowers, trees and shrubs to lessen damage to the soil structure, reduce water

needs and eliminate weeds. One of the few books to look at the all-important interactive layer between soil and mulch where mycorrhizae colonize and feeder roots grow. This excellent account of a no-till garden system covers mulch materials, compost making, green manures and nitrogen sources with many informative charts and sidebars. Two caveats: employ sawdust sparingly if your soil is heavy or acidic and don't take Reich's recommendation to use the invasive Bishop's Weed as a border lest it persist until the next ice age. Otherwise, Roger Swain answered the question when he said, "Pay attention to the top few inches of soil and nature provides the rest." -RB

9870: *Weedless Gardening* (1#)/\$7.00

Whole Farm Planning: Ecological Imperatives, Personal Values and Economics NOFA Organic Principles and Practices Handbook Series, by Elizabeth Henderson and Karl North, 92 pages, 6x9, softcover. Sure you can grow great broccoli but that doesn't necessarily make you a successful farmer. Your farm depends upon a whole lot more than your green thumb, good tillth and reliable equipment and it needs a far wider range of tools than hoes, hoop-houses and tractors. Here is a new design for a revamped toolbox for managing the farm as an interdependent holistic social structure. Learn how to map a quality-of-life statement, how to meld personal, cultural and social goals with production goals; and how to climb back down the ladder of inference to halt escalating miscommunication. An indispensable manual for anyone who wants a lasting successful farm. -CR

9873: *Whole Farm Planning* (1#)/\$8.00

Wild Fermentation: The Flavor, Nutrition, and Craft of Live-Culture Foods by Sandor Ellix Katz, 187 pages, 7x10, softcover. In a time of antibacterial soaps, over-processed foods and pasteurized lifestyles comes a book promoting microbial coexistence. Biodiversity, so critical to our ecosystem, is just as important on the microbial level in our bodies. Eating cultured and fermented foods, from sauerkraut, kimchi and yogurt to miso, kefir and tempeh, promotes immune-enhancing microbial diversity in our bodies as well as an ecologically sustainable method of preserving delicious food. Simple, easy-to-follow recipes including vegetable, bean and dairy ferments, breads, grains and beverages, wine, beer and vinegars from all over the world, interspersed with a gentle yet empowering recipe for social change. A wild ferment of a book. -RB

9874: *Wild Fermentation* (1#)/\$19.50

from *Mrs. Restino's Country Kitchen*
by Susan Restino

The Wildlife Gardener's Guide by Janet Marinelli, 119 pages, 6x9, softcover. Wildlife?! I don't want to attract deer, raccoons or woodchucks. Perhaps this handy guide should be called "Attracting Wild Winged's." It's a basic introduction to helping sustain populations of birds, butterflies, bats, and beneficial insects through gardening. Full of straightforward information about the needs of these endangered creatures and how planting even a tiny urban lot can provide them sustenance and shelter. Marinelli emphasizes planting in vertical layers to maximize habitat diversity and gives plant lists for each region of the country. Fedco Trees offers most of her suggestions for the Northeast. Like so many in this Brooklyn Botanical Garden series, it is clear, easy to use, well indexed and cross referenced. Gives encouraging and simple ways for all of us to take part in restoring habitats for our flying friends. -SK NEW!

9875: *The Wildlife Gardener's Guide* (1#)/\$7.75

The Winter Harvest Handbook: Year-round Vegetable Production Using Deep-Organic Techniques and Unheated Greenhouses by Eliot Coleman, 247 pages, 7x10, softcover.

As I thumbed through, my first reaction was "Uh-oh, Eliot's gone slick." With Fedco having sold more than 1,300 copies of his dense self-published spiral manual that wasted not a single word in its 56 pages on the same topic, I was a little disconcerted by Chelsea Green's lavish format. Not to fear. The new book *is* snazzier, but the luscious glossy photographs and graphic charts by his partner Barbara Damrosch are pertinent and enhance his presentation. As far as the material being a re-hash of his old work, forget that notion as well. As long as he lives, 71-year-old Coleman will never stop experimenting and innovating and his handbook is full of improved techniques that he has discovered in the past decade. His model is the Parisian maraicheres of 150 years ago. What could be more relevant? They were local, cultivating as much as 6% of the land within the city limits, their system was so sustainable that their soil fertility continually increased, their selection was vast, they farmed year-round, and they were so productive that they fed not only the inhabitants of Paris but also exported vegetables to England, averaging from 4 to 8 harvests per year. Coleman and Damrosch aim for similarly intensive production, maximum use of greenhouse space, and have achieved gross returns of \$80,000 per acre annually. Here's how they do it. -CR NEW!

9876: *The Winter Harvest Handbook* (2#)/\$23.25

The Wisdom of Plant Heritage: Organic Seed Production and Saving NOFA Organic Principles and Practices Handbook Series by Bryan Connolly, 111 pages, 6x9, softcover. Most seed-growing manuals are either too elementary or too academic and complicated to be of much use to farmers. Few address the specific difficulties of seed production in our region. Botanist and Fedco-grower Bryan Connolly succeeded admirably in remedying those deficiencies in this informative and accessible work. Nikos Kavanya, our purchaser, distributes it to our seed growers as part of their training. Benefits the growing community of seed savers, growers and breeders in our region hungry for this information—from adequate populations and isolation distances to contracting, marketing and integration of seeds with vegetable crops. -CR

9878: *The Wisdom of Plant Heritage* (1#)/\$8.00

Read a Bargain — Discounted Books

For a full description of these books see last year's catalog or go to our website.

Balance: A Late Pastoral by Russell Libby, 5 1/2x8 1/2, softcover.

9882: *Balance: A Late Pastoral* (1#)/\$6.50

Designing Borders by Noel Kingsbury, 192 pages, 7 3/4x10 1/4, hardcover.

9884: *Designing Borders* (3#)/\$15.50

Mrs. Restino's Country Kitchen by Susan Restino, 311 pages, 7x10, softcover.

9892: *Mrs. Restino's Country Kitchen* (2#)/\$7.00

Papermaking with Garden Plants and Common Weeds by Helen Hiebert, 108 pages, 10x9 1/4, softcover. W

9894: *Papermaking with Garden Plants...* (1#)/\$11.75

The Teeth of the Lion by Anita Sanchez, 136 pages, 5x8, softcover.

9897: *The Teeth of the Lion* (1#)/\$11.75

Organic Growers Supply 2010, items 8000 and up, pages 109-137

	Item	How many	Description	Weight Each	Weight Total	Price Each	\$ 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 70F totals			

SUPPLIES & BOOKS