Cover Crop Seed
Grass Seed
Erosion Control
Amendments
plus
Garlic, Onion Sets, Tools, & Supplies

Please conserve our resources... Other suggested uses for this catalog include:
compost, mulch, snail bait, tea coaster, worm food, fly swatter, window washer, placemat, wallpaper, sunshade,
fan, table-leg wedge, outhouse stock, hat, birdcage liner, giftwrap, packing material, fire-lighter, oven cleaner,
umbrella, kite, funnel, shelf paper, megaphone, fairy house, paper plane (add a paperclip for nose-stabilization) ...
FALL IS A GREAT TIME
TO SEED A LAWN OR PASTURE

Most grasses prefer a pH of 6.5 to 7.0. In this area, calcium is required and can be obtained from oyster shell lime and/or dolomite (if the pH is below 7.0) or gypsum (if the pH is above 7.0). Don’t use dolomite if you have a heavy clay soil as it contains magnesium which is already at high levels in these types of soils here in the North Coast. Adding calcium is important for good plant growth, better water penetration through improved soil tilth, and disease resistance, and is especially important where chemical fertilizers have been used as they tend to make the soil more acidic.

We recommend fertilizing lawns with California Organic Fertilizer 7-5-7, at the rate of 3 to 5 pounds per 100 sq. ft. Two applications per year, spring and fall, are sufficient with this slow-release fertilizer. See page 13 for complete pricing information on this fertilizer.

PLANTING A COVER CROP

Why plant a cover crop? To put it simply, to help heal the earth and make it a better place for crop plants to grow. Cover crops can be the only practical method of supplying organic matter at high enough levels to maintain a high state of productivity. Organic matter itself is good for improving soil friability, tilth, and water penetration. Save time, fuel and labor by mowing instead of discing and reduce soil compaction by fewer trips through the field.

As organic matter decays and forms humus, it can provide nitrogen and other soil nutrients for succeeding crops. The soil microorganisms that feed on covercrop residue contribute to a healthier soil ecosystem and help prevent plant diseases and nematode outbreaks. Erosion takes away valuable top soil containing important nutrients needed for plant growth. Even though you may not see any gullies or other visible forms of erosion, most bare land will erode with almost any amount of rainfall.

For severely eroded locations, Blando brome and Zorro fescue are probably the best as they both do well in poor fertility situations. As preventative measures, annual and perennial rye grass are much less expensive to seed but will grow quite a bit taller than Blando or Zorro. Grasses do a better job of holding soil than clovers due to having a dense root system but they are not deeply rooted and will not aid in the break up of hardpan or allow much infiltration. There are many hillside vineyards who have planted a mix of annual grasses and annual clovers for erosion control with good success.

Vigor and moisture management can also be controlled by the cover crop chosen. Use low-water requirement covers such as Zorro or Mokelumne fescue when water needs to be conserved. When areas are too wet or competition with the crop is desired, use high water users such as perennial ryegrass or Calif. brome. Competition can shorten canopy growth and reduce leaf to fruit ratio to improve earlier sugar development and color.

Cover crops also have benefit as insectary plants for attracting and feeding beneficial insects. Cover crops have been found to drastically reduce spider mites.

“GREEN MANURE”

In agriculture, a green manure is a type of cover crop grown primarily to add nutrients and organic matter to the soil. Typically, a green manure crop is grown for a specific period, and then plowed under and incorporated into the soil. Green manures usually perform multiple functions, that include soil improvement and soil protection:

* Leguminous green manures such as clover and vetch contain nitrogen-fixing symbiotic bacteria in root nodules that fix atmospheric nitrogen in a form that plants can use.
* Green manures increase the percentage of organic matter (biomass) in the soil, thereby improving water retention, aeration, and other soil characteristics.
* The root systems of some varieties of green manure grow deep in the soil and bring up nutrient resources unavailable to shallower-rooted crops.
* Common cover crop functions of weed suppression and prevention of soil erosion and compaction are often also taken into account when selecting and using green manures.
* Some green manure crops, when allowed to flower, provide forage for pollinating insects.

Historically, the practice of green manuring can be traced back to the fallow cycle of crop rotation, which was used to allow soils to recover.
For Mail Orders
or
Phone Orders

MAILING:
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Graton, CA 95444
(707)823-9125
FAX (707) 823-1734

sales@harmonyfarm.com
www.harmonyfarm.com

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Store Hours & Directions ............... Ext. 49
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(Monday-Friday, 9 A.M.-4:30 P.M.)

Special Orders ............................. Ext. 11, 12
(Monday-Friday, 8 A.M.-5 P.M.)

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Note to California customers: all items are taxable unless noted otherwise!

PRICE CHANGES
Prices are subject to change without notice.
**2nd Millennium Tall Fescue**  An “AQUAWISE” alternative to Bonsai Dwarf Fescue. This fescue is one of the fastest Tall Fescues to establish. Fine texture, dark green color, dense growth pattern. Holds up through Winter. Achieved high marks under a wide variety of conditions in NTEP trails. Typhula Blight Resistance. 
Use 10 lb./1000 sq. ft. or 250-400 lb./acre.

**BONSAI 3000 DWARF FESCUE** A slower growing grass, heat, shade and drought tolerant, darker green and finer texture than other fescues. Use for low maintenance lawns (40% less mowing than other fescues). Use 10 lb./1000 sq. ft. or 250-400 lb./acre.

**CREEPING RED FESCUE** Fine leafed fill in grass adapted to poorer soils, acid tolerant, does well in sun or shade. Recommended for lawns, pastures, & ground cover on hillsides. Best grass for shade. Use 10 lb./1000 sq. ft. or 250-400 lb./acre.

**DICHRONDRA MICANATHA** Great lawn for small spaces or between stepping stones. Full sun or partial shade. Regular to heavy watering needed. Use 1 lb./300 sq. ft.

**PACIFIC LAWN & PARK BLEND** Use where very green lawn is desired. (35% Premier II Perennial Ryegrass, 35% Pinnacle II Perennial Ryegrass, 15% Kentucky Blue, 10% Creeping Red Fescue, 5% Chewings Fescue). Use 4-5 lb./1000 sq. ft. or 150-200 lb./acre.

**PLB** $1.628 /lb 50+ lbs $2.17 /lb 1 - 49 lbs

**PACIFIC LIVING TALL FESCUE BLEND** Drought tolerant, high disease resistance, good for high traffic areas. Finer texture than regular tall fescues. Turf type tall fescues (34% Anthem II, 33% Granada II, and 33% Aztec II) Use 10 lb./1000 sq. ft. or 250-400 lb./acre.

**TCF** $1.463 /lb 50+ lbs $1.95 /lb 1 - 49 lbs

**SUN AND SHADE LAWN SEED MIX** Use for both sunny and shady lawn areas. (35% Premier II Perennial Rye, 35% Pinnacle Perennial Rye, 15% Kentucky bluegrass, 10% Creeping Red fescue, and 5% Chewings fescue). Use 4-5 lb./1000 sq. ft. or 150-200 lb./acre.

**SAS** $1.433 /lb 50+ lbs $1.91 /lb 1 - 49 lbs

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**GRAINS, GRASSES & EROSION CONTROL SEED**

Hordeum vulgare. Produces lots of organic matter with fast winter growth. Tolerates wide range of soil conditions. More drought tolerant than oats. Use 2-3 lb./1000 sq. ft. or 100 lb./acre.

**ORGBARLEY** $0.518 /lb 50+ lbs (UC 937) $0.69 /lb 1 - 49 lbs

**BARELY** $0.293 /lb 50+ lbs (UC 937) $0.39 /lb 1 - 49 lbs

**HOCKETT MALTING BARLEY** This variety of barley is a rough-awned two-rowed dry-land malting barley that “heads” four days earlier than Harrington. In addition, Hockett retains plump characteristics, test weight, and lower grain protein percentage in dry land farming. This variety is geared toward drier regions and not irrigation farming. Use 2-3 lb./1000 sq. ft or 100 lb./acre.

**HOMBARLEY** $0.600 /lb 50+ lbs $0.80 /lb 1 - 49 lbs

**BUCKWHEAT** Fagopyrum esculentum is a versatile crop to grow. Benefits come in the form of soil improvement, attracting certain beneficial insects and is also used to control weeds.

**ORGBW** $1.403 /lb 50+ lbs $1.87 /lb 1 - 49 lbs

**FORERUNNER TRITICALE** Triticale is a hybrid of wheat (triticum) and rye (secale). Forerunner is an awnless or beardless (without the seed bristles) variety of this cereal seed. Early root growth and the ability to tie up excess Nitrogen and Phosphorus makes it an excellent forage or green manure crop. Fall or early Spring planted. Can grow up to 60” tall. An excellent companion to vetches or peas. Resistant to current races of stem and leaf rust. Use 2-3 lb./1000 sq. ft. or 100 lb./acre.

**ORGFTR** $0.563 /lb 50+ lbs (ORGFTR is a non stock item, available via special order only)

**BUNKER TRITICALE** Triticale is a hybrid of wheat (triticum) and rye (secale). Early root growth and the ability to tie up excess Nitrogen and Phosphorus. Also helps with water penetration and erosion control. Fall or early Spring planted. Can grow up to 60” tall. Use 2-3 lb./1000 sq. ft. or 100 lb./acre.

**ORGBTR** $0.533 /lb 50+ lbs $0.71 /lb 1 - 49 lbs

**CEREAL RYEGRAIN (SUB MERCED RYE)** Secale cereale. Rye grain produces large quantities of organic matter. 36-72” tall. Will grow on any soil. Extremely cold hardy. Great pollen source for ladybugs in spring. Use 2-3 lb./1000 sq. ft. or 90-160 lb./acre.
<table>
<thead>
<tr>
<th>Product</th>
<th>Price 50+ lbs</th>
<th>Price 1-49 lbs</th>
<th>Note</th>
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<tbody>
<tr>
<td>ORGCR</td>
<td>$0.900</td>
<td>$1.20</td>
<td>certified organic CR</td>
</tr>
<tr>
<td>CR</td>
<td>$0.548</td>
<td>$1.08</td>
<td>CR is a non stock item, available via special order only</td>
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<tr>
<td>Blando Brome (Bromus mollis)</td>
<td></td>
<td></td>
<td>Reliable reseeding winter growing annual grass, up to 30 inches tall, with dense fibrous roots. Drought tolerant, strong seedling vigor. Recommended to plant with Zorro fescue for erosion control (8 lb. Blando &amp; 16 lb. Zorro). Also, has nematocidal properties. Use 1 lb./1000 sq. ft., 10-15 lb./ acre.</td>
</tr>
<tr>
<td>Hold Tight Grassland Mix</td>
<td>$2.670</td>
<td>$3.56</td>
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<tr>
<td>Fawn Tall Fescue (Festuca arundinacea)</td>
<td>$1.350</td>
<td>$1.80</td>
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<tr>
<td>Cayuse White Oats (Elymus glaucaus)</td>
<td>$0.563</td>
<td>$0.75</td>
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<tr>
<td>Erosion Control Mix (50% Blando Brome, 50% Tri-folium subclovers with Certified Organic rhizobia coated seed.)</td>
<td>$2.610</td>
<td>$3.48</td>
<td>Use for permanent erosion control. Fall planted. Use 1 lb./1000 sq. ft. or 20-30 lb./ acre.</td>
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<tr>
<td>Zorro Fescue (Vulpia myuros)</td>
<td>$3.893</td>
<td>$5.19</td>
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<td>Winter Oats - Hard Red</td>
<td>$0.585</td>
<td>$0.78</td>
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<tr>
<td>Winter Wheat - Hard Red - Certified Organic</td>
<td>$0.653</td>
<td>$0.87</td>
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<tr>
<td>Perennial Rye Grass (Tetraploid)</td>
<td>$5.903</td>
<td>$7.87</td>
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<tr>
<td>Zephyr Fescue (Vulpia Myuros)</td>
<td>$1.163</td>
<td>$1.55</td>
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<td>ORGWHT</td>
<td>$0.503</td>
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<td>ORGWHT</td>
<td>$0.848</td>
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<tr>
<td>BIG 3 Summer Dormant Perennial Grass Mix</td>
<td>$13.643</td>
<td>$18.19</td>
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LITTLE 3 SUMMER DORMANT PERENNIAL GRASS MIX (33.3% Molate red fescue (Festuca rubra); 33.3% Idaho fescue (F. idahoensis); and 33.3% Mokelumne red fescue (F. rubra).) 8-24” tall. Recommended as a weed competitor cover crop for under the vine row in vineyards.
Use 1 lb./1000 sq. ft., 25-30 lb./acre.

LITTLE3 $11.003 /lb 50+ lbs
$14.67 /lb 1 - 49 lbs

MEADOW GRASSLAND MIX (40% Molate red fescue (Festuca. rubra) 25% Idaho fescue (F. idahoensis) 25% Bighorn sheep fescue (F. ovina ‘Bighorn”) and 10% California wildflower mix.) Drought tolerant, summer dormant, fine-leaved grass blend that can be left unmowed, grows to 1-1.5 ft. tall. Can be used in traditional landscape areas or transition zones to natural surroundings.
Use 2 lb./1000 sq. ft.; 92 lb./acre.

MGM $11.723 /lb 50+ lbs
$15.63 /lb 1 - 49 lbs

ANNUAL RESEEDING COVER CROP SEEDS

Annual cover crops are recommended where organic matter is needed to increase humus levels and fertilizer availability, by providing conditions for beneficial soil microorganisms that cannot survive where soil organic matter is below 1.5%. Winter growing annuals are best for dry farmed perennial crops and gardens. Sow in the fall and turn under in the following spring.

Legumes are the preferred cover crop for green manure. They “fix” nitrogen from the air into a form readily available by plants. They are easily tilled or disced into the soil during spring and decay rapidly.

Legume & Non-Legume Blend

ORGANIC MATTER MAXIMIZER™ (65% Bell beans, 35% UC 937 Barley).
Adds tremendous amounts of organic matter. Fall sown. Use 2-3 lb./1000 sq. ft. or 100 lb./acre.

ORGOMMM $0.630 /lb 50+ lbs
$0.84 /lb 1 - 49 lbs

OMM $0.413 /lb 50+ lbs
(conventional blend - available by special order only)

ECONOMY VINEYARD BLEND (10% Common Vetch, 10% Austrian Winter Pea, 15% Field Pea, 35% Bell Bean, 15% Barley, 15% Forerunner Triticale )
This blend is a great all around cover crop. This blend will cover most of your cover crop needs. Use 2-3 lb./1000 sq. ft. or 100 lb./acre.

EVB $0.510 /lb 50+ lbs

NOT SOLD LESS THAN 50# BAG

ORGANIC AMIGO BOB’S VINEYARD BLEND (certified organic) (20% Austrian Winter pea, 20% Biomaster/4010 field pea, 20% Hairy vetch and 25% Purple vetch.)
Use 2-3 lb./1000 sq.ft. or 100 lb./acre.

ORGABVB $1.050 /lb 50+ lbs
$1.40 /lb 1 - 49 lbs

Non Legumes (will not fix nitrogen)


YM $1.268 /lb 50+ lbs
$1.69 /lb 1 - 49 lbs

Legumes & Legume Blends

All of the following legumes fix 70-150 lb. of nitrogen per acre per winter if disced in at 10% bloom and inoculated with Rhizobium bacteria at time of planting.

Winter Growing

Plant these in the fall, usually Sept to Nov. They are all frost hardy.

4010 FIELD PEAS A terrific field pea comparable to the Biomaster Pea but is taller and a better forage pea.
Use 2-3 lb/1000 sq. ft. or 100-120 lb/ acre.

ORG4010P $0.720 /lb 50+ lbs
$0.96/lb 1 - 49 lbs

certified organic

BIOMASTER PEA Pisum arvense. This pea was developed for maximum biomass. Germinates and grows a couple of weeks earlier than Magnus Peas. Fall planted.
Use 3-5 lb/1000 sq. ft. or 100-120 lb/ acre.

ORGBMP $0.720 /lb 50+ lbs
$0.96/lb 1 - 49 lbs

certified organic

AUSTRIAN WINTER PEAS (Pisum sativum subsp. arvense) Recommended to plant Oct.-Dec. Prefer better drained and close to neutral pH soil. Good winter growing variety. Recommended where early plow-down is anticipated. Lots of biomass! Also a great pea for livestock forage.
Use 100-120 lb./acre.

ORGAWP $0.743/lb 50+ lbs
$0.99/lb 1 - 49 lbs

certified organic

MAGNUS FIELD PEAS (call for availability) Out-produces Austrian peas and blooms up to 60 days earlier.
Use 2-3 lb/1000 sq. ft. or 100-120 lb/ acre.
<table>
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<tr>
<th>Crop Name</th>
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<th>Price (Conventional)</th>
<th>Description</th>
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<td>ORGMFP</td>
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<td>$0.458 /lb</td>
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<tr>
<td>COMMON VETCH</td>
<td>$1.088 /lb</td>
<td>$0.668 /lb</td>
<td>(organic - available by special order only)</td>
<td>50+ lbs</td>
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<tr>
<td>LANA WOOLYPOD VETCH</td>
<td>$1.36 /lb</td>
<td>$0.893 /lb</td>
<td>(organic - available by special order only)</td>
<td>50+ lbs</td>
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<tr>
<td>PURPLE VETCH</td>
<td>$1.193 /lb</td>
<td>$0.900 /lb</td>
<td>(conventional seed - available by special order only)</td>
<td>50+ lbs</td>
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<tr>
<td>HAIRY VETCH</td>
<td>$1.463 /lb</td>
<td>$1.463 /lb</td>
<td>(conventional seed - available by special order only)</td>
<td>50+ lbs</td>
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<tr>
<td>BELL BEANS</td>
<td>$0.690 /lb</td>
<td>$0.398 /lb</td>
<td>(organic - available by special order only)</td>
<td>50+ lbs</td>
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<tr>
<td>FAVA BEANS</td>
<td>$1.168 /lb</td>
<td>$0.398 /lb</td>
<td>(organic - available by special order only)</td>
<td>50+ lbs</td>
</tr>
</tbody>
</table>

**Legume Inoculant**

Rhizobium leguminosarum bacteria inoculant for peas, vetch, lentils, bell & fava beans. The bacteria fix nitrogen from the air.

Farm-size treats 50 lbs. of seed.

LIP $8.69/pkg. (SW 1#)
20 or more pkg. $7.386/pkg. (SW 5#)
40 or more pkg. $6.517/pkg. (SW 10#)
Garden size treats 8 lbs. of seed

LIG $6.69 each (SW 1 #)
Permanent cover crops are recommended where erosion control is needed or a permanent plant cover is desired to provide habitat for beneficial insects, better water infiltration and ability to move vehicles on the ground during the rainy season. Most permanent cover crops require at least some supplemental irrigation during the summer except for the annual clovers and summer dormant grasses. Also, they all require some mowing, especially in the first few years to help establish the cover crop. Clover seed is inoculated with the appropriate Rhizobium bacteria for optimum nitrogen fixation.

TIPS FOR SUCCESS WITH CLOVERS
Make sure soil calcium and phosphorus levels are close to being adequate. Soil pH should be close to 6.0 or higher. Nitrogen levels are not critical. In fact, it is not recommended to give extra nitrogen to clovers or they will not work as hard to fix nitrogen.

The most critical step with clovers is to TAMP THE SEED INTO THE SOIL ONCE BROADCASTED. If you drill the seed in with a Brillion seeder it will do the tamping for you. On a small scale, a lawn roller or jumping up and down on a sheet of plywood will work.

Annuals for Permanent Cover
Most of the annual clovers are typically planted in the fall so they can take advantage of the winter rains. Most will not do well if planted at other times.

ANNUAL SUBTERRANEAN CLOVER MIX - ORGANIC COAT (25% Dalkeith, 25% Denmark, 25% Koala, and 25% Nungarin.) This blend of early, mid, and late growing clovers is recommended for dryland or drip irrigated orchard and vineyard rows. Winter, Fall, and Spring growing annual clovers reseed themselves and with mowing become the dominant cover. They go to seed by the end of May, leaving a dead mulch on top of the ground until fall when seeds germinate.

CERTIFIED ORGANIC Nitro-Coat rhizobia.
Use 1 lb./1000 sq. ft, 25-30 lb./acre (drilled).

ACMOC $2.498/lb 50+ lbs
$3.33/lb 1 - 49 lbs

CRIMSON CLOVER - ORGANIC COAT (Trifolium incarnatum) 12-18” tall clover with very showy red flowers, blooms in May. Will take most well-drained soils and shade. Reseeds if allowed to seed.

CERTIFIED ORGANIC Nitro-Coat rhizobia.
Use 1 lb./1000 sq. ft., 25-30 lb./acre (drilled).

CCOC $1.298 /lb 50+ lbs
$1.73 /lb 1 - 49 lbs

ROSE CLOVER - HYKON ORGANIC COAT, (Trifolium hirtum) 6-18” tall clover with pale pink button blossoms in May. Well adapted to wide variety of climatic & soil conditions. Use for permanent cover crop & erosion control.

CERTIFIED ORGANIC Nitro-Coat rhizobia.
Use 1 lb./1000 sq. ft., 25-30 lb./acre (drilled).

RCOC $1.943 /lb 50+ lbs
$2.59 /lb 1 - 49 lbs

BERSEEM CLOVER Excellent forage clover and companion to oats or alfalfa. High nitrogen fixer. Fall planted.

CERTIFIED ORGANIC Nitro-Coat rhizobia.
Use 1 lb./1000 sq. ft. or 25-30 lb./acre (drilled).

BCOC $1.688/lb. 50+ lbs
$2.25/lb. 1 - 49 lbs.

Perennials for Permanent Cover
Unless you live in a frost free area, spring is the best time to plant perennials. While the plants stay green year round, if watered, they basically go dormant when the ground gets cold.

Use 1 lb./1000 sq. ft. or 25-30 lb./acre.

ORGALF $ 8.190/lb 50+ lbs
$10.92/lb 1 - 49 lbs

KENLAND RED CLOVER (Trifolium pratense) Tall growing legume with erect, leafy stems with pink-purple or magenta flower heads. Branched taproot and extensive surface roots. Fall and Winter growth is slow, but Spring growth is rapid. Tolerates a wide range of soils from loam to clay.
Use 1 lb./1000 sq. ft. or 15 lb./acre.

OROKRC $4.928 /lb 50+ lbs
$6.57 /lb 1 - 49 lbs

PALESTINE STRAWBERRY CLOVER - ORGANIC COAT, (Trifolium fragiferum) 14” low growing perennial legume which forms a dense mat with lateral anchor type roots going 4-6’ deep and broad lateral roots. Excellent in orchards, vineyards, and pastures. Tolerates wide range of soil conditions and mowing/graazing. Ornamental light pink blooms attract beneficial insects. Plant in fall or spring at 1/4”-1/2” depth.

CERTIFIED ORGANIC Nitro-Coat rhizobia.
Use 1 lb./1000 sq. ft. or 15 lb./acre.

PSCOC $4.433 /lb 50+ lbs
$5.91 /lb 1 - 49 lbs

WHITE DUTCH CLOVER - ORGANIC COAT (Trifo-
lium repens) Low-growing perennial clover recommended for lawns or undersowing in vegetable beds a la Fukuoka “One-Straw Revolution”. Must be watered in summer. Best planted in spring **CERTIFIED ORGANIC Nitro-Coat rhizobia**. Use 1 lb./1000 sq ft, 20-30 lb./acre.

### WDCOC

- **$2.423 /lb 50+ lbs**
- **$3.23 /lb 1 - 49 lbs**

---

## PASTURE MIXES

### GENERAL PURPOSE PASTURE

(45% Potomac Orchardgrass, 25% Tetraploid Perennial Ryegrass, 15% Tetraploid Annual Ryegrass, 10% New Zealand White Clover, 5% Strawberry Clover with **Certified organic Nitro-Coat rhizobia**). Recommended for horses and other animals, both for irrigated and dry-farmed. Use 1 lb./1000 sq ft. or 25-35 lb./acre.

**GPPMOC**

- **$2.048 /lb 50+ lbs**
- **$2.73 /lb 1 - 49 lbs**

### NORTHCOAST DRYLAND LIVESTOCK MIX

(45% Perennial Tetraploid ryegrass, 25% Potomac Orchardgrass, 10% Mt.Barker subclover, 10% Woogenlup, 10% Denmark subclover with **Certified organic Nitro-Coat rhizobia**). Extra clovers for all grazing animals. Use 1 lb./1000 sq ft. or 25-35 lb./acre.

**DLPMOC**

- **$2.063 /lb 50+ lbs**
- **$2.75 /lb 1 - 49 lbs**

### NORTHCOAST DRYLAND PASTURE MIX

(45% Perennial Tetraploid ryegrass, 25% Potomac Orchardgrass, 10% Mt. Barker subclover, 10% Alfalfa, 10% Crimson Clover, 5% Hykon Rose Clover with **Certified organic Nitro-Coat rhizobia**). For all grazing animals. Use 1 lb./1000 sq ft. or 25-35 lb./acre.

**NDPMOC**

- **$2.460 /lb 50+ lbs**
- **$3.28 /lb 1 - 49 lbs**

### DRYLAND HORSE PASTURE MIX

Specially blended for horse pastures with drought tolerant plants in mind. Great forage with all animals in mind. (55% Perennial Ryegrass, 25% Potomac Orchardgrass, 10% Tetraploid Annual Ryegrass, 5% Palestrin Strawberry clover, 5% Mt.Barker Subclover with **Certified organic Nitro-Coat rhizobia**). Use 1 lb./1000 sq ft. or 25-35 lb./acre.

**DHPMOC**

- **$1.838 /lb 50+ lbs**
- **$2.45 /lb 1 - 49 lbs**

### ALL GRASS HORSE PASTURE MIX

Specially blended for horse pastures in mind. No clovers! Applications with drought tolerant plants in mind. Great forage for all animals as well. (50% Tetraploid Perennial Ryegrass, 30% Orchardgrass, & 20% Tetraploid Annual Ryegrass). Use 1 lb./1000 sq ft. or 25-35 lb./acre.

**AGPM**

- **$1.950 /lb 50+ lbs**
- **$2.60 /lb 1 - 49 lbs**

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## WILDFLOWERS

**WILDFLOWERS PLANTING WILDFLOWERS**

Fall is the time to plant these annual and perennial native and introduced wildflowers. For best results, remove weeds, then loosen top 1” of soil, level with a garden rake and scatter seeds evenly over the area. Mulch evenly with a fine layer of peat moss or compost 1/8” deep and water with a fine spray. After seedlings appear (which may take 2-6 weeks), water only as necessary. Once established, these wildflowers will bloom year after year, as long as you let them go to seed in the spring when they are done flowering.

### Wildflower Mixes

**SONOMA COUNTY SPLENDOR MIX**


<table>
<thead>
<tr>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4 lb.</td>
<td>SCS14 $12.29 (SW 1#)</td>
</tr>
<tr>
<td>1 lb.</td>
<td>SCS $34.12 (SW 2#)</td>
</tr>
<tr>
<td>5 lb.</td>
<td>SCS $30.708/lb (SW 7#)</td>
</tr>
<tr>
<td>10 lb.</td>
<td>SCS $29.002/lb (SW 7#)</td>
</tr>
</tbody>
</table>

**LACY PHACELIA**

(Phacelia Tanacetifolia) Grows 6”-47” tall with light blue to purple flowers. Quick to grow and flower. Grows well in dry soil. Full sun. Listed as one of the top 20 honey producing flowers for honeybees. Highly attracted by syrphid flies (voracious feeders on aphids and young caterpillars.) Flowers abundantly for long periods and increases pollinators and beneficials. Use 11-18 lbs/ acre 1/4 - 1/2 lbs/ 1000 sq.ft. 1/4 lb.  PT14 $4.19 (SW 1#) 1 lb. PT $9.95 (SW 2#) 5 lb. PT $8.955/lb (SW 7#) 10 lb. PT $8.457/lb (SW 7#)
CALIFORNIA BRILLIANT WILDFLOWER MIX
Use 7 lb./acre. 1/4 lb. seeds 1500 sq. ft.

<table>
<thead>
<tr>
<th>1/4 lb.</th>
<th>CB14</th>
<th>$9.79</th>
<th>(SW 1#)</th>
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<tbody>
<tr>
<td>1 lb.</td>
<td>CB</td>
<td>$27.99</td>
<td>(SW 2#)</td>
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<tr>
<td>5 lb.</td>
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<tr>
<td>10 lb.</td>
<td>CB</td>
<td>$23.79/lb</td>
<td>(SW 7#)</td>
</tr>
</tbody>
</table>

NATIVE CALIFORNIA WILDFLOWER SEED MIX
Contains White Yarrow, Farewell to Spring, Chinese Houses, California Poppy, Globe Gilia, Goldfields, Tidy Tips, Blue Flax, Golden Lupine, Arroyo Lupine, Baby Blue Eyes, California Bluebell, Blue Eyed Grass, and Mule’s Ears. These are all Native Species, none of them are naturalized species. Produces flowers that bloom through spring, summer and fall. Approx. 600,000 seeds/lb.
Use 7 lb./acre. 1/4 lb. seeds 1500 sq. ft.

<table>
<thead>
<tr>
<th>1/4 lb.</th>
<th>NC14</th>
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<th>(SW 1#)</th>
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<tbody>
<tr>
<td>1 lb.</td>
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<tr>
<td>10 lb.</td>
<td>NC</td>
<td>$24.607/lb</td>
<td>(SW 7#)</td>
</tr>
</tbody>
</table>

DEERPROOF FLOWER BORDER MIX
While we hate to label anything “deerproof”, this mix has withstood extensive testing and is not preferred for browsing by deer. A truly colorful and attractive garden mix containing both annual and perennial seeds. (Yarrow, coreopsis, common foxglove, California poppy, blanket flower, Gazania splendens, sweet alyssum, 5 types of lupine, Shirley poppy, gloriaosa daisy, and blue-eyed grass) Use 6 lb./acre. 1/4 lb. seeds 1800 sq. ft.

<table>
<thead>
<tr>
<th>1/4 lb.</th>
<th>DPF14</th>
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<tr>
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<td>10 lb.</td>
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<td>$36.507/lb</td>
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NORTH AMERICAN LOW-GROWING WILDFLOWER MIX

<table>
<thead>
<tr>
<th>1/4 lb.</th>
<th>NALGW14</th>
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<tbody>
<tr>
<td>1 lb.</td>
<td>NALGW</td>
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<td>(SW 2#)</td>
</tr>
<tr>
<td>5 lb.</td>
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<tr>
<td>10 lb.</td>
<td>NALGW</td>
<td>$25.457/lb</td>
<td>(SW 7#)</td>
</tr>
</tbody>
</table>

NORTH AMERICAN PARTIAL SHADE WILDFLOWER MIX
Contains wildflowers that can tolerate a shadier environment. Needs at least four hours of direct sunlight per day. Includes Columbine, Dwarf Cornflower, Wallflower, Shasta Daisy, Mountain Garland, Chinese Houses, Lanceleaf Coreopsis, Chinese Forget-me-not, Wild Foxglove, Purple Coneflower, Dame’s Rocket, Annual Baby’s Breath, Toadflax, Alyssum, Forget-me-not, Five Spot, Baby Blue Eyes, Flanders Poppy, Rocky Mountain Penstemon, Black-eyed Susan, Catchfly and Johnny-jump-up. Approx. 692,000 seeds/lb.
Use 7 lb./acre. 1/4 lb. seeds 1500 sq. ft.

<table>
<thead>
<tr>
<th>1/4 lb.</th>
<th>NAPS14</th>
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<tbody>
<tr>
<td>1 lb.</td>
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<td>NAPS</td>
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<tr>
<td>10 lb.</td>
<td>NAPS</td>
<td>$21.632/lb</td>
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</table>

Insectary Mixes

HARMONY INSECTARY PLANT BLEND™ Increase beneficial insects (predators & parasites). Plant swaths through crop areas. Contains White and Yellow Sweet Clover, Yarrow, herbs including Cilantro, Caraway, Fennel, and Parsley, Alyssum, Cosmos, and Tidy Tips. Use 10-15 lb./acre. 1/4 lb. seeds 750 sq. ft.

<table>
<thead>
<tr>
<th>1/4 lb.</th>
<th>IPB14</th>
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<tr>
<td>10 lb.</td>
<td>IPB</td>
<td>$11.857/lb</td>
<td>(SW 7#)</td>
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</tbody>
</table>

BENEFICIAL BLEND™ The cheaper mix for encouraging beneficials with Barley, Cereal Rye, Subclover, Vetch, Crimson Clover, Yellow and White Blossom Sweet Clover, Alfalfa, Mustard, herbs, vegetables, Alyssum, Buckwheat and others. Use 10-15 lb./acre. 1 lb seeds 4300 sq.ft.

<table>
<thead>
<tr>
<th>1/4 lb.</th>
<th>LBB14</th>
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<tbody>
<tr>
<td>1 lb.</td>
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<td>5 lb.</td>
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<tr>
<td>10 lb.</td>
<td>LBB</td>
<td>$3.697/lb</td>
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</table>

Wildflower Species

BACHELOR’S BUTTON (Centaurea cyanus) Grows 2.5’ tall, mixed colors (cream, pinks, dark purple) flowers. Blooms spring-summer. Likes full sun, drought tolerant. Use for roadsides, meadows, mixes. Use 4 lb./acre. 1/4 lb. seeds 2500 sq.ft.

<table>
<thead>
<tr>
<th>1/4 lb.</th>
<th>CCY14</th>
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<tbody>
<tr>
<td>1 lb.</td>
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<td>CCY</td>
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<tr>
<td>10 lb.</td>
<td>CCY</td>
<td>$9.562/lb</td>
<td>(SW 7#)</td>
</tr>
</tbody>
</table>

FAREWELL-TO-SPRING (Clarkia amoena) Grows 18” tall, pink and red flowers, reseed. Very showy na-
Use 2 lb./acre. 1/4 lb. seeds 5000 sq. ft.
1/4 lb.  CA14  $9.29  (SW 1#)
1 lb. CA $26.65 (SW 2#)
5 lb. CA $23.895/lb. (SW 7#)
10 lb. CA $22.567/lb (SW 7#)

ARROYO LUPINE (Lupinus succulentis) Grows 2-4’ tall with blue flowers, reseeds. Blooms spring, summer. Likes full sun, moderate water. Use for ravines, flats and slopes, hillsides, fields, and roadsides. Often seen along the roadside. Easily grown. Use 20 lb./acre. 1/4 lb. seeds 500 sq. ft.

(B) Limited supply available (B)
1/4 lb. AL14 $12.49 (SW 1#)
1 lb. AL $34.95 (SW 2#)
5 lb. AL $31.455/lb. (SW 7#)
10 lb. AL $29.707/lb (SW 7#)

BABY BLUE EYES (Nemophila menziesii) Grows 10” tall with blue flowers, reseeds. Blooms spring-summer. Likes partial shade to shade but will tolerate full sun. Recommended for woodland edges, grasslands, and borders. Prolific bloomer, easily grown. Use 8 lb./acre. 1/4 lb. seeds 1200 sq. ft.
1/4 lb. NEM14 $14.49 (SW 1#)
1 lb. NEM $41.35 (SW 2#)
5 lb. NEM $37.215/lb. (SW 7#)
10 lb. NEM $35.147/lb (SW 7#)

CALIFORNIA POPPY (Eschscholzia californica) Grows 18” tall, pretty orange flowers, will bloom all season in irrigated situations. Use for hillsides, roadsides and wildflower mixes.
Use 8 lb./acre. 1/4 lb. seeds 1200 sq. ft.
1/4 lb. CAP14 $6.69 (SW 1#)
1 lb. CAP $19.04 (SW 2#)
5 lb. CAP $17.136/lb. (SW 7#)
10 lb. CAP $16.184/lb (SW 7#)

SHIRLEY POPPY (Papaver rhoeas) Grows 3’ tall, mixed brilliant color flowers, reseeds. Blooms spring-summer. Likes full sun, low to moderate water.
Single. Recommended for roadsides, fields, meadows, mixtures.
Use 1 lb./acre. 1/4 lb. seeds 11,000 sq. ft.
1/4 lb. PR14 $7.79 (SW 1#)
1 lb. PR $22.25 (SW 2#)
5 lb. PR $20.025/lb. (SW 7#)
10 lb. PR $18.912/lb (SW 7#)

AMERICAN LEGION POPPY (Papaver rhoeas) Grows 1-2’ tall, bright red flowers, reseeds. Summer annual. Likes full sun, low to mod. water. Recommended for roadsides, fields, meadows, mixtures. Use 1 lb./acre. 1/4 lb. seeds 11,000 sq. ft.
1/4 lb. PRR14 $7.79 (SW 1#)
1 lb. PRR $22.25 (SW 2#)
5 lb. PRR $20.025/lb. (SW 7#)
10 lb. PRR $18.912/lb (SW 7#)

SEEDING TOOLS/SUPPLIES

**CHAPIN HANDSPREADER** Hopper holds about 1 lb. grass seed or 3 lb. clover seed. Spins out seed or fertilizer in a 8-12’ wide swath.
20125 $15.99 (SW 4#)

**PLANTMATE BELLY GRINDER SEEDER** Can be used for both seeding and spreading fertilizer. Waterproof nylon bag with zipper closure, molded base for hip support and hand grip. Precision gears sealed against dirt & grit with adjustable opening.
35160 $53.99 (SW 6#)

**SOLO PORTABLE SPREADER**
Designed for spreading seed or fertilizer with a crank handle, comfortable cross-shoulder strap and fully enclosed gearbox with a 20 pound capacity hopper.
4217 $89.99 (SW 7#)

**JUTE EROSION CONTROL NETTING** (see page 18)

**PROFESSIONAL LANDSCAPE FABRIC 3.0 oz/sq. yd.** spunbound fabric lets air, water and fertilizer through. Ideal under mulch, stones or gravel (won’t be torn).
3’ x 100’ 3301 $35.99 (SW 11#)

**FABRISCAPE PROFESSIONAL LANDSCAPE FABRIC 3.1 oz./sq. yd.** nonwoven fabric lets water, air & fertilizer pass through. Stops 95% of weed growth. Can also be used as underliner for patios & walkways, and filter fabric for drain pipes. Permanent when covered from sunlight.
3’ x 50’ 31350 $21.99 (SW 6#)
3’ x 100’ 313100 $39.49 (SW 13#)

**LUMITE WOVEN GROUND COVER** Woven plastic fabric lets air, water and fertilizer through. Used under stone or concrete walkways and mulch.
3’ x 300’ 48102 $89.49 (SW 29#)
4’ x 300’ 48103 $120.00 (SW 39#)
6’ x 300’ 48104 $163.00 (SW 59#)
GARLIC

GROWING GARLIC
Use 1000 lb./acre garlic bulbs, 1800-2400 lb./acre elephant garlic. Plant softneck garlic 2” apart, 2” deep, in rows 26” apart; plant hardneck garlic 4” apart, 2” deep, rows up to 36” apart. Elephant garlic, plant 6-8” apart, 3-4” deep, in rows 26” apart. Rows can be closer or further apart, depending on equipment needs. Plant from late September to November. Garlic planted later does not store as long. Plant in well-drained soil with good organic matter content as garlic is a heavy feeder. If your soil is too wet in the winter, plant in raised beds. Rotate plantings each year to a new area.

Low fertility areas should have manure tilled in before planting. Otherwise, begin sidedressing with composted manure, kelp, and/or greensand, from the middle of March to the middle of May, every 2-3 weeks. Along with clean cultivation, these fertilizer applications are the key to large garlic.

If you have irrigation, use it as soon as the soil begins to dry out, normally in April. Keep even moisture until the middle of June, then stop. A week or two later, dig up the garlic.

Be sure to cure garlic by hanging in bunches or pile up with all the bulbs exposed to the air, in the shade! Leave roots and stems on while curing. After 2-3 weeks of drying, start to clean by clipping roots and stems off, and removing loose skin and dirt from bulbs. Store in open-weave sacks in a dry place above freezing temp. If using old onion sacks, be sure to wash sacks first with mild bleach and water solution.

GROWING GREAT GARLIC by Ron Engeland. A must for garlic growers, this complete guide covers historical uses, cultivation, storage and marketing. PB 0963085018 $16.95 (SW 2#)

Softneck Garlic
All Softnecks are good for braiding and tend to store longer than Hardneck garlic (9-12 months). Softneck garlic is most commonly found in supermarkets all around the world. These varieties produce 6-18 cloves in several layers around the soft central stem. There are two types of Softneck garlic. The first variety is Silverskin, best identified by its many layers of papery white skin and has smaller and abundant cloves. The other variety is artichoke garlic. It tends to have fewer, larger cloves and a coarser wrapper. On occasion you will find it has purple blotches on the wrapper.

- **CALIFORNIA EARLY GARLIC** One of the most common garlic varieties grown. Large bulbs produce 12-16 good size cloves. Mild with a classic garlic flavor. Excellent for baking. Earlier maturing than California Late. Ripens in July. Stores about 6-8 months. Very easy to grow.

- **CALIFORNIA LATE GARLIC (PINK)** One of the most common garlic varieties grown. Large bulbs produce 12-16 good size cloves. More on the hot side with a classic garlic flavor. Later maturing than California Early. Ripens in July. Stores about 8-12 months. Great multi-use garlic, also is great baking. Very easy to grow.

  - **INCHELIUM RED** From Inchelium, Washington; on the Cowlitz Indian Reservation. The bulbs are large (up to 3+ inches in diameter). 8 - 12 cloves of good size. Mild, but lasting flavor, with a hint of hot! Dense cloves, stores well. Flavor can become stronger during storage. This vigorous soft-neck variety won a Rodale taste test of 20 garlic strains and was named “very best of the soft necks”

  - **LORZ ITALIAN** A rich flavored garlic with large bulbs. Has 10-18 cream colored cloves per head, with white wrappers occasionally streaked with purple. Bold spicy flavor with a medium amount of heat. Originally brought to Washington State’s Columbia River Basin in the early 1900’s by the Lorz family from Italy. This heirloom garlic is listed on the Slow Food USA Ark of Taste

- **MILD FRENCH** Milder than other silverskins and an excellent keeper. This is one of the best silverskins for clove size. Large cloves averaging 14-16 cloves per bulb. Buff outer wrapper covers skins that are blush pink to reddish pink

- **NORTHERN ITALIAN RED** This garlic has a sweet/spicy balance. The clove size is generally large and as a soft neck variety, is ideal for braiding. In 1974, Yael Bernier’s neighbor gave her 10 heads of this garlic to grow. Originating from northern Italy, this garlic is from those original heads of garlic.

1574002 **$23.49/lb.**

6019005 **$23.49/lb.**

6278001 **$23.49/lb.**

6019005 **$5.09/ 3oz pk**

1645000 **$23.49/lb.**
• **SICILIAN ARTICHOKE** This garlic is a good producer and has the capability for extended storing periods.

  1574001     $23.49/lb

• **SILVER WHITE** Originally a California variety this garlic is productive in cold winters, hot summers, and humid maritime climates. This variety shares similarities with Mild French and is a very productive.

  1574003     $23.49/lb

• **SUSANVILLE** An Artichoke garlic, Susanville has a long shelf life. One of the best varieties for roasting. The mild but true garlic flavor is a hit with all garlic fans. Good for braiding and stores for 6-9 months.

  1645013     $23.49/lb

• **NATIVE CREOLE** A creole garlic with a high sugar content, moderate heat and rich flavor. One of the longest-storing creoles of all the creole garlics.

  7-10 bright-colored evenly-sized cloves around a central hard stem. One of the best garlics for eating raw.

  1645006     $23.49/lb

• **SPANISH BENITEE** A creole variety originally from the Andalusia district of Spain. It is delicious, rich and easy to eat raw because of its mild nature. Rather than a hot taste, it has warmth that is pleasant and easy on the palate. It grows best in warm winter climates. Red wrappers covering a bulb that tends to be larger in size compared to other creoles. Long storage 8+ months, Where winters are milder (like our area) garlic is planted from October thru January.

  1645010     $23.49/lb

**Purple Stripe Group**

• **CHESNOK RED** Beautiful Purple striped wrappers. The best baking garlic. Very aromatic with a long lasting flavor. Often selected by restaurants for its fine flavor. Easy to peel and stores 4-6 months.

  1645003     $23.49/lb

• **SIBERIAN** An excellent producer in cold climates. 5-7 good sized cloves per bulb. Excellent flavor. Contains one of the highest amounts of allicin, making it perfect for eating raw in foods like salsa.

  1645008     $23.49/lb

• **PURPLE GLAZER** A very beautiful purple striped garlic. Contains 8-10 large cloves per bulb. Strong spicy flavor without the heat makes this an excellent baking garlic. Stores 4-6 months.

  6278000     $28.49/lb

**Rocambole Group**

• **ITALIAN RED** Rocamboles are considered to be the best-tasting of all garlic varieties. Italian Red Rocambole has a thin skin covering the cloves, making it easy to peel. The flavor is rich and complex and lends itself to being used either raw or cooked. The Italian Red is seldom harsh-tasting and caramelizes well because of its high sugar content.

  1645005     $23.49/lb

Hardneck garlic usually has up to a dozen cloves of a tan or brown color. Purple stripe garlic is highly distinctive because of its coloring of bright purple markings.
• **SPANISH ROJA** Gourmet garlic famous for flavor! Light purple streaks on 7-13 easy-to-peel cloves. Suited to colder climates. May not yield well where winters are too mild. Very popular with market gardeners and restaurants. Brought to the Northwest before 1900; often called “Greek Blue” by Northwest gardeners.

<table>
<thead>
<tr>
<th>Code</th>
<th>Price/ lb</th>
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<tbody>
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<td>$23.49/lb</td>
</tr>
<tr>
<td>Porcelain Group</td>
<td></td>
</tr>
</tbody>
</table>

• **ROMANIAN RED** 4-6 very large cloves per bulb. Easy to peel. Buff outer wrappers cover beautiful maroon skins. Hot and pungent when eaten raw. This garlic contains very high amounts of allicin.

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1645007</td>
<td>$23.49/lb</td>
</tr>
</tbody>
</table>

• **ASIAN TEMPEST** Large cloves with a purple wrapper. Early to harvest with a long storage. Fiery hot when eaten raw! Strong flavor even when cooked. Very productive and extremely reliable.

<table>
<thead>
<tr>
<th>Code</th>
<th>Price/ lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>1645002</td>
<td>$23.49/lb</td>
</tr>
</tbody>
</table>

• **CHINA STRIPE** A turban artichoke type garlic that tends to be one of the first to harvest in our area. Flavor tends to be rich and spicy, but generally quite mild and without the heat of so many garlic varieties. The bulbs have beautiful purple stripes and average 7 cloves per bulb.

<table>
<thead>
<tr>
<th>Code</th>
<th>Price/ lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>1645004</td>
<td>$23.49/lb</td>
</tr>
</tbody>
</table>

**Elephant Garlic**

• **ELEPHANT GARLIC** Not a true garlic but a member of the onion genus. It is actually a variant of the leek family. Huge bulbs contain 4-7 cloves. Very mild with a high sugar content. When cooking with it, use it to add a hint of flavor to foods. Plants grow 3-5 feet tall.

<table>
<thead>
<tr>
<th>Code</th>
<th>Price/ lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>EG</td>
<td>7.99/lb</td>
</tr>
</tbody>
</table>

**SHALLOTS**

A member of the onion family, but formed more like garlic than onions. Shallots are favored for their mild onion flavor, and can be used in the same manner as onions. A shallot looks like a small, elongated onion with a copper, reddish, or gray skin. When peeled, shallots separate into cloves like garlic. There are two main types of shallots: Jersey or “false” shallots (larger), and “true” shallots (more subtle flavor). Fresh green shallots are available in the spring, and dry shallots (dry skin/moist flesh) are available year-round. Shallots come in three sizes – small, medium and jumbo (the least tasty). The younger (smaller) the shallot, the milder the taste. Do not confuse shallots with green onions or scallions.

• **DUTCH YELLOW SHALLOTS** *(certified organic)* High-yielding and will produce bulbs 1.5-2” in diameter when well-grown. Yellow, cream-colored flesh with pungent flavor. Store very well.

<table>
<thead>
<tr>
<th>Code</th>
<th>Price/ lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>60192</td>
<td>$10.09/lb.</td>
</tr>
</tbody>
</table>

• **HOLLAND RED SHALLOTS** *(certified organic)* Excellent mild, rich onion flavor. Mid-sized, very tasty shallot. Very tolerant and can be grown in acidic soil down to 5.0 pH, but prefer 6.0-6.8 pH. Plant in fertile, well-drained soil.

<table>
<thead>
<tr>
<th>Code</th>
<th>Price/ lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>60193</td>
<td>$10.09/lb.</td>
</tr>
</tbody>
</table>

**ONION SETS**

• **YELLOW ROCK** These onions will yield good-sized onions with excellent storage characteristics. These are great cooking onions and will have a sweet taste once prepared in your favorite recipes.

<table>
<thead>
<tr>
<th>Code</th>
<th>Price/ lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>ONIONR</td>
<td>$4.59/lb</td>
</tr>
</tbody>
</table>

• **RED WETHERSFIELD** *(certified organic)* Large sized, skin-deep purplish-red, form is round, somewhat flattened. Flesh is purplish-white, moderately fine grained and stronger flavored than any of the other kinds. Very productive, the best keeper, and one of the most popular for general cultivation.

<table>
<thead>
<tr>
<th>Code</th>
<th>Price/ lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>ONIONW</td>
<td>$4.59/lb</td>
</tr>
</tbody>
</table>

**FALL FERTILIZING**

Fall is an excellent time to apply slow-release organic fertilizers. Winter rains can be very helpful in taking these materials down to the root zone of plants additionally, soil microorganisms will begin decomposing them and making nutrients available for plant uptake in the Spring.

If you’re not sure how much of what to add, consider a soil test. Soil testing can tell you how much fertilizer...
you need to apply, rather than how much you think you might need! It is also useful for diagnosing problems with plant growth.

### Soil Tests

1. **THE BASIC SOIL TEST**: If your plants are doing OK, this will tell you all you want to know. Includes pH, % organic matter, estimated nitrogen release, phosphorus, potassium, calcium, magnesium, cation exchange capacity, cation base saturations for calcium, magnesium, potassium, sodium and hydrogen. Not appropriate for compost, manure or potting soil mixes (see below). We will also give you fertilizer recommendations based on the test results. This test takes about two weeks (10 business days) for results to come back.

   **BASIC** $30.50

2. **THE COMPLETE SOIL TEST**: If you have been experiencing problems with plant growth or yields, we recommend getting this test done. Includes the BASIC test values, plus trace elements sulfur, zinc, copper, boron, manganese, and iron. Not appropriate for compost, manure or potting soil mixes (see below). Includes recommendations. This test takes about three weeks for results to come back.

   **COMPLETE** $65.50

### Calcium Sources

The following fertilizers are commonly applied in the fall. Those with the OMRI logo have been brand name approved for use by organic farmers.

**DOLOMITE** (46% CaCO3, 38.5% MgCO3) Calcium-magnesium carbonate limestone. Recommended for soils with low magnesium.

CDFA approved OMRI listed.

- 5 lb. **1133338** $5.29/box (SW 6#)
- 50 lb. **DOLOMITE50** $6.29/bag (SW 55#) (40 bags or more) $5.032/bag

**GYPSUM** (85% CaSO4 x 2 H2O, 15.6% S) Calcium sulfate. Recommended where high pH precludes use of limestone or where sulfur is needed.

- (granular) 5 lb. **1133318** $4.79/box (SW 8#)
- (solution grade) 10 lb. **GYP10** $5.89/bag (SW 15#)
- 50 lb. **GYP50** $7.69/bag (SW 55#) (40 bags or more) $6.15/bag

**OYSTER SHELL LIME** (96% CaCO3) Calcium carbonate limestone. Recommended where calcium and increasing pH (decreasing acidity) is desired. Lasts 4-5 yrs in the soil.

- 10 lb. **OYSTER10** $6.89/bag (SW 12#)
- 50 lb. **OYSTER50** $9.99/bag (SW 55#) (40 bags or more) $7.99/bag

### NITROGEN SOURCES

**ALFALFA MEAL** *(2.5-1-1)* Highly recommended for roses. Use 2.5-5 lb/100 sq. ft.

- 5 lb. **ALF5** $8.39/bag. (SW 8#)
- 25 lb **ALF25** $22.49/bag. (SW 28#)

**BAT GUANO** *(9-3-1)* High nitrogen, fast-acting, gone in 2 months. Soil applied, use 4 lb./100 sq. ft. Foliar tea, use 1/8 cup guano/gal. water.

- 2.75 lb **BAT2N** $10.69/bag (SW 5#)
- 25 lb **BAT25N** $68.99/bag (SW 30#)

**BLOODMEAL** *(12-0-0)* Readily available nitrogen.

- 5 lb. **BLOOD5** $16.69/box (SW 8#)
- 20 lb **BLOOD20** $57.49/bag (SW 25#)
- 50 lb. **BLOOD50** $122.00/bag (SW 55#) (40 bags or more) $97.60/bag

**FEATHERMEAL** *(12-0-0)* Derived from feathermeal. Pelleted, Lasts about 6 months.

- Soil applied, 3-5 lb/100 sq ft; 300-500 lb/acre
- 50 lb. **1200** $42.49 (SW 55#) (40 bags or more) $33.99

**CHICKEN MANURE** *(3-2-1)* Fully composted. Great for preparing lawns, flower & vegetable gardens.

- (1 cu. ft. bag).
- 1 cu.ft. **EBCF** $3.99/bag (SW 50#) (105 bags or more) $3.19/bag

**COTTONSEED MEAL** *(6-2-1)* Slow release nitrogen, phosphorus and potassium, lasts 6 months to 1 year. Often used as vegetable fertilizer. Vegetarian source of nitrogen. Soil applied, 6 lb./100 sq. ft. or 500-800 lb./acre.

- 6 lb. **COTTON6** $11.69/box (SW 8#)
- 20 lb. **COTTON20** $31.49/bag (SW 25#)
- 50 lb. **COTTON50** $62.99/bag (SW 55#) (40 bags or more) $50.39/bag

**FISH MEAL** *(8-6-0)* Well-balanced fertilizer with lots of micronutrients.

- Slow release, 6-9 months. Soil applied, 5-8 lb./100 sq. ft.
- 6 lb. **FM5** $18.39/box (SW 8#)
- 50 lb. **FM50** $132.00/bag (SW 55#) (40 bags or more) $105.60/bag

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### PHOSPHORUS SOURCES

**BAT GUANO (0-7-0)**
Quickly available phosphorus. Soil applied use 4-6 lb./100 sq.ft. Foliar tea, use 1-2 tablespoons of guano/gal. water. Soil drench use 1-3 tablespoons/gal. water.
- 55 lb. BAT55 $48.49 (SW 63#)
- (39 bags or more) $38.79

**BIG BLOOM (0.01-0.3-0.7)**
Liquid phosphorus from earthworm castings and bat guano. Make your plants flower in a hurry! Use 2-4 tbsp./gal. water. Used by many growers to stimulate more flowers and fruits on tomatoes and peppers.
- 1 qt 8311 $17.19 (SW 5#)
- 1 gal 8312 $62.49 (SW 12#)
- 2.5 gal. 8325 $114.00 (SW 30#)

**BONEMEAL (NPK is listed below)**
Readily available phosphorus. Lasts about 2 months.
- Soil applied 4-6 lb/100 sf. or 300-500 lb/acre.
- 6 lb. BONE5 $11.49 (SW 8#)
- 25 lb. BONE25 $43.49 (SW 30#)
- 50 lb. BONE2140 $45.99 (SW 55#)
- (40 bags or more) $36.79/bag

**FISH BONE MEAL (3-16-0)**
Derived from fish bones. Readily available phosphorus. Lasts about 2 months.
- Soil applied, 4-6 lb./100 sq. ft. or 300-500 lb./acre.
- 6 lb. FBONE5 $9.49 (SW 8#)
- 25 lb. FBONE25 $33.49 (SW 28#)
- 50 lb. FBONE2140 $55.99 (SW 55#)
- (40 bags or more) $44.79/bag

**SOFT ROCK PHOSPHATE (0-3-0)**
20% Calcium.
Derived from rock phosphate. Slow release phosphorus and calcium. Fine powder. Lasts 4-5 years in the soil.
- Apply 6-12 lb./1000 sq.ft. or 250 lb./acre.
- 50 lb. SRP50 $27.49 (SW 50#)
- (40 bags or more) $21.99/bag

**SEABIRD GUANO (0-11-0)**
High phosphorus, quickly available. Soil applied, use 4-6 lb./100 sq. ft. or 2-3 lb./inch diameter of trunk. Foliar tea, use 2-4 tablespoons of guano/gal. water.
- 5 lb. BIRD5 $15.49 (SW 8#)
- 20 lb. BIRD20 $46.99 (SW 25#)
- 40 lb. BIRD40 $78.49 (SW 45#)

### POTASSIUM SOURCES

**SULPHATE OF POTASH (0-0-50)**
18% SO4; Quickly available source of potassium. Soluble grade, can be used foliar or through drip systems.
- 5 lb. SP5SF $15.49 (SW 8#)
- 50 lb. SP50SF $41.99 (SW 55#)
- (40 bags or more) $33.59/bag

**IMC SULPHATE OF POTASH MAGNESIA**
Also called K-Mag or Sul-Po-Mag, this is a naturally occurring source of potassium, sulfur and magnesium. Soil applied, use 5-10 lb./100 sq. ft. or 300-500 lb./acre.
- 5 lb. 1133347 $7.29 (SW 8#)
- 50 lb. KMAG $66.99 (SW 55#)
- (40 bags or more) $53.59/bag

### BLENDS: PELLETED & DRY

**CALIFORNIA ORGANICS PELLETED (8-5-1)**
Derived from meat and bone meal. Lasts about 2 months. Soil applied, use 3-5 lb./100 sq. ft. or 300-500 lb./acre.
- 5 lb. 8515 $4.59 (SW 8#)
- 10 lb. 85110 $7.79 (SW 12#)
- 50 lb. 851 $24.99 (SW 55#)
- (40 bags or more) $19.99/bag

**CALIFORNIA ORGANICS PELLETED (7-5-7)**
Derived from feather meal, sulphate of potash [mined] and bone meal. Lasts about 6 months. Pelleted, soil applied, use 3-5 lb./100 sq. ft. or 300-500 lb./acre.
- 5 lb. 7575 $6.69 (SW 8#)
- 10 lb. 75710 $11.39 (SW 12#)
- 50 lb. 757 $36.49 (SW 55#)
- (40 bags or more) $29.19/bag

**CITRUS & FRUIT TREE FERTILIZER (7-3-3)**
Ideal for citrus, avocado, apples, pears, peaches, plums, nectarines, all berries, grapes and kiwi. Derived from blood meal, feather meal, bone meal, dried chicken manure, bat guano, alfalfa meal, kelp meal, and potassium sulfate. Also contains 1.3% humic acids and 6 beneficial soil microbes including mycorrhizal fungi. Soil applied, use 2-4 cups per plant.
- 4 lb. 1133325 $7.09 (SW 7#)
- 15 lb. 1133343 $20.99 (SW 20#)
- 30 lb. 1133365 $38.99 (SW 33#)

**NATURE'S GREEN LAWN FOOD (10-1-4)**
Produce a thick green lawn the natural way with Nature's Green Lawn Food. This blend of organic ingredients is formulated for use on all types of green lawns.
- Contains 10% Nitrogen, 1% Available Phosphate with 4% Soluble Potash all derived from feather meal, blood meal, bone meal and sulfate of potash. Also contains 1.3% humic acids derived from Leonaridine.
- 5 lb. 11333291 $17.29 (SW 13#)
- 40 lb. 1133292 $58.49 (SW 45#)
- (50 bags of more) $46.79
ULTRA BLOOM (0-10-10) Formulated without nitrogen to aid in the development of flower and fruit buds. Although it may be used on all plants throughout the year, it is especially recommended for Azaleas, Camellias and Rhododendrons when flower buds begin to form in late summer, fall and winter.

4 lb.  1133329  $7.09   (SW 5#)
15 lb. 1133286  $20.99   (SW 18#)

VEGAN MIX (3-2-2) Blended fertilizer derived from soybean meal, alfalfa meal, rock phosphate, lang-benite, ground basalt and greensand. Slowly available. Soil applied, 5 lb./100 sq. ft.

6 lb.  VEGAN6  $9.89   (SW 9#)
25 lb. VEGAN25  $35.99   (SW 30#)
50 lb. VEGAN50  $62.49   (SW 55#)

TRACE ELEMENTS

AZOMITE ROCK DUST (fine & granular) Mostly aluminosilicate with trace elements. Used to increase flowering and fruit set, higher brix levels in fruits and vegetables and increased flavor. Use 1 tsp-1 tbsp/gal water (foliar); or 2 lb./100 sq. ft. or 200-500 lb/acre soil applied. 200 micron powder.

Fine (OMRI listed, Fine is recommended for adding to potting soils and for foliar use.)

44 lb. AZO44F  $24.49   (SW 50#)
(40 bags or more)  $19.59/bag

Granular
(Granular is recommended for adding to soil. It is pelleted for easier application.)

6 lb. AZO6  $8.99   (SW 9#)
50 lb. AZO50G  $44.99   (SW 55#)
(40 bags or more)  $35.99/bag

GLACIAL ROCK DUST A natural mineral produced by thousands of years of glacial action. A variety of rocks containing a spectrum of trace minerals are pulverized by the action of the glacier. From Canadian moraines. Replenishes key soil elements. Excellent source of readily available calcium, iron, magnesium and potassium, plus trace elements and micronutrients. Increases phosphorous availability and improves CEC. Apply 10-20 lbs per 1000 sq ft or 500-900 lbs per acre annually or as desired.

10 lb. GR8  $11.59   (SW 12#)
50 lb. GR50  $33.49   (SW 55#)
(40 bags or more)  $26.79/bag

KELP MEAL (1-0.1-2, 33% trace elements) Slow release potassium & trace minerals. Recommended for all crops and seedling starting mixes. Soil applied, 1 lb./100 sq. ft. or 500 lb./acre.

5 lb. KELP5  $18.99   (SW 7#)
20 lb. KELP20  $65.49   (SW 23#)
50 lb. KELP50  $87.99   (SW 60#)
(40 bags or more)  $70.39/bag

MAXICROP POWDER (0-0-17) Soluble trace element and natural growth hormones extracted from seaweed. Sulfate of Potash added. Used extensively for foliar applications on all crops. Commonly applied at 1 lb./acre in water to get good coverage or 1 tsp./gal.

10 lb. box MAXI10  $193.00   (SW 14#)
44 lb. MAXI44  $450.00   (SW 46#)
10.7 oz. jar 1969  $23.00   (SW 2#)
27 oz. jar 1965  $54.49   (SW 4#)

MAXICROP LIQUID (.1-0-1) Concentrated liquified seaweed. Most uses mix 1-2 capsfuls/gal.

Prohibited for organics due to inert ingredients

1 gal. 1980  $29.49   (SW 16#)
2.5 gal. 1981  $64.99   (SW 40#)

SUPPLIES & TOOLS

COMPOSTING

THE RODALE BOOK TO COMPOSTING Edited by G. Gershuny & D.L. Martin. Complete information on both home and large-scale composting. Contains information on various composting methods and utilizing composting equipment. 9781635651027 $16.95 (SW 2#)

SOIL SAVING COMPOST BIN This compost converter includes a locking self-watering lid, 100% recycled material, military grade rugged construction, 2 sliding doors, openings for aeration as well as a free composting guide. 15129 $114.00 (SW 20)

BIODYNAMIC COMPOST STARTER is a concentrated mixture of several cultivated strains of beneficial soil bacteria, enzymes and plant growth promoting factors; isolated from the most fertile humus soils. Recommended by the Lubbtkes as the closest commercial product to theirs. 1 ton unit. BD $16.89 (SW 1#)

RINGER COMPOST ACTIVATOR Contains a proprietary blend of microorganisms which break down yard waste as well as a nutrient energy source for a fast start. Specifically formulated to speed up the natural decomposition process for fast, complete composting. Excellent for use with lawn clippings, brown leaves, wood chips, pine needles, twigs, etc. Two pound box converts 500-750 lbs. of yard waste into mulch. Recharges cool piles, too! 2 lb. 3050 $6.29 (SW 3#)
**COMPOST DIAL THERMOMETER**
All-metal probe with oval dial reads temperatures from 0 to 220 °F.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Price</th>
<th>SW Code</th>
</tr>
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<tbody>
<tr>
<td>20&quot;</td>
<td>8306</td>
<td>$22.49</td>
<td>2#</td>
</tr>
<tr>
<td>36&quot;</td>
<td>82200</td>
<td>$78.49</td>
<td>3#</td>
</tr>
</tbody>
</table>

**COMPOST AERATOR TOOL**
Compost-generating microbes need air. So if your heap is too wet or too dry, or if you've used only grass clippings or leaves, get it cooking with the compost aeration tool. Simply thrust the pointed end into the heap and pull it up so the paddles open out, introducing more air, and the fermentation process will begin again. Plated tubular steel handle & plated steel paddles. 30" long.

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<thead>
<tr>
<th>CT</th>
<th>Price</th>
<th>SW Code</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>$21.49</td>
<td>4#</td>
</tr>
</tbody>
</table>

**WORM FACTORY**
- Made with post-consumer recycled plastic
- Dimensions: 16-inch x 16-inch x 13-inch
- Built in “worm tea” collector tray and spigot for easy draining
- Year Round Production
- Odor Free Operation
- Expandable up to 7 trays

<table>
<thead>
<tr>
<th>WF</th>
<th>Price</th>
<th>SW Code</th>
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<tbody>
<tr>
<td></td>
<td>$89.95</td>
<td>12#</td>
</tr>
<tr>
<td>extra trays WFT</td>
<td>$9.95</td>
<td>4#</td>
</tr>
</tbody>
</table>

**CROP PROTECTION**

**HARVEST GUARD** Lightweight frost protection, provides up to 4° F, transmits 85% light, air and water-porous, 0.5 oz. per sq. yd. spunbound polyester. well suited for windbreak or insect barrier.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Price</th>
<th>SW Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>5’ x 25’</td>
<td>16032</td>
<td>$13.99</td>
<td>3#</td>
</tr>
<tr>
<td>5’ x 50’</td>
<td>16033</td>
<td>$24.99</td>
<td>5#</td>
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</table>

**FROST BLANKET** 2.0 oz./sq. yd. Up to 8° F. frost protection. For those really cold nights.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Price</th>
<th>SW Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>5’ x 20’</td>
<td>143520</td>
<td>$11.59</td>
<td>3#</td>
</tr>
<tr>
<td>5’ x 40’</td>
<td>143540</td>
<td>$21.49</td>
<td>6#</td>
</tr>
<tr>
<td>10’ x 50’</td>
<td>10502</td>
<td>$64.40</td>
<td>Call for shipping</td>
</tr>
<tr>
<td>10’ x 300’</td>
<td>10300</td>
<td>$330.00</td>
<td>shipping</td>
</tr>
</tbody>
</table>

**DELUXE ROW COVER 0.5 OZ./SQ. YD.** Provides up to 4° frost protection. Provides 90-95% average seed germination compared to 60-65% with straw or hay.

<table>
<thead>
<tr>
<th>Size</th>
<th>Price</th>
<th>SW Code</th>
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</thead>
<tbody>
<tr>
<td>6’ x 250’</td>
<td>DELUXE6</td>
<td>$39.49</td>
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</table>

**HARDWARE**

**GARDENSTARTER COLD FRAME**
Provides excellent weather protection for all your plants. Long lasting maintenance free aluminum frame. Side panels slope from 16” to 12”.

<table>
<thead>
<tr>
<th></th>
<th>Price</th>
<th>SW Code</th>
</tr>
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<tbody>
<tr>
<td>GSK</td>
<td>$75.99</td>
<td>36#</td>
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</table>

**AUTOMATIC VENT OPENER** responds to inside temperatures within the coldframe or greenhouse. Adjustable to begin opening anywhere from 60 to 85° F. Raises up to 12 lbs. Full opening is 17 inches.

<table>
<thead>
<tr>
<th></th>
<th>Price</th>
<th>SW Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>GKVENT</td>
<td>$51.49</td>
<td>2#</td>
</tr>
<tr>
<td>Replacement cylinder</td>
<td>$25.99</td>
<td>1#</td>
</tr>
</tbody>
</table>

**GREENHOUSE 4 YEAR POLY** Not to be confused with cheap construction grade plastic, this 6 mil, UV & discoloration resistant poly is designed for 4 year use as a greenhouse covering. 91.8% light transmiision. 20’ wide. **Warning: use batten tape to protect plastic from chemical degradation if using PVC pipe as frame.**

<table>
<thead>
<tr>
<th></th>
<th>Price</th>
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<tbody>
<tr>
<td>6MIL20FT</td>
<td>$3.59/linear ft.</td>
</tr>
<tr>
<td>100’ roll</td>
<td>$251.30</td>
</tr>
</tbody>
</table>

**We also carry 24’, 32’, 40’, 48’ greenhouse plastic. Call for availability (full rolls only).**

**BATTEN TAPE** 3/4” wide x 1/32” thick. Recommended to use in securing joints with a staple gun & keeping plastic from touching PVC pipe frames.

<table>
<thead>
<tr>
<th></th>
<th>Price</th>
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<tbody>
<tr>
<td>BATTENFT</td>
<td>$0.25/linear ft.</td>
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</tbody>
</table>

**GREENHOUSE POLY-PATCH** Got a rip or tear? Mend it with this clear UV stabilized 6 mil polyethylene film with UV-stabilized adhesive. Should last as long as covering when applied properly to clean, dry surface. 4” wide x 48’ roll.

<table>
<thead>
<tr>
<th></th>
<th>Price</th>
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<tbody>
<tr>
<td>48060</td>
<td>$30.99</td>
</tr>
</tbody>
</table>

**HAND TOOLS**

**HORI HORI WEEDER-ROOT CUTTER** Several tools in one, heavy enough to cut through the toughest soil to remove weeds and roots. Comes with a leather-like sheath for your belt. Blade is 6.5” long. Overall length is 11.75”.

<table>
<thead>
<tr>
<th></th>
<th>Price</th>
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<tbody>
<tr>
<td>1515</td>
<td>$29.99</td>
</tr>
</tbody>
</table>

**HICKOK LOPPING SHEARS** are engineered with high quality alloy tool steel, aluminum handles, and special adjusting nut for free cutting action. Special spring and plunger shock absorber makes them easy to use all day. All parts are replaceable & we
stock them.

**Migit Shears (Vine)**

8"  1914  $57.49  (SW 5#)

**HICKOK Vine Shears**

20"  5817  $59.49  (SW 6#)
24"  5821  $66.49  (SW 7#)
26"  5826  $77.99  (SW 8#)
30"  5830  $84.99  (SW 9#)

**FANNO NO. 0**: Designed for the orchardist preferring a folding saw with a long 14" cutting edge. 6 points per inch lance teeth. 15" hardwood handle. 19 gauge saw steel.

0F  $28.49  (SW 3#)

**FANNO NO. 1**: Designed for the commercial pruner. Saw can be folded and carried conveniently in pocket. 10.5" cutting edge. 6 points per inch. 11.25" hardwood handle.

1F  $25.49  (SW 3#)

**FANNO NO. 2**: Designed for use by the vineyardist & orchardist. 8.5" cutting edge. 7 points per inch. 9.5" hardwood handle.

2F  $22.99  (SW 2#)

**FELCO**

These Swiss-made hand pruners have been the standard of the industry for over 30 years. All models feature (unless noted otherwise) forged, light metal handles with red plastic covering; tempered bolt and bush to prevent blade spread; and adjustable blade. **All parts are replaceable.**

We carry a complete line of Felco products and replacement parts.

Felco 2, 5, 6, 7, 8, 9, 10, 12, 13, 20, 21

From $28.99 up.

**ALUMINUM ORCHARD LADDER** Heavy-duty aluminum tripod orchard ladders feature full 3" steps with non-skid design, extra strong extruded side rail, solid aircraft rivets throughout, anodized shoulder pad at balance point and sturdy 3rd leg unit which pivots on steel bushing. Replacement parts available. The most popular sizes are 8’ & 10’.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>6 ft.</td>
<td>1106</td>
<td>$162.00 (SW 15#)</td>
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<tr>
<td>8 ft.</td>
<td>1108</td>
<td>$200.00 (SW 20#)</td>
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<td>10 ft.</td>
<td>1110</td>
<td>$232.00 (SW 25#)</td>
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<tr>
<td>12 ft.</td>
<td>1112</td>
<td>$286.00 (SW 32#)</td>
</tr>
<tr>
<td>14 ft.</td>
<td>1114</td>
<td>$315.00 (SW 36#)</td>
</tr>
<tr>
<td>16 ft.</td>
<td>1116</td>
<td>$388.00 (SW 42#)</td>
</tr>
</tbody>
</table>

Call for a freight quote.
16 ft available by Special Order Only

**LETTUCE HARVEST KNIFE** Has 5.5” cutting edge on 7” blade.

0412  $5.89  (SW 2#)

**GRAPE HARVESTING KNIFE** Kuhn stainless steel serrated edge 2 1/4” long cutting blade, orange plastic handle. Our most popular knife!

4040013  $3.09  (SW 2#)

**APPLE/PEAR PICKING BAGS** Heavy duty 7 1/2 oz. nylon fabric resists abrasion and cushions fruit. Wide, well-padded adjustable shoulder strap is designed to be worn across chest. Spring-loaded, quick release trigger clips for easy dumping when full.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4 Bushel</td>
<td>60926</td>
<td>$44.99 (SW 5#)</td>
</tr>
<tr>
<td>1 Bushel</td>
<td>60927</td>
<td>$47.99 (SW 7#)</td>
</tr>
</tbody>
</table>

**POLE FRUIT HARVESTER**

Has 2 piece 8 ft. pole with a basket at top for harvesting hard-to-reach and fragile fruit.

7000  $19.89  (SW 10#)

**HAND REFRACTOMETER**

reads from 0 to 32° Brix and is useful to determine harvest time for fruits and measure sugar concentration during the growing season. Automatically compensates for temperature. Comes with carrying case.

43002  $129.00  (SW 2#)
**EROSION CONTROL MATERIALS**

**WADDLES** (Call for pricing)

**STRAW BALES** (Call for pricing)

**Organic Wheat Straw**  
**Conventional Rice Straw**

**JUTE EROSION CONTROL NETTING:** Burlap netting is used to cover cuts and steep slopes to prevent erosion. Roll is 4’ wide by 225’ long, covers approximately 900 sq. ft. Use a min. of 200 stakes per roll to anchor jute.

- By the linear foot:  
  JUTEFT  
  $0.60/ft.

- By the roll (225):  
  JUTERL  
  $75.99/roll  
  1-5 rolls  
  $68.39/roll  
  5-14 rolls  
  $64.59/roll  
  15 or more rolls

**6” JUTE STAKES** JS6  
Box of 1000  
$0.12 each  
(SW 40#)

**9” JUTE STAKES** JS9  
Box of 500  
$0.27 each  
(SW 38#)

**RAINGEAR**

**RAIN GAUGE** will measure up to 5 inches of rain before needing to be dumped and recorded.  
60174  
$5.19  
(SW 1#)

**EZ-READ JUMBO RAIN GAUGE** Two foot long tube with red disc can be read a long way away. Measures up to 5” of top.  
10525  
$15.89  
(SW 2#)

**RAINBOOTS** PVC boot with bar cleat sole and removable insole.

**MUCK CHORE BOOTS**: Made with a durable, lightweight rubber outsole. Provides excellent comfort and shock absorption on hard surfaces like asphalt, concrete and rocky terrain. Fully reinforced and equipped with a steel shank. Tackle the really dirty work with the Chore Boot.

<table>
<thead>
<tr>
<th>Size</th>
<th>MUCKBOOT</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>5M OR 6W</td>
<td>MUCKBOOT5</td>
<td>$104.95</td>
</tr>
<tr>
<td>6M OR 7W</td>
<td>MUCKBOOT6</td>
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<td>7M OR 8W</td>
<td>MUCKBOOT7</td>
<td>$104.95</td>
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<tr>
<td>8M OR 9W</td>
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<tr>
<td>9M OR 10W</td>
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</tr>
<tr>
<td>14M</td>
<td>MUCKBOOT14</td>
<td>$104.95</td>
</tr>
</tbody>
</table>

**RAINSUIT** For rain this PVC rainsuit is tough and durable to handle demanding work conditions with separate jacket and pants. Jacket has armpit grommets for ventilation, coat pockets on the inside and an inside bib pocket as well as attached hood with a fold out bill. The pants have an adjustable waist and elastic suspenders with a hook and loop adjustable at the ankles.

**High visibility safety yellow. Men’s sizes.**

<table>
<thead>
<tr>
<th>Size</th>
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<th>Price</th>
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<tr>
<td>Medium</td>
<td>11337</td>
<td>$32.99</td>
</tr>
<tr>
<td>Large</td>
<td>11338</td>
<td>$32.99</td>
</tr>
<tr>
<td>X Large</td>
<td>11339</td>
<td>$32.99</td>
</tr>
<tr>
<td>XX Large</td>
<td>11336</td>
<td>$32.99</td>
</tr>
</tbody>
</table>

**WATER TANKS**

Our heavier-wall polyethylene water tanks are Premium Grade HDLPE.  
**Tank adapter included:**  
2” at bottom, 1 1/2” at top.

<table>
<thead>
<tr>
<th>Green color tanks (stocked)</th>
<th>Opening</th>
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<tbody>
<tr>
<td>gallons</td>
<td>dimensions</td>
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<tr>
<td>205</td>
<td>42” x 43”H</td>
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<tr>
<td>330</td>
<td>47” x 58.25”H</td>
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<tr>
<td>550</td>
<td>67” x 42”H</td>
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<tr>
<td>550</td>
<td>48” x 74”H</td>
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<td>1000</td>
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<td>86” x 53”H</td>
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<td>1500</td>
<td>86” x 70”H</td>
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<tr>
<td>2600</td>
<td>96” x 89”H</td>
</tr>
<tr>
<td>3000</td>
<td>96” x 109”H</td>
</tr>
</tbody>
</table>
DRAINAGE

Still wondering how to solve your drainage problems? Let us help you design a system utilizing flexible drainage pipe to take your excess water away. All pipe available in either perforated, solid or Drainguard. Drainguard is a protective wrap around the pipe which prevents sediment from entering the perforated pipe.

We stock 3” - 24” perforated and solid drainage pipe and fittings made by ADS.

TRIPLE WALL DRAINAGE PIPE
ADS 3000 Triple Wall HDPE pipe is triple bonded polyethylene for exceptional pipe stiffness. With smooth inner and outer walls and a corrugated structural core, ADS 3000 Triple wall HDPE pipe is designed to have superior pipe stiffness to that of PVC sewer and drain pipe.

Sold in 10 foot lengths
3” ADSPTW3 $8.90 Perforated
4” ADSPTW4 $11.90 Perforated
3” ADSSTW3 $8.90 Solid
4” ADSSTW4 $11.90 Solid
We also stock SDR35 4” and 6” pipe solid, and SDR35 4” perforated

SOLVENT WELD FITTINGS
Solvent Weld Fittings include tees, elbows, adapters, couplings manufactured from durable Sewer and Drain PVC. Securely connects sewer and drain pipes.

3” Triple wall tee
SDRT3 $8.69
4” Triple wall tee
SDRT4 $8.89
3” Triple wall 90 degree elbow
SDR903 $3.69
4” Triple wall 90 degree elbow
SDR904 $5.89
3” Triple wall coupling
SDRCO3 $2.09
4” Triple wall coupling
SDRCO4 $2.79
3” Triple wall cap
SDRCA3 $2.20
4” Triple wall cap
SDRCA4 $2.49

We stock a full line of fittings

PLEASE NOTE: ALL DRAIN PIPE MUST BE SHIPPED VIA DELIVERY TRUCK OR COMMON CARRIER, PLEASE CALL FOR A FREIGHT QUOTE

FALL & WINTER CLASSES

We offer lots of classes throughout the year which are usually held on Saturdays and most of them are free. Please call or visit harmonyfarm.com for a list of classes.
Leading “watchdog” organizations around the world have reported major concerns regarding the present and future availability of surface and ground water supplies. U.S. federal planners have recently determined that the United States will not be able to meet future water demands unless conservation alternatives are implemented. Rainwater Harvesting or Rain Catchment is one alternative\(^1\) that has been growing in popularity. Even the National Oceanographic and Atmospheric Administration has undertaken a program to fund rainwater harvesting projects around the country as a means to store water at the individual property owner level.

Collecting rainwater offers many advantages in addition to water conservation. Some of these are energy conservation, minimized run-off to help prevent flooding and erosion, decreased water contamination due to leaching, and of course decreased water bills.

In general, average rainfall provides an adequate supply of water but storage space is the limiting factor. For example, Sonoma County receives about 30 inches of rainfall per year. This equates to approximately 18,700 gallons of water for a 1,000 square foot roof area. Most Northern California coastal areas receive a maximum of 1.5 inches of rainfall in a 60-minute duration\(^2\). At this rate, a 1,000 square foot area will generate 935 gallons per hour of water (or 15.4 gpm). This number is used as a baseline for sizing the drainage lines in to and out of the rainwater storage tanks.

Rainwater harvesting systems are generally split into 2 basic types of conveyance systems: dry conveyance, and wet conveyance.

In a dry conveyance system, the pipe(s) that convey water to the storage tank(s) are normally empty except during periods of rain. These systems are the easiest to install and usually have the storage tank(s) in very close proximity to the building/roofline from which rainwater is being harvested. (See Diagram 1)

In a wet conveyance system, the pipe(s) that convey water to the storage tank(s) are continuously flooded or partially filled with water. This design would be employed where the water storage tank(s) are located at a distance from the building/roofline. A trench or subterranean piping is necessary to convey the rainwater to the storage tank(s). To avoid leaks and withstand burying, the pipes for a wet system are of higher quality material. (See Diagram 2)

The key to either system is the collection of “clean” rainwater. During a rainfall period, debris from the collection surface (e.g., a roof) can be washed into the gutter or collection device and, if not filtered out, will make its way into the storage tank. Several methodologies have been developed to remove this debris from the rainwater. Most commonly used is a debris separator that is placed on the gutter or just below the downspout (see Diagram 3). The debris separator is a “course” screen that will restrict the largest items (like sticks and leaves) from entering the system. One disadvantage of a debris separator is that it is often located at the roof level, and can require a ladder to perform periodic maintenance.

The initial runoff from a roof is the most contaminated. A “first flush” diverter mechanism should be installed to divert the dirtiest first gallons of water into a reservoir and avoid conveyance into your rainwater storage tank. First flush diverting mechanisms come in many shapes and sizes. A section of 4” diameter PVC pipe is recommended as a diversion reservoir with a “tee” at the top through which the cleaner water will flow. A filter and an irrigation drip emitter will be attached to the bottom of the 4” pipe from which the reservoir will slowly drain. This will ready the first flush device for the next rain. (See Diagram 3)

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1 Rainwater Harvesting, Agrilife Extension, Texas A&M Extension. 2010
In addition to insuring clean water arrives to the storage tank, prevention of other contaminants is also important: eg. bugs and other critters. Inlets, overflows, and vents on the storage tank(s) should be protected with a 16-mesh (or better) screen. The 16-mesh (or 1/16-inch holes) keeps mosquitoes and other undesirables out of the stored water. Some tanks, like the Bushman line of rainwater harvesting tanks, come equipped with a 16” diameter 16-mesh stainless steel basket screen at the inlet and a 3” 16-mesh stainless steel screen on the overflow. These screens will require periodic maintenance.

Once the above considerations are taken into account, a water “budget” should be developed to determine an appropriate tank size and configuration for your property.

Diagram 1

**TYPICAL DRY CONVEYANCE SYSTEM**

Diagram 2

**TYPICAL WET CONVEYANCE SYSTEM**

Diagram 3

**TYPICAL FIRST FLUSH ASSEMBLY**
According to federal water planners, the surface and ground water supplies now in the United States will not meet the water demands in the future. To meet the growing demand for fresh water, we need to conserve water and develop alternative water supplies. One solution is rainwater harvesting, which captures, diverts, and stores rainwater for later use. [1]

Advantages of collecting rainwater:
- conserves water,
- conserves energy,
- helps prevent flooding and erosion,
- decreases water contamination and can help reduce personal water bills.

As of 2012, Harmony Farm Supply has trained several of its employees in proper rainwater harvesting techniques, (trained by the American Rainwater Catchment Systems Association) and expanded our irrigation, drainage, and pumping departments to include rainwater supplies and design services.

We now have storage tanks designed specifically for rainwater catchment. We offer Bushman Tanks that have a 16” filter basket stainless steel screen entry on top and a 3” SDR35 stainless steel screened overflow. The screens prevent mosquitoes and other critters from entering the tank.

**BUSHMAN ROUND TANKS** Conventional Cylindrical Shape. All available in mocha or green

<table>
<thead>
<tr>
<th>Code</th>
<th>Capacity</th>
<th>Dimensions</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLPT1110G</td>
<td>1110 Gal.</td>
<td>84”D X 56”H</td>
<td>$795.65</td>
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<tr>
<td>BLPT660G</td>
<td>660 Gal.</td>
<td>71”D X 48”H</td>
<td>$592.45</td>
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<tr>
<td>BRTT205G</td>
<td>205 Gal.</td>
<td>35”D X 60”H</td>
<td>$282.00</td>
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</table>

**BUSHMAN SLIMLINE TANKS** New Rectangular Shape For A Better Fit In The Landscape.

<table>
<thead>
<tr>
<th>Code</th>
<th>Capacity</th>
<th>Dimensions</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSLT265G</td>
<td>265 Gal.</td>
<td>59” X 64” X 25”</td>
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<td>BSLT530G</td>
<td>530 Gal.</td>
<td>86” X 78” X 25”</td>
<td>$699.95</td>
</tr>
</tbody>
</table>

**BUSHMAN FIRST FLUSH KIT** First flush kits

-BCK0003 First Flush Kit $139.00

**DIVERTER DEBRIS SEPARATOR ONLY** If you do not want the entire first flush kit, you can purchase just the debris separator/leaf catcher. Place it directly under the gutter entrance to the downspout and connect a piece of 3” SDR35 or ADS Triple Wall Pipe.

-BCK12003 Debris Separator $28.99

265 Gallon Slimline Tank Installed at Harmony Farm Supply

In coordination with Daily Acts (dailyacts.org), Harmony Farm Supply & Nursery has held classes and started carrying the necessary equipment to install greywater systems.

Greywater (or Graywater) is wastewater generated from sinks, showers, tubs, and washing machines. In California, as of 2009, greywater use in the landscape from water generated from a washing machine no longer requires a building permit as long as you follow these 12 basic rules:

1) The system directs greywater to an appropriately landscaped area.
2) No root vegetables or edible food parts come in direct contact with greywater.
3) No overhead/spray irrigation is connected to the greywater system.
4) There is at least two inches of mulch, rock, or soil, or appropriate permeable cover where greywater is released. This prevents humans and pets from coming into contact with the water.
5) Greywater will be contained on the site where it is generated. Pooling or runoff is prohibited.
6) Wastewater derived from activities such as cleaning car parts, washing dirty diapers, washing greasy or oily rags, disposal of waste solutions from home photo labs or other activities that contain hazardous chemicals shall not enter the greywater system.
7) The system must provide a way to divert water back into the main sewer system. The direction of flow of sewer and greywater is to be clearly labeled. (This is done with a 3-way valve.)
8) The system has been designed and installed to prevent contact with humans and pets.
9) No storage is permitted. For storage tank to be permitted, filtration and permit are required.
10) Water used to wash diapers or similarly soiled garments will not be used for irrigation; it will be diverted to the sanitary sewer or septic system.
11) The system does not include a potable water connection or a pump.
12) The system does not affect other parts of the building, such as electrical or structural requirements.

Special thanks and Image provided by Daily Acts at dailyacts.org.
ORDERING INSTRUCTIONS

ORDERING INFORMATION
All items listed in this catalog are available for order via fax or phone. We normally ship via UPS ground for weights under 150 lbs. For orders over 150 lbs. we will either ship using our own trucks or using a Common Carrier. Some items can only be shipped via common carrier (freight truck) due to weight, size or hazard restrictions and these items say common carrier following their price. All payments must be in U.S. dollars from a U.S. bank.

We are open every day (except major holidays), 9 A.M. to 5 P.M. to take phone orders charged to your MasterCard, Visa, Discover, or Amex. You can also email us an order at weborders@harmonyfarm.com.

PRICE INCREASES
All prices in this catalog were as accurate as we could make them as of 8/03/19. The prices of all items for sale in this catalog are subject to change without notice, although we do our best to hold prices. We will inform you before shipping if an item has risen substantially in price. For up-to-date prices, please phone, fax or email your order.

WHEN YOU RECEIVE YOUR ORDER
When your order arrives, please check it against the packing slip. Notify us immediately of any shortages or damage. On truck orders, note any damage on the bill of lading and sign only for the number of boxes you receive.

BACK ORDERS
Items temporarily out of stock will be back ordered and shipped when available. Please let us know immediately if you prefer not to wait.

PHONE ORDERS: (707) 823-9125
FAX ORDERS: 24 hr./day (707) 823-1734
EMAIL: sales@harmonyfarm.com

DETERMINING SHIPPING & HANDLING CHARGES

1) DETERMINE THE WEIGHT OF YOUR ORDER. Every item in the catalog has a shipping weight in parentheses behind the price. Use the shipping weights given in parentheses with the # symbol, for example (SW 3#) means 3 lb. freight. Where there are no # symbols, use the weight of the bag or number of pounds of seed ordered to determine weight. Add all products to get total weight. Any individual item weighing 40 lbs. or more must be shipped by itself to prevent damage to other items.

2.) IF THE ORDER IS TO BE SHIPPED UPS, AN ESTIMATE CAN BE CALCULATED AT www.ups.com and click on the “ESTIMATED TIME AND COST LINK”. Our zipcode is 95472

3.) There are very few instances where an item has an additional handling charge (labeled AH) assessed by the freight carrier. UPS AH fee is $8.50 per package.

4.) Items that have AH next to price, add $8.50 UPS fee.

5.) Call, fax or email for a delivery quote for truck, parcel post, air delivery or other options.
<table>
<thead>
<tr>
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<th>QUANTITY</th>
<th>NAME OF ITEM AND SIZE</th>
<th>WEIGHT/ITEM (SW #)</th>
<th>TOTAL WEIGHT</th>
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**INDIVIDUAL ITEMS WEIGHING MORE THAN 40 LB. MUST BE SENT IN SEPARATE PACKAGES TO PREVENT DAMAGE TO OTHER ITEMS!**

Every item in the catalog has a shipping weight in parentheses behind the price or in the same block. Use the shipping weights given in parentheses with the # symbol, for example (SW 3#) means 3 lb. freight. Look at the shipping chart on page 65 to determine your zone and appropriate shipping charge for UPS Ground Service to add under Shipping Charges. If you want faster shipping, or are in AK, HI, PR or VI, please call, fax or email for a freight quote.

**PAYMENT METHOD:**

- Check or Money Order #_______________ Please do not send cash or stamps.
- MasterCard  VISA  Discover  American Express

Card #_________________________ Expiration Date ____________

Name On Card ______________________________________________

Card Holder Signature ________________________________________

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<th>SUBTOTAL</th>
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<td>Shipping Charges from chart on page 122</td>
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<tr>
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<td>TOTAL IN U.S. FUNDS</td>
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</table>
Would you like to STOP receiving our catalog? Please send us your mailing label with your request and you will be removed from the mailing list. Thank you!

TIME VALUE - PLEASE DO NOT DELAY