

*Man - despite his artistic pretensions, his sophistication,  
and his many accomplishments - owes his existence to  
a six inch layer of topsoil and the fact that it rains.*

*-- Author Unknown*



**Catalog 2012-2013**



- Native Grass Seed
- Native Seed Mixes
- Wildflower Seed
- Erosion Control Seed Mixes
- Wildflower Seed Mixes
- Woody Plants & Tree Seed
- Woody Plants & Tree Seed Mixes
- Forage Seed
- Forage Seed Mixes
- Cover Crop Seed
- Legume Seed

- Permamatrix® Biotic Soil Amendment
- Envirolok Vegetated Slope Protection
- Biochar
- EcoLive™ and EcoBiotics™
- FishWay Rx™
- EarthLite™ EcoRoof Media
- EarthLite™ Stormwater Filtration Media
- RainClear™

- Players Choice™ Field Products and Soil Solutions
- Professional Grade Infield Soil Mixes
- Professional Grade Packing Clay
- Tools and Accessories
- Water Management Solutions
- Water Movement Solutions

## SUNMARK COMPANIES

### Products we offer:

- Native, Turf, Erosion Control Seeds and Custom Seed Mixes
- Permamatrix Biotic Soil Amendment
- Envirolok™ Vegetated Slope Protection Systems
- Players Choice™ Soil Amendments
- Players Choice™ Engineered Soils and Clay Based Soil Blends
- Custom Soil Blends
- EcoLive™ and EcoBiotics™ Organic Amendments
- EarthLite™ EcoRoof Soil Media
- EarthLite™ Stormwater Filtration Media
- Ecology Embankment Material
- Sand Bags, Rock Bags, Soil Bags

### Services we offer:

- Seed Consultation
- Mixture Formulation
- Engineered Plans and Permit Facilitation
- Erosion Control
- Environmental Consulting and Resource Management Services
- Streambank Restoration
- Restoration Design, Installation, and Management
- Sports Field Soil Testing
- Athletic Field Design Consulting
- Sand Bagging
- Custom Bagging Operations

Sunmark is in business to provide products and ideas to protect, enhance and create native plant communities providing biodiversity that adds value to our natural areas, while enhancing and protecting the environment in which we live. We also are committed to creating safe playable parks and sports fields which enhance our relationship with each other and the environment around us.

### We guarantee the following:

**EXCEPTIONAL SERVICE:** We don't simply take your order. As specialists in the Seed and Soils industry, we offer the expertise and knowledge that it takes to choose the best possible products or services for your project.

**SUPPORT:** Our mission is to arm you with the appropriate knowledge and then provide you with the best possible products at an affordable price. And, with helpful tips, an on-line resource manual, newsletter, and online ordering, our catalog and web site are your 24-hour resource.

**VALUE:** With bulk facilities and warehouses located across the Northwest, it is our goal to offer some of the out-of-hand freight costs back to our customers. Simply put, we want our products and services to be affordable.

**PERFORMANCE:** We hold our products to the highest standards and your satisfaction is our ultimate goal. If a product does not live up to your standards, plain and simple, we want to know about it, so we can work with you to resolve any issues.

# It All Starts with a Seed!



New

Sunmark Seeds is proud to introduce two new lines of seed mixes. Our new Salt Tolerant line of seed mixes is specifically formulated to perform well in high salt areas. Look for the "Salt Tolerant" for these new additions!



We also have developed an extensive line of Wildlife forage mixes. With the addition of the Sucra Sweet line of High Sugar Grasses these mixes will enhance all forage areas for wildlife. Look for the "Wildlife Seed Mix" for these new additions!

New



For more information visit our website:  
[www.sunmarkseeds.com](http://www.sunmarkseeds.com)

Sunmark Seeds Mixes are formulated based on seeds per square foot. These mixes have been appropriated to give a true balanced mixture, or to emphasize a species that would be found prevalent on a particular site. Sunmark Seeds Mixes have been carefully formulated to fit specific adaptations for several regions, moisture requirements, and soil types and elevations zones.

Sunmark Seeds section begins on page 14



BEFORE

We have the answer! Introducing PermaMatrix® biotic soil amendment (BSA). A hydraulically applied BSA containing biochar, PermaMatrix is changing the way we look at soil restoration, renewal and reclamation. PermaMatrix is turning nutrient deficient bare dirt into productive soil faster and at a lower cost than topsoil and compost ever has or will.

It's Cheaper Than Dirt!



1 YEAR GROWTH



# Cheaper Than Dirt!

As a Contractor how do you increase revenue, reduce cost, and mitigate risk on your construction site?

As an Agricultural Professional how do you reduce cost, increase yield, manage sustainability, and promote green awareness?

As a Regulator or Design Professional how do you increase performance, reduce cost, and mitigate risk on your reclamation and restoration projects.

As a Reseller how do you increase your bottom line, find new revenue opportunities, and expand your client base?



A hydraulically applied **BIOTIC SOIL AMENDMENT**  
Patent Pending

More info go to:  
[www.permamatrix.com](http://www.permamatrix.com)  
Made in the USA with recycled materials



AFTER

Sunmark Environmental section begins on page 78



### What is Biochar:

Biochar is pyrolyzed biomass, or biomass that has been burned in the absence of oxygen. This process creates a highly porous structure that provides the optimum host for soil microbes. Biochar also holds 50% of the biomass's carbon and when applied to soil, sequesters that carbon for centuries, reducing the overall amount of atmospheric CO<sub>2</sub> by removing it from the active cycle. Biochar also enhances plant growth which absorbs more CO<sub>2</sub> from the atmosphere. Overall, these benefits make the biochar process carbon negative.

### How does it work:

Biochar stimulates the activity of a variety of agriculturally important soil microorganisms, and can greatly affect the microbiological properties of soils. The pores in biochar provide a suitable habitat for many microorganisms by protecting them from predation and drying while providing many of their diverse carbon (C), energy and mineral nutrient needs. Since soil organisms provide a myriad of ecosystem services, adding biochar to soil may affect soil ecology and is critical for assuring that soil quality and the integrity of the soil rhizosphere are maintained.

### How it's used:

The natural process of biochar is found in soils around the world as a result of vegetation fires and historic soil management practices. Intensive study of biochar-rich dark earths in the Amazon (terra preta), has led to a wider appreciation of biochar's unique properties as a soil enhancer. Biochar also improves water quality and quantity by increasing soil retention of nutrients for plant and crop utilization. More nutrients stay in the soil instead of leaching into groundwater and causing pollution.

### Helps Farmers

Biochar has consistently shown an increase in yields for most agriculture crops and is a preferred amendment in organic farming. There is also evidence from thousands of years of traditional use of charcoal in soils. The most well-know example is the fertile Terra Preta soils in Brazil, but Japan also has a long tradition of using charcoal in soil, a tradition that is being revived and has been exported over the past 20 years to countries such as Costa Rica. The Brazilian and Japanese traditions together provide long-term evidence of positive biochar impact on soils.

# EnvirolokNW

The ecologically advanced Envirolok vegetated system provides permanent erosion control.

Using Envirolok™ to Establishing Sustainable Natural Eco-Systems

#### Where to Use Envirolok

- Streambank Restoration
- Shoreline Enhancement
- Bioswales
- Landfill Caps
- Road Slips
- Green Walls
- Culvert Protection
- FishWay Rx System
- CritterCross System
- Cultural Resource Protection
- Wind Erosion Sites
- Water Erosion Sites
- Bridge Embankments
- Piling Protection
- Foundation Protection
- Dykes and Levee Repair
- Eroded Slopes

Envirolok's patented system provides immediate stabilization, erosion control, and a permanent vegetated solution. Envirolok is adaptable to water or dry land sites.

Envirolok's encapsulated soil bags and spikes combined with the engineered strength of soil reinforcing materials supply the connection necessary for an ecological vegetated solution.



AFTER

For more information visit our website: [www.enviroloknw.com](http://www.enviroloknw.com)



# Athletic Field Solutions

# Baseball / Softball

“ I just wanted to write you and express my appreciation for your help on the Forest Grove project. Sunmark Sports really helped by not only flexing to our ever changing delivery dates but you also kept material on hand to ensure that delays were not caused on our behalf. The intricacies of this project were many and we appreciate the service you were able to provide.

Regarding the soil: Sunmark's DR Professional Grade 5.5 infield soil blend was very nice to work with and looks very nice on the field (the red is a great contrast to the dark green grass). Just so you know we had to do some grading of the baseball infield in the rain and it took most of the day before the soil got too wet to work. ”

Thanks again,  
Damon Richardson  
Field Tech Consultant  
Pacific Sports Turf

“ The Player's Choice Red Infield Conditioner is a great product. The improved water drainage by blending the Conditioner with our existing infield mix has allowed us to play more games considering our weather conditions in the Northwest. The field playability is enhanced with the addition of Player's Choice. ”

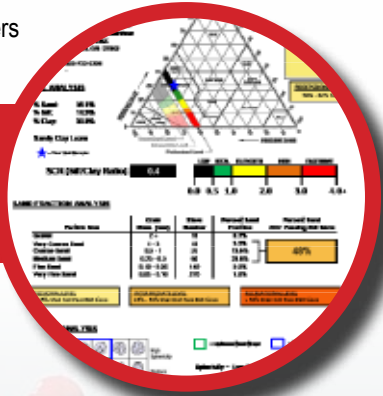
Thanks,  
John Bailie  
Redmond/Eastlake High School  
Athletic Complex Supervisor

## Field Products and Soil Solutions

Engineered soil solutions and professional grade mound/pitchers circle clay.

### NEW - Soil Analysis Service KNOW WHAT YOU HAVE!

(Sieve analysis to determine sand /silt /clay content of your field)



## Tools and Accessories

- Tamps
- Rakes
- Shovels
- Mat Drags
- Nail Drags
- Miscellaneous Tools



## Water Management Solutions

- Brawler Products



- Calcined Clay Conditioners
- Drying agents

## Water Movement Solutions

- Speciality Nozzles
- Hoses
- Hose Reels
- Cleaning Agents



“ Talk about a difference, in how our fields held up against the Oregon Spring downpours from one year top the next. We used Sunmark Sports to dial in our infield these past two seasons and it was the best thing our district did for our baseball program. Our fields held up better than any field around, period. When others were rained out we played. It was nice to not get backed up in our schedule as spring rainouts can do that to many teams here in Oregon. ”

John Cosby  
Head Baseball Coach Reynolds HS  
Troutdale, Oregon

“ Working with Sunmark Sports, and using Players Choice™ infield conditioner, was the best investment we made for our program and our kids. We were always on the field when other programs were inside in the gym, or on the parking lot. Beyond not postponing games due to rain and inclement weather, we found we were always able to get on the field for practice. ”

Mike Fitz  
David Douglas Baseball  
Portland, Oregon  
1982-2009

## HOW TO PURCHASE SEED

**Placing an order:** Place your order by telephone, fax, or through our website at [www.sunmarkseeds.com](http://www.sunmarkseeds.com). We accept checks, VISA, MasterCard, Discover and cash. Canadian accounts: remit in U.S. funds. International accounts: remit via wire transfer of U.S. Funds Irrevocable Letter of Credit, VISA, or MasterCard. Most orders are shipped within 48 hours of receipt of order.

**Shipping and Handling Policy:** All seed is shipped F.O.B. Portland, Oregon. Domestic shipment is by UPS, Federal Express, or truck for best delivery. International shipment is by Airborne, Federal Express, or United Parcel Service on LTL quantities; ocean-going vessel for full container quantities. On web orders freight is automatically included and shown on shipping list. We do not ship C.O.D.

**Claims:** Claims for damage, error, or shortage must be made in writing within seven days of product receipt.

**Pricing:** The prices in this catalog are for wholesale trade only. Prices are in U.S. dollars. **Prices may change without notice due to changing market conditions.** We reserve the right to prorate deliveries in case of shortage or to be released from delivery entirely in case of crop failure or other causes beyond our control.

**Bulk Seed Pricing:** Additional discounts are available for bulk quantity orders as follows:

Turf	2,000 pounds
Restoration & Erosion Control	2,000 pounds
Legumes	500 pounds
Wildflower	50 pounds
Natives	50 pounds

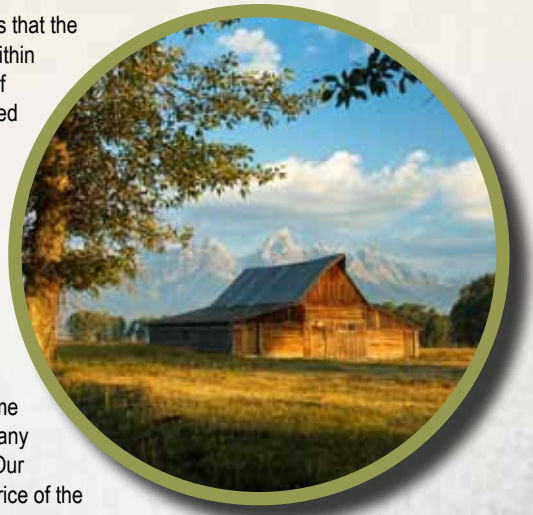
Call for special order quantities and custom seed mixing.

**Oregon: (503) 241-7333 Toll Free: 1-888-214-7333**

**Visit our website at: [www.sunmarkseeds.com](http://www.sunmarkseeds.com)**

**Warranty:**

Sunmark Seeds International, Inc. warrants that the seeds are as described on the container within recognized tolerances in the trade and is of high quality. The seeds have been described under State and Federal seed laws and have been tested by a registered seed laboratory. This is the sole warranty; we make none other, expressed or implied. We cannot guarantee establishment of plants due to various factors over which we have no control. No liability hereunder shall be asserted unless a buyer or user reports to Sunmark Seeds International, Inc. within a reasonable period of time (not to exceed 45 days of receipt of seed) any conditions that might lead to a complaint. Our liability is limited to the original purchase price of the seed only.



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## NATIVE SEED MIXES

NATIVE SEED MIXES

NATIVE SEED MIXES

Sunmark's Native Grass Mixes are formulated based on seeds per square foot. These mixes have been appropriated to give a true balanced mixture, or to emphasize a species that would be found prevalent on a particular site. Sunmark's Native Mixes have been carefully formulated to fit specific adaptations for several regions, moisture requirements, soil types, and elevation zones. These mixes are generally in stock and are ready for immediate shipment. Give us a call and our staff will help to identify where the specific mixture should be used. We can also help with a custom Native Mixture based on your species selection.





Mix Name	Mix Botanical Name	Common Name	Composition
 <b>\$29.95 per lb.</b> <b>Seed Rate</b> <b>1.5 lbs per 1000 sq ft.</b>	Hordeum brachyantherum	Meadow Barley	40.00%
	Bromus carinatus	California Brome	26.00%
	Lupinus albalculis	Sickle Keeled Lupine	20.00%
	Camassia quamash	Camas	4.00%
	Festuca romerii	Romers Fescue	3.90%
	Carex obnupta	Slough Sedge	3.50%
	Deschampsia caespitosa	Tufted Hairgrass	2.00%
	Juncus tenuis	Slender Rush	0.10%
	Agrostis exerata	Spike Bentgrass	0.50%

**Coastal Grasslands** mixture is specially formulated for the coastal areas between the sand dune flats up to a 4000' elevation. An excellent seed mixture for all wet lying or brackish waters along the coast, from Northern California to Southern BC. Native biofiltration, rainwater garden, or wet meadow.

 <b>\$25.50 per lb.</b> <b>Seed Rate 1.5</b> <b>1.5 lbs. per 1000 sq. ft.</b> 	Bromus carinatus	California Brome	25.00%
	Lupinus albaculus	Sickle Keeled Lupine	25.00%
	Elymus elymoides	Slender Wheatgrass	19.00%
	Gaillardia aristata	Gaillardia	12.00%
	Lotus purshianus	Spanish Clover	8.00%
	Festuca occidentalis	Western Fescue	4.00%
	Eschscholzia californica	California Poppy	4.00%
	Koeleria cristata	Prairie Junegrass	1.50%
	Clarkia unguiculata	Elegant Clarkia	1.00%
	Achillea millefolium	Western Yarrow	0.50%


**Eco Prairie** is a Native Eco mix that has been designed for low maintenance / no maintenance sites. Eco Prairie has a high percentage of wildflowers and legumes which provide excellent nitrogen fixation. This combination of low growing native grasses and low growing wildflowers is very drought tolerant.

 <b>\$118.50 per lb.</b> <b>Seed Rate</b> <b>.5 lb. per 1000 sq. ft.</b>	Pseudotsuga menziesii	Douglas Fir	40.00%
	Abies grandis	Grand Fir	25.00%
	Mahonia nervosa	Tall Oregon Grape	15.00%
	Oemleria cerasiformis	Indian Plum	11.00%
	Sambucus cerulea	Blue Elderberry	6.00%
	Thuja plicata	Western Red Cedar	2.50%
	Holidiscus discolor	Ocean Spray	0.25%
	Gaultheria shallon	Salal	0.25%


**Fir Forest Mix** is used when a diverse fir community is desired. These species are slow to establish and it is recommended that a native erosion control mix be used in combination. In time this mix will add excellent biodiversity and a sustainable ecosystem. EcoLive™ organics w/mycorrhize is recommended with this mixture.

 <b>\$9.95 per lb.</b> <b>Seed Rate</b> <b>1 lb. per 1000 sq. ft.</b>	Elymus glaucus	Blue Wildrye	40.00%
	Bromus carinatus	California Brome	40.00%
	Festuca rubra rubra	Native Red Fescue	15.00%
	Deschampsia caespitosa	Tufted Hairgrass	5.00%

**Grasslands** mix is designed as a native for areas of emerging wetlands, and provides excellent biofiltration in natural vegetated swales. Excellent for erosion protection and large natural areas.

 <b>\$12.50 per lb.</b> <b>Seed Rate</b> <b>.5 lb. per 1000 sq. ft.</b>	Agropyron riparium	Sodar Streambank Wheatgrass	25.00%
	Festuca ovina var Covar	Covar Sheep Fescue	25.00%
	Poa ampla	Sherman's Big Bluegrass	16.00%
	Agropyron spicatum	Bluebunch Wheatgrass	16.00%
	Poa canbyi	Canbar Canby Bluegrass	9.00%
	Lupinus albalculus	Sicklekeeled Lupine	9.00%

**Great Basin** is a native introduced upland habitat builder and erosion control mix. This mix is a primary upland mix of ODOT.

Mix Name	Botanical Name	Common Name	Mix Composition
 <b>\$161.50 per lb.</b> <b>Seed Rate</b> <b>.5 lb. per 1000 sq ft.</b>	Carex obnupta	Slough Sedge	27.00%
	Carex microptera	Small Wing Sedge	25.00%
	Carex stipata	Awl Sedge	29.50%
	Eleocharis palustris	Creeping Spike Rush	15.00%
	Scirpus microcarpus	Small Fruited Bulrush	3.00%
	Juncus tenuis	Slender Rush	0.50%



**Marsh** is a native wetland mix designed for a balance of site stabilization and wetland mitigation. Marsh combines wetland rushes and sedges that provided both food and shelter to a wide variety of wild game. It provides wetland species that establish easily in disturbed sites.

 <b>\$16.95 per lb.</b> <b>Seed Rate</b> <b>1 lb. per 1000 sq ft.</b>	Bromus carinatus	California Brome	50.00%
	Festuca ovina	Sheep fescue	18.00%
	Eschscholzia californica	California Poppy	8.00%
	Gaillardia pulchella	Indian Blanket	5.50%
	Achillea millefolium	Western Yarrow	5.00%
	Deschampsia caespitosa	Tufted Hairgrass	5.00%
	Lupinus bicolor	Bicolor Lupine	4.00%
	Koleria cristata	Praire Junegrass	3.50%
	Linaria maroccana	Spurred Snapdragon	1.00%


**Meadow** mix is a native grass wildflower combination. Excellent erosion control mix for large disturbed sites. Establishes quickly, and provides good habitat for wildlife.

 <b>\$13.95 per lb.</b> <b>Seed Rate</b> <b>1lb. per 1000 sq.ft</b>	Hordeum brachyantherum	Meadow barley	40.00%
	Bromus carinatus	California Brome	35.00%
	Festuca rubra rubra	Native Red Fescue	20.00%
	Deschampsia caespitosa	Tufted hairgrass	3.00%
	Agrostis exerata	Spike Bentgrass	2.00%

**Native E/C Mix** is used when a quick establishing native erosion control mix is required. We recommend using Native EC in combination with all our woody plant mixtures, along with EcoLive™ organics. This mix will provide a dense and fibrous root structure and will establish easily and quickly.

 <b>\$21.25 per lb.</b> <b>Seed Rate</b> <b>1 lb. per 1000 sq ft.</b> 	Festuca rubra rubra	Native Red Fescue	45.00%
	Bouteloua gracilis	Blue Grama	25.00%
	Buchole dactyloides	Buffalograss	20.00%
	Koeleria macrantha	Prairie Junegrass	7.00%
	Trifolium fragiferum	Strawberry Clover	3.00%

**Eco Turf** is a Native Eco Lawn mix that has been designed for low maintenance / no maintenance sites. Use this new mix when a Native Eco Lawn is desired. Similar to other "EcoLawns" but this one is NATIVE!!

 <b>\$55.95 per lb.</b> <b>Seed Rate</b> <b>.5 lb. per 1000 sq ft.</b>	Calamagrostis canadensis	Bluejoint Reedgrass	10.00%
	Alopecurus geniculatus	Water Foxtail	25.00%
	Alisima plantago aquatica	Water Plantain	15.00%
	Helianthus annuus	Sunflower	36.00%
	Scirpus microcarpus	Small Fruited Bulrush	3.00%
	Deschampsia elongata	Slender Hairgrass	10.00%
	Typhila latifolia	Cattails	1.00%
	EcoLive™ Organics	EcoLive™ Organics w Mycorrhize	

**Native Mix Phyto remediation** describes the treatment of environmental problems (bioremediation) through use of plants. It is an excellent native seed mix with very hardy and large plants. This mixture is used for removing heavy metals, pesticides, solvents, explosives, petrochemicals, and their derivatives. The addition of EcoLive™ organics will develop the root structure and increase rhizofiltration, a form of bioremediation that involves filtering water through a mass of roots to remove toxic substances or excess nutrients.

Mix Name	Botanical Name	Common Name	Mix Composition
 <b>\$58.50 per lb.</b> <b>Seed Rate 1</b> <b>1 lb. per 1000 sq.ft.</b> 	Nemophila menziesii	Baby Blue Eye's	20.00%
	Hordeum brachyantherum	Meadow Barley	18.50%
	Gailardia aristata	Indian Blanket	18.00%
	Layia platyglossa	Tidy Tips	13.00%
	Lupinus rivularis	River Lupine	10.00%
	Camassia quamash	Camas	7.00%
	Deschampsia caespitosa	Tufted Hairgrass	4.50%
	Rudbeckia hirta	Black Eyed Susans	3.50%
	Lobularia maritima	Sweet Alyssum	2.00%
	Achiella millifolium	Western Yarrow	1.75%
	Erigeron speciosus	Aspen Daisy	1.25%
	Holidiscus discolor	Ocean Spray	0.50%



**Native Pollinator Mix** is a beautifully designed wildflower-grass mixture that attracts native pollinators such as honey bees and butterflies. The wildflowers make up over 70% of this mix and will provide the habitat to encourage pollinators to do their thing. Native plants can serve as larval host plants for some species of pollinators.

Mix Name	Botanical Name	Common Name	Mix Composition
 <b>\$14.95 per lb.</b> <b>Seed Rate</b> <b>1.5 lbs. per 1000 sq. ft.</b>  	Hordeum vulgare var Poco	Poco Barley	50.00%
	Elymus wawawainensis	Secar Bluebunch Wheatgrass	8.00%
	Agropyron spicatum	Bluebunch Wheatgrass	8.00%
	Lupinus albicaulis	Pine Lupine	7.00%
	Festuca idahoensis	Idaho fescue	5.00%
	Nassella viridula	Green Needlegrass	5.00%
	Elymus elymoides	Bottlebrush Squirreltail	4.00%
	Purshia tridentata	Antelope Bitterbrush	3.00%
	Poa ampla var shermans	Sherman's Big Bluegrass	2.50%
	Poa sandbergii	Sandberg's Bluegrass	2.00%
	Balsamorhiza sagittata	Arrowleaf Balsamroot	1.50%
	Koeleria cristata	Prairie Junegrass	1.50%
Achiella millefolium	Western Yarrow	1.50%	
Eriogonium umbellatum	Sulfer Buckwheat	1.00%	

**Rangeland** is a combination of native grasses and forbs designed for habitat establishment with an emphasis on forage ability. Provides high quality forage for Deer, Elk and Upland Birds.

Mix Name	Botanical Name	Common Name	Mix Composition
 <b>\$8.95 per lb.</b> <b>Seed Rate</b> <b>3 lbs. per 1000 sq. ft.</b> 	Hordeum vulgare var Poco	Poco Barley	40.00%
	Hordeum brachyantherum	Meadow Barley	28.00%
	Bromus carinatus	California Brome	18.00%
	Festuca romerii	Roemers Fescue	5.50%
	Trifolium fragiferum	Strawberry Clover	4.00%
	Clarkia amonea	Dwarf Godieta	1.50%
	Oenothera hookerii	Evening Primrose	1.50%
	Deschampsia caespitosa	Tufted Hairgrass	1.00%
Agrostis exerata	Spike Bentgrass	0.50%	

**Roadside Native Salt Tolerant Mix** helps with successful vegetation along roadsides accomplishes several goals, from maintaining visibility and safety for travelers to minimizing erosion and maintenance costs. Research demonstrates that native plants are particularly well-suited to these tasks. Sunmark's Roadside mix is a quick establishing native erosion control mix. This mix is highly salt tolerant with the potential to dramatically lower overall maintenance costs.

Mix Name	Botanical Name	Common Name	Mix Composition
 <b>\$15.50 per lb.</b> <b>Seeding Rate</b> <b>2 lbs. per 1000 sq. ft.</b> 	Hordeum brachyantherum	Meadow Barley	50.00%
	Bromus carinatus	California Brome	30.00%
	Festuca romerii	Roemers Fescue	8.00%
	Deschampsia caespitosa	Tufted Hairgrass	1.50%
	Agrostis exerata	Spike Bentgrass	1.00%
	Trifolium fragiferum	Strawberry Clover	5.50%
	Clarkia amonea	Dwarf Godieta	2.00%
	Oenothera hookerii	Evening Primrose	2.00%

**Native Salt Tolerant Mix** is a quick establishing native erosion control mix that is an excellent performer in high saline environments. Salt tolerant grasses and flowers provide beautiful seed mixtures that are suitable for planting where soils have high concentrations of salt such as roadsides and near oceans.

Mix Name	Botanical Name	Common Name	Mix Composition
 <b>\$14.95 per lb.</b> <b>Seed Rate</b> <b>1 lb. per 1000 sq. ft.</b> 	Elymus glaucus	Blue Wildrye	50.00%
	Festuca rubra rubra	Native Red Fescue	15.00%
	Hordeum brachyantherum	Meadow Barley	10.00%
	Glyceria occidentalis	Western Mannagrass	10.00%
	Beckmannia syzigachne	American Sloughgrass	10.00%
Deschampsia caespitosa	Tufted Hairgrass	5.00%	

A **Native Vegetated Swale** is a broad, shallow channel, densely planted with a variety of trees, shrubs, and grasses. They are designed to attenuate and in some cases infiltrate runoff from adjacent impervious surfaces, allowing pollutants to settle out in the process. Sunmark's Native swale mix has been designed to accentuate this purpose. It is comprised of native species that establish quickly and provide phytoremediation of stormwater.

Mix Name	Botanical Name	Common Name	Mix Composition
 <b>\$14.25 per lb.</b> <b>Seed Rate 1</b> <b>1 lb. per 1000 sq. ft.</b> 	Elymus glaucus	Blue Wildrye	50.00%
	Festuca rubra rubra	Native Red Fescue	30.00%
	Bromus carinatus	California Brome	10.00%
	Agrostis exerata	Spike Bentgrass	10.00%

**Native Uplands Mix** is an excellent native dryland mixture that is easy to establish and maintain. This mix is a simple combination of drought tolerant, native grasses that once established will provide cover and erosion protection for many years.

Mix Name	Botanical Name	Common Name	Mix Composition
 <b>\$12.95 per lb.</b> <b>Seed Rate</b> <b>1 lb. per 1000 sq. ft.</b>	Elymus glaucus	Blue Wildrye	46.00%
	Festuca rubra rubra	Native Red Fescue	38.00%
	Deschampsia caespitosa	Tufted Hairgrass	12.00%
	Glyceria occidentalis	Western Mannagrass	2.00%
	Beckmannia syzigachne	American Sloughgrass	2.00%

**Native Water Quality** is a salmon friendly native mix will perform well in the bottom of drainage swales, storm water retention ponds, and bio-filtration swales. This mixture will range from the continuously wet lowlands up into the riparian zone, offering erosion control and habitat development.

Mix Name	Botanical Name	Common Name	Mix Composition
 <b>\$23.95 per lb.</b> <b>Seed Rate 1</b> <b>1 lb. per 1000 sq. ft.</b>	Hordeum brachyantherum	Meadow Barley	35.00%
	Glyceria occidentalis	Western Mannagrass	20.00%
	Festuca rubra rubra	Native Red Fescue	20.00%
	Alopecurus genicaultius	Water Foxtail	13.00%
	Eleocharis palustris	Creeping Spike Rush	5.00%
	Beckmannia syziganche	American Sloughgrass	4.00%
	Deschampsia caespitosa	Tufted Hairgrass	2.50%
	Agrostis exerata	Spike Bentgrass	0.50%


**Native Wetlands Mix** is a native wetland grass mixture that is less expensive than Marsh. Comprised mostly of wetland grasses this mix will establish readily and provide good erosion control and improved habitat. Use in the lower areas of bioswales and the low lying flood plain in the wetland zone.

Mix Name	Botanical Name	Common Name	Mix Composition
 <b>\$61.75 per lb.</b> <b>Seed Rate</b> <b>1 lb. per 1000 sq. ft.</b>	Acer macrophyllum	Big Leaf Maple	30.00%
	Arbutus menziesii	Pacific Madrone	20.00%
	Quercus garryana	Oregon White Oak	15.00%
	Pinus ponderosa	Ponderosa Pine	15.00%
	Lupinus polyphillis	Many Leaved Lupine	10.00%
	Elymus glaucus	Blue Wildrye	3.05%
	Arctostaphylos uva-ursi	Bearberry	3.00%
	Balsamorhiza sagittata	Arrowleaf Balsamroot	2.00%
	Symphoricarpus albus	Snowberry	1.80%
	Spirea douglasii	Douglas Spirea	0.10%
	Agrostis exerata	Spike Bentgrass	0.05%

**Oak Savannah Mix** is an excellent blend of native shrub trees and grass mixture for reclamation of natural oak shrub scrub sites, providing excellent habitat enhancement and erosion control. Oak Savannah mix may be used in native plantings for reclamation throughout the Pacific Northwest. EcoLive™ organics w/mycorrhize is recommended with this mixture.

 <b>\$115.95 per lb.</b> <b>Seed Rate</b> <b>.75 lb. per 1000 sq. ft.</b>	Pinus monticola	Western White Pine	30.00%
	Pinus ponderosa	Ponderosa Pine	25.00%
	Abies concolor	White Fir	25.00%
	Pinus contorta var murrayana	Lodgepole Pine	6.00%
	Pseudotsuga menziesii	Douglas Fir	5.00%
	Arctostaphylos ura-ursi	Bearberry	3.00%
	Picea pungens glauca	Blue Spruce	2.00%
	Symphoricarpus alba	Snowberry	2.00%
	Ceanothus velutinus	Snowbrush	1.50%
	Chrysothamnus nauseosus	Rubber Rabbitbrush	0.50%

**Pine Forest Mix** will flourish in the colder drier temperate regions of the Pacific Northwest. These species are slow to establish and it is recommended that a native erosion control mix be used in combination. This mixture has good fire tolerance and should be used in restoration and habitat enhancement. EcoLive™ organics w / mycorrhize is recommended with this mixture.

 <b>\$7.95 per lb.</b> <b>Seed Rate 1.5</b> <b>1.5 lb. per 1000 sq. ft.</b>	Agropyron spicatum var Anatone	Anatone Bluebunch Wheatgrass	35.00%
	Elymus elymodies	Slender Wheatgrass	30.00%
	Festuca idahoensis	Idaho Fescue	20.00%
	Oryzopsis hymenoides	Indian Ricegrass	10.00%
	Festuca ovina	Sheep Fescue	5.00%

**Prairie Native Seed Mix** has been designed as a native upland habitat builder, combining winter hardy, drought resistant prairie grasses that establish easily and provide excellent erosion control. Native Prairie is an inexpensive native mix that works well for highway roadsides and low rainfall areas.

 <b>\$86.95 per lb.</b> <b>Seed Rate</b> <b>1 lb. per 1000 sq. ft.</b>	Crataegus douglasii	Black Hawthorne	35.00%
	Fraxinus latifolia	Oregon Ash	30.00%
	Symphoricarpus albus	Snowberry	12.00%
	Glyceria elata	Tall Mannagrass	10.00%
	Cornus stolonifera	Red-Osier Dogwood	7.00%
	Carex obnupta	Slough Sedge	4.00%
	Alnus rubra	Red Alder	1.80%
	Populus tremuloides	Quaking Aspen	0.10%
	Populus trichocarpua	Black Cottonwood	0.10%


**Riverside Woods Mix** is an excellent native shrub, tree and grass mixture for reclamation of natural low lying sites. Providing excellent habitat enhancement and erosion control. Riverside Woods mix may be used in native plantings for reclamation throughout the interior valleys of the Pacific Northwest. EcoLive™ organics w/mycorrhize is recommended with this mixture.

Mix Name	Botanical Name	Common Name	Mix Composition
 <b>\$36.50 per lb.</b> <b>Seed Rate</b> <b>1 lb. per 1000 sq. ft.</b> 	Hordeum brachyantherum	Meadow barley	38.50%
	Bromus carinatus	California Brome	20.00%
	Festuca rubra rubra	Native Red Fescue	12.00%
	Glyceria occidentallis	Western Mannagrass	10.00%
	Deschampsia caespitosa	Tufted hairgrass	2.00%
	Agrostis exerata	Spike Bentgrass	1.25%
	Rosa nutkana	Nutkana Rose	5.00%
	Symphoricarpus alba	Snowberry	5.00%
	Spirea douglasii	Douglas Spirea	2.50%
	Mahonia aquilifolium	Tall Oregon Grape	3.50%
	Holidiscus discolor	Ocean Spray	0.25%

**Shrub Swamp** is an excellent mix for native seeding projects that requires a quickly establishing grass-forb mix with woody plants. Over time, the woody plants in Shrub Swamp will take over and create a shrub and tree community. Excellent for streambank and shoreline applications.

 <b>\$10.00 per lb.</b> <b>Seed Rate 1</b> <b>1 lb. per 1000 sq. ft.</b>	Elymus glaucus	Blue Wildrye	60.00%
	Festuca rubra rubra	Native Red Fescue	30.00%
	Bromus carinatus	California Brome	10.00%

**Stream Bank** provides excellent erosion protection in the riparian zone. Also performs well on well drained dryer sites.

 <b>\$12.95 per lb.</b> <b>Seed Rate 1.5</b> <b>1.5 lbs. per 1000 sq. ft.</b>	Festuca rubra rubra	Native Red Fescue	50.00%
	Bromus carinatus	California Brome	20.00%
	Elymus glaucus	Blue Wildrye	20.00%
	Lupinus rivularis	Streambank Lupine	10.00%

**Streambank Plus** provides excellent Erosion protection with the added benefit of Lupine, a perennial forb.

 <b>\$15.50 per lb.</b> <b>Seed Rate .75</b> <b>.75 lb. per 1000 sq. ft.</b>  	Pseudoroegneria spicata	Bluebunch Wheatgrass	20.00%
	Bromus carinatus	California Brome	16.50%
	Festuca idahoensis	Idaho Fescue	15.00%
	Elymus elymodies	Slender Wheatgrass	15.00%
	Elymus glaucus	Blue Wildrye	15.00%
	Glyceria occidentallis	Western Mannagrass	10.00%
	Deschampsia caespitosa	Tufted Hairgrass	3.00%
	Lotus purshania	Spanish Clover	2.50%
	Eleocharis palustris	Creeping Spike Rush	1.00%
	Lupinus albaculus	Sickle Keeled Lupine	1.00%
Agrostis exerata	Spike Bentgrass	1.00%	

**Wapiti Pasture** is a native habitat builder consisting of a perennial grass-legume mix. It provides excellent nutrition for deer and elk and many other browsing species. Wapiti Pasture is easy to establish and has very deep roots that make it drought tolerant. This mix works well in wet pastures and dry sites alike as it is a combination of FACW species and FACU species. Many of the species are recommended by Fish and Wildlife for restoration of native forage areas.

Mix Name Botanical Name Common Name Mix Composition



<p><b>\$54.95 per lb.</b>  <b>Seed Rate</b>  <b>1lb. per 1000 sq. ft.</b></p>	Horedum brachyantherum	Meadow Barley	25.00%
	Danthonia californica	California Oatgrass	25.00%
	Glyceria occidentalis	Western Mannagrass	15.00%
	Deschampsia cespitosa	Tufted Hairgrass	7.00%
	Sisyrinchium idahoense	Blue Eyed Grass	6.00%
	Camassia quamish	Camas	5.00%
	Festuca rubra rubra	Native Red Fescue	5.00%
	Carex obnupta	Slough Sedge	5.00%
	Beckmannia syzigachne	American Sloughgrass	3.00%
	Eleocharis palustris	Creeping Spike Rush	2.00%
	Erigeron speciosus	Aspen Daisy	2.00%

**Wet Prairie Mix**, designed to reestablish the ancient Prairies that were here prior to the development of agriculture. Wetland Prairie communities sustained many Native American tribes, and was home to countless species of wildlife. From Northern California to Southern BC wetland prairie communities made up over one third of the flora in the lower lying river valleys.



<p><b>\$97.50 per lb.</b>  <b>Seed Rate</b>  <b>.25lb. per 1000 sq. ft.</b></p>	Rosa nutkana	Nutkana Rose	25.00%
	Symplocarpus alba	Snowberry	20.00%
	Cornus stolneferia serica	Red Osier Dogwood	18.00%
	Amelanchier alnifolia	Serviceberry	14.75%
	Mahonia repens	Creeping Oregon Grape	10.00%
	Sambucus racemosa	Red Elderberry	9.00%
	Alnus rubra	Red Alder	3.00%
	Holiduscus discolor	Ocean Spray	0.25%

**Woodlands Mix** is an excellent Native Tree/Shrub mix for site stabilization and erosion control of steep vegetated-slopes. Woodlands is also used in Native plantings for reclamation of forested understudy where a non-grass community is desired. EcoLive™ organics w mycorrhize is recommended with this mixture.



**\$6.00 per lb.**  
**50 lbs per acre**

**Regreen**, a wheat x wheatgrass hybrid that produces a sterile plant. After it dies out it does not leave a new generation of plants behind to compete with the slower growing perennial species. A highly versatile temporary cover crop, Regreen can be planted in either the spring or fall in most climates. A large seed allows Regreen to germinate quickly and get one step ahead of any potential weeds. A dense, fibrous root system enhances Regreen's ability to stabilize the soil surface and provide vigorous seedlings. A deep root system also allows the plant to be drought tolerant, winter hardy and adaptable to varying soil and moisture conditions.





# EROSION CONTROL MIXES

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Sunmark carries a full line of erosion control seed and seed mixes. These mixes are formulated to offer a high degree of erosion protection with extremely fast germination for use on areas which are subject to wind and water erosion. These mixes include the newest species varieties available and will provide better protection for highly erodible sites. Please contact us for consultation on your individual projects.



Mix Name	Botanical Name	Common Name	Mix Composition
<b>biofiltermix</b> 	Rubra rubra	Cindy Lou Creeping Red Fescue	22.50%
	Lolium perenne	Allstar III Perennial Ryegrass	70.00%
	Puccinellia pumila var Fults	Fults Alkaligrass	5.00%
	Agrostis stolonifera var. Seaside	Seaside Creeping Bentgrass	2.50%
			


**\$1.95 per lb.**  
**Seed Rate**  
**5 lbs. per 1000 sq. ft.**

**Bio Filter Mix** is for storm water run off in natural vegetated swales. Provides filtration before reaching major river drainages.

	Agropyron trachyantherum	Slender Wheat Grass	20.00%
	Lolium perenne	Perennial Ryegrass	20.00%
	Dactylis glomerata	Orchardgrass	20.00%
	Festuca rubra	VNS Creeping Red Fescue	20.00%
	Festuca ovina	VNS Sheep Fescue	10.00%
	Trifolium repens	White Clover	10.00%


**\$2.45 per lb.**  
**Seed Rate**  
**4lbs. per 1000 sq. ft.**

**E/C Dry Mix** is an excellent erosion control in dry non-irrigated open areas.

	Festuca arundinicia	Overtime Tall Fescue	25.00%
	Festuca rubra	Creeping Red Fescue	30.00%
	Lolium perenne	Perennial Ryegrass	24.00%
	Trifolium pratense	Red Clover	20.00%
	Agrostis tenuis var. Highland	Highland Colonial Bentgrass	1.00%


**\$2.25 per lb.**  
**Seed Rate**  
**5 lbs. per 1000 sq. ft.**

**E/C Mid Mix** is an excellent for erosion control in areas of transition, from wet to dry sites in non-fertile soils.

	Lolium perenne	Perennial Ryegrass	30.00%
	Festuca arundinicia	Fawn Tall Fescue	20.00%
	Brassica juncea	Indian Mustard	8.00%
	Helianthus annuus	Sunflower	15.00%
	Phleum pratense	Timothy	2.00%
	Onobrychis viciaefolia	Sainfoin	17.00%
	Lathyrus latifolius	Perennial Pea	8.00%
	EcoLive™ Organics	Organic Humates w Mycorrhize	

**\$13.50 per lb.**  
**Seed Rate**  
**4 lbs. per 1000 sq. ft.**

**E/C Phytoremediation Mix** describes the treatment of the environmental problems (bioremediation) through use of plants. This mixture is quick establishing with very hardy and large plants. The addition of EcoLive™ organics will develop the root structure, and increase rhizofiltration, a form of bioremediation that involves filtering water through a mass of roots to remove toxic substances or excess nutrients.


	Festuca rubra	Creeping Red Fescue	45%
	Trifolium repens	White Clover	15%
	Dactylis glomerata	Orchardgrass	20%
	Agrostis tenuis	Highland Colonial Bentgrass	2%
	Trifolium fragiferum	Strawberry Clover	18%

**\$2.55 per lb.**  
**Seed Rate**  
**3 lbs. per 1000 sq. ft.**

**E/C Wet Mix** is an excellent erosion control in wet and saturated soils.

Mix Name	Botanical Name	Common Name	Mix Composition
<b>Eco Lawn</b>	Lolium perenne	Perennial Ryegrass	60.00%
	Festuca trachyphylla	Hard Fescue	15.00%
	Achillea millefolium	White Yarrow	8.00%
	Alyssum maritimum	Sweet Alyssum	3.00%
<b>\$8.95 per lb.</b>	Trifolium repens	White Clover	8.00%
<b>Seed Rate</b>	Trifolium fragiferum	Strawberry Clover	6.00%
<b>3 lbs. per 1000 sq. ft.</b>			

Standard **Ecolawn Mixture** for quick establishing a wildflower based turf ground cover. EcoLawn is excellent for large commercial areas that need quick cover with the addition of wildflowers. EcoLawn is our lowest priced Eco seed mix.


	Lolium perenne	Perennial Ryegrass	58.00%
	Festuca brevipila	Hard Fescue	18.00%
	Achiella millefolium	White Yarrow	1.00%
	Lupinus bicolor	Miniature Lupine	2.50%
	Trifolium repens	White Clover	3.00%
	Trifolium fragiferum	Strawberry Clover	6.00%
	Eschscholzia californica	California Poppy	6.00%
	Alyssum maritimum	Sweet Alyssum	3.00%
	Chyantherum maximum dwarf	Dwarf Shasta Daisy	1.00%
	Clarkia amoena	Godetia	1.50%

**\$9.25 per lb.**  
**Seed Rate**  
**4.75 lbs. per 1000 sq. ft.**

**EcoLawn Plus** is a quick establishing turf-wildflower ground cover with additional varieties of wildflowers than those contained in Eco Lawn. Eco Lawn Plus has a native legume that is utilized for nitrogen fixation and will provide years of maintenance free grass cover.

	Festuca rubra var. sealink	SeaLink Slender Creeping Red Fescue	55.00%
	Festuca ovina var azay blue	Azay Blue Sheep Fescue	18.00%
	Trifolium fragiferum	Strawberry Clover	8.00%
	Nemophila menziesii	Baby Blue Eye's	5.00%
	Limnanthes douglasii	Douglas Meadowfoam	4.00%
	Armeria maritima	Sea Pink	2.00%
	Trifolium repens	White Clover	3.00%
	Alyssum maritimum	Dwarf White Alyssum	2.50%
	Achillea millefolium	Dwarf White Yarrow	1.50%
	Bellis perennis	Dwarf English Daisy	1.00%

**\$15.50 per lb.**  
**Seed Rate**  
**2 lbs. per 1000 sq. ft.**




 

**Ecology Mix** is a unique, ecologically balanced turf/wildflower ground cover seed mix. Excellent lawn substitute where low maintenance cover is desired.

	Festuca ovina var Azzay Blue	Azzay Blue Sheep Fescue	27.00%
	Nemophila menziesii	Baby Blue Eye's	17.00%
	Prunella vulgaris	Self Heal	17.00%
	Poa sandbergii	Sandberg's Bluegrass	16.00%
	Clarkia amoena	Dwarf Godieta	8.00%
	Cerastium biebersteinii	Snow in Summer	7.00%
	Myosotis sylvatica	Forget-me-not	3.00%
	Agrostis stolonifera	Creeping Bentgrass	3.00%
	Bellis perennis	Dwarf English Daisy	2.00%

**\$40.00 per lb.**  
**Seed Rate**  
**.75 lbs. per 1000 sq. ft.**

**Green Roof Ecology Mix** is specialized ecolawn for greenroof applications this mix does well in low profile and poor soils. Short vertical growth habit will add beautiful color to your greenroof.

Mix Name	Botanical Name	Common Name	Mix Composition	Mix Name	Botanical Name	Common Name	Mix Composition
 <b>Green Roof Ecology Mix II</b> \$63.50 per lb. Seed Rate .5 lbs. per 1000 sq. ft. 	Limnanthes douglasii	Meadowfoam	33.00%	 <b>odot uplandmix</b> \$5.75 per lb. Seed Rate 1 lbs. per 1000 sq. ft.	Elymus lanceolatus	Thickspike Wheatgrass	32.00%
	Nemophila menziesii	Baby Blue Eye's	20.00%		Elymus lanceolatus ssp. psammophilus	Sodar Streambank	32.00%
	Prunella vulgaris	Self Heal	12.00%		Agropyron cristatum	Crested Wheatgrass	24.00%
	Festuca ovina	Sheep Fescue	10.00%		Festuca ovina var covar	Covar Sheep Fescue	7.00%
	Clarkia amoena	Dwarf Godieta	6.00%		Poa ampla var shermans	Sherman's Big Bluegrass	5.00%
	Cerastium biebersteinii	Snow in Summer	6.00%				
	Myosotis sylvatica	Forget-me-not	6.00%				
	Poa sandbergii	Sandberg's Bluegrass	4.00%				
	Bellis perennis	Dwarf English Daisy	2.50%				
	Agrostis stolonifera	Creeping Bentgrass	0.50%				



**Green Roof Ecology Mix II** is a new mix that has a high percentage of herbaceous plant species. Meadowfoam is a primary component of this mix that adds fireworks to the wildflower display in the spring and fall. With over 80 percent of the mix consisting of wildflowers and forbs, this mix does extremely well in poor, shallow green roof soils. Very drought tolerant and little need for synthetic fertilizer makes this mix is an excellent re-seeder.

**Oregon Department of Transportation Upland Mix** is an upland wheatgrass mix consisting of excellent performing wheatgrasses with extended root depths for deep soils.

 <b>lawnbloomers</b> \$18.75 per lb. Seed Rate 1 lbs. per 1000 sq. ft.	Lolium perenne var Celebration	Celebration Perennial Rye	50.00%	 <b>SALT TOLERANT</b> \$1.95 per lb. Seed Rate 3 lbs. per 1000 sq. ft. 	Lolium perenne	Allstar III Perennial Ryegrass	61.00%
	Festuca brevipila var Spartan	Spartan Hard Fescue	17.00%		Festuca rubra var.Sealink	Sealink Slender Creeping Red Fescue	30.00%
	Festuca ovina var Azay Blue	Azay Blue Sheep Fescue	10.00%		Puccinellia pumila	Fults Alkaligrass	5.50%
	Trifolium fragiferum	Strawberry Clover	6.00%		Agrostis stolonifera	Seaside Creeping Bentgrass	3.50%
	Lobularia maritima (dwarf)	Royal Carpet	4.00%				
	Trifolium repens	Dutch White Clover	5.00%				
	Anagallis arvensis	Pimpernell	3.00%				
	Eschscholzia caespitosa	Dwarf California Poppy	4.00%				
	Silene armeria dwarf	Dwarf Catchfly	1.00%				
	Bellis perennis	Dwarf English Daisy	1.00%				

**Lawn Bloomers** provides incredible color with a quick establishing, low maintenance turfgrass. Lawn Bloomers is a supreme mix for low mow and no mow areas. Low fertilizer requirements and excellent drought resistance.

**Salt Tolerant Mix** is designed for quick establishment and provides excellent cover on high salt sites. This mix is an excellent choice for bioswales, roadsides and any other areas where a dense vegetative cover is desired.

 <b>odot mix</b> \$1.50 per lb. Seed Rate 1 lbs. per 1000 sq. ft.	Lolium perenne	Perennial Ryegrass	39.00%	 <b>Stabilizer E/C MIX</b> \$1.35 per lb. Seed Rate 10 lbs. per 1000 sq. ft.	Lolium perenne var. Turfnet	Turfnet Perennial Rye	40.00%
	Festuca commutata	Chewings Fescue	25.00%		Lolium multiflorum var TXR	TXR Annual Ryegrass	40.00%
	Festuca rubra	Creeping Red Fescue	25.00%		Festuca rubra	Creeping Red Fescue	16.00%
	Agrostis tenuis	Highland Colonial Bentgrass	7.00%		Trifolium repens	White Clover	3.75%
	Trifolium repens	White Clover	4.00%		Agrostis tenuis	Highland Colonial Bentgrass	0.25%




**Oregon Department of Transportation Mix** is quick to establish and provides good coverage.

**Stabilizer E/C Mix** is for site stabilization and erosion control where quick establishment, low growing characteristics are desired.

 <b>odot e/c mix</b> \$1.95 per lb. Seed Rate 2 lbs. per 1000 sq. ft.	Lolium multiflorum var TXR	TXR Annual Ryegrass	60.00%	 <b>supreme plusmix</b> \$1.50 per lb. Seed Rate 4 lbs. per 1000 sq. ft.	Festuca arundinacea	Crossfire 3 Turf Type Tall Fescue	40.00%
	Festuca rubra var Sealinks	Sealinks Slender Creeping Red Fescue	18.00%		Lolium perenne	Turfnet Perennial Rye	30.00%
	Festuca brevipila var Spartan II	Spartan II Hard Fescue	15.00%		Festuca rubra	Creeping Red Fescue	25.00%
	Trifolium repens	White Clover	4.00%		Agrostis tenuis	Highland Colonial Bentgrass	5.00%
	Puccinellia pumila	Fults Alkaligrass	3.00%				

**Oregon Department of Transportation Erosion Control Mixture** for dry regions of the state.

**Supreme Plus Mix** is a highly effective erosion control seed mix that establishes quickly. Develops a dense thick vegetative cover and provides a long lasting erosion control solution.

 <b>Xeriscape ecolawnmix</b> \$16.50 per lb. Seed Rate 2 lbs. per 1000 sq. ft.	Festuca ovina var. Covar	Covar Sheep Fescue	15.00%	 	Festuca ovina var. Covar	Covar Sheep Fescue	15.00%
	Petalostemum purpureum	Purple Prairie Clover	15.00%		Petalostemum purpureum	Purple Prairie Clover	15.00%
	Centaurea cyanus dwarf	Dwarf Bachelor Buttons	12.00%		Centaurea cyanus dwarf	Dwarf Bachelor Buttons	12.00%
	Poa sandbergii	Sandberg Bluegrass	6.00%		Poa sandbergii	Sandberg Bluegrass	6.00%
	Nemophila menziesii	Baby Blue Eye's	5.00%		Nemophila menziesii	Baby Blue Eye's	5.00%
	Trifolium repens	White Clover	2.00%		Trifolium repens	White Clover	2.00%
	Lobularia maritum dwarf	Alyssum Carpet of Snow	2.00%		Lobularia maritum dwarf	Alyssum Carpet of Snow	2.00%
	Sphaeralcea coccinea	Scarlet Globmallow	2.00%		Sphaeralcea coccinea	Scarlet Globmallow	2.00%
	Achillea millefolium	Dwarf White Yarrow	1.00%		Achillea millefolium	Dwarf White Yarrow	1.00%

**Xeriscape EcoLawn Mix** has been developed as a very low growing, extremely drought tolerant grass/wildflower ground cover. This mixture has a very high ratio of wildflower to grasses and will flourish in very low rainfall areas. This unique mixture of sod and clump grasses, legumes, and wildflowers has been designed to provide an ecological alternative to typical turfgrass lawn.

## TURF MIXES

TURF MIXES

TURF MIXES



Sunmark provides turf seeds for athletic fields, golf courses, commercial landscaping, parks, roadsides, and fine residential lawns. Our mixtures use the newest varieties available and continually push the envelope of supreme performance and beauty. Sunmark's association with the leaders in commercial and university seed breeding provides new species that are constantly evaluated in the field and with the National Turfgrass Evaluation Program. **Sunmark's Celebration** (3-way perennial ryegrass blend) has set new standards with a darker green color and the latest improvements in perennial ryegrass. **DOT Multipurpose** and **Northwest Supreme Lawn Mix** are our supreme low maintenance mixes and our **Sun** and **Shadow** mixes are outstanding turf performers in their respected areas. Please contact us for information on the best use of each of our premium turf seed mixtures.



Mix Name	Botanical Name	Common Name	Mix Composition	Mix Name	Botanical Name	Common Name	Mix Composition
 <b>\$1.35 per lb.</b> <b>Seed Rate</b> <b>8 lbs per 1000 sq. ft</b>	Lolium perenne	Buena Vista Perennial Ryegrass	34.00%	 <b>\$1.65 per lb.</b> <b>Seed Rate</b> <b>8 lbs per 1000 sq. ft</b>	Lolium perenne	Cutter II Perennial Ryegrass	20.00%
	Lolium perenne	Fusion Perennial Ryegrass	33.00%		Lolium perenne	Dasher III Perennial Ryegrass	20.00%
	Lolium perenne	Overdrive Perennial Ryegrass	33.00%		Festuca rubra	Garnet Creeping Red Fescue	20.00%
					Festuca rubra spp. Longifolia	Windward Chewings Fescue	20.00%
				Festuca rubra spp. Longifolia	Spartan 2 Hard Fescue	20.00%	
<p><b>Celebration</b> is dark green in color with a noticeably shorter vertical growth habit. It ranks in the top 10 of the National Turf Grass Evaluation Program, making it a great turf for Lawns, Golf Fairways, and Athletic Fields</p>				<p><b>Shadow</b> mixture is an excellent turfgrass mix developed for use in shade conditions. Shadow makes an excellent turf for mixed exposure and deep shade applications.</p>			
 <b>\$1.55 per lb.</b> <b>Seed Rate</b> <b>8 lbs per 1000 sq. ft</b>	Festuca arundnacea	Crossfire II Turf Type Tall Fescue	30.00%	 <b>\$2.75 per lb.</b> <b>Seed Rate</b> <b>5 lbs per 1000 sq. ft</b>	Poa pratensis	Crest Kentucky Bluegrass	25.00%
	Festuca arundnacea	Mustang IV Turf Type Tall Fescue	30.00%		Poa pratensis	Armada Kentucky Bluegrass	25.00%
	Lolium perenne	Blazer IV Perennial Ryegrass	15.00%		Poa pratensis	Quantum Leap Kentucky Bluegrass	20.00%
	Lolium perenne	Dasher III Perennial Ryegrass	15.00%		Lolium perenne	Cutter II Perennial Ryegrass	15.00%
	Festuca rubra	Jasper II Creeping Red Fescue	5.00%		Lolium perenne	Dasher III Perennial Ryegrass	15.00%
	Festuca rubra spp. Longifolia	Victory II Chewings Fescue	5.00%				
<p><b>Diamond Green Turf</b> mixture is a new, low-profile turf grass developed for use where high visibility, high quality turf is desired with low maintenance requirements. Diamond Green performs well in low fertility soils, provides excellent cover in both full sun and shaded areas and is both cold and heat tolerant.</p>				<p><b>Sports Turf</b> combines 3 excellent performing Kentucky bluegrass's with new varieties of perennial ryegrass creating a unique combination of some of the best individual turf seeds available today that meets the high demands of performance and appearance on the most elite athletic facilities.</p>			
 <b>\$1.50 per lb.</b> <b>Seed Rate</b> <b>8 lbs per 1000 sq. ft</b>	Lolium perenne	Quebec Perennial Rye	30.00%	 <b>\$1.35 per lb.</b> <b>Seed Rate</b> <b>8 lbs per 1000 sq. ft</b>	Lolium perenne	Cutter II Perennial Ryegrass	40.00%
	Lolium perenne	Express II Perennial Rye	30.00%		Lolium perenne	Express II Perennial Ryegrass	40.00%
	Festuca rubra spp fallax	Windward Chewings Fescue	20.00%		Festuca rubra	Garnet Creeping Red Fescue	10.00%
	Festuca rubra	Garnet Creeping Red Fescue	20.00%		Festuca rubra spp. Longifolia	Windward Chewings Fescue	10.00%
<p><b>DOT Multipurpose</b> mixture is a low-profile turf grass developed for use where high visibility, high quality turf is desired with low maintenance requirements. Best choice for large commercial sites in need of a low maintenance turf grass.</p>				<p><b>Sun Mixture</b> is an excellent turfgrass mix developed for use in Full Sun conditions. With a combination of 80% perennial ryegrasses and 20% fine fescues this mixture will provide an optimal turfgrass with a very dark green color.</p>			
 <b>\$1.10 per lb.</b> <b>Seed Rate</b> <b>10 lbs per 1000 sq. ft</b>	Festuca arundinacea	Hemi Turf Type Tall Fescue	40.00%	 <b>\$1.25 per lb.</b> <b>Seed Rate</b> <b>8 lbs per 1000 sq. ft</b>	Festuca arundinacea	Sequester Turf Type Tall Fescue	34.00%
	Festuca arundinacea	Bullseye Turf Type Tall Fescue	20.00%		Festuca arundinacea	Crossfire 3 Turf Type Tall Fescue	33.00%
	Festuca arundinacea	Turbo RZ Turf Type Tall Fescue	20.00%		Festuca arundinacea	Corona Turf Type Tall Fescue	33.00%
	Lolium perenne	Buena Vista Perennial Ryegrass	10.00%				
	Lolium perenne	Fusion Perennial Ryegrass	10.00%				
<p><b>Graze Manager</b> is a good choice for airports, athletic fields, parks, school grounds, golf course, and other lower maintenance industrial turf areas. ADVANTAGES of Graze Manager are its high entophyte content. Entophyte's are a beneficial fungus that resides in the plants. This fungus is not palatable to grazing animals or birds, keeping the nuisance of grazing animals to a minimum.</p>				<p><b>Team Jr.</b> is a high-quality tall fescue turf with slower growth characteristics. It combines the attributes of Pickseed's finest turf-type tall fescue varieties to produce a blend of maximum genetic diversity and adaptability. With some of the highest-performing dwarf and semi-dwarf varieties available to choose from, Team Jr. outperforms all other tall fescue blends.</p>			
 <b>\$1.60 per lb.</b> <b>Seed Rate</b> <b>10 lbs per 1000 sq. ft</b>	Lolium perenne	Cutter II Perennial Ryegrass	35.00%	 <b>\$1.60 per lb.</b> <b>Seed Rate</b> <b>10 lbs per 1000 sq. ft</b>	Lolium perenne	Fiesta 4 Spreading Ryegrass	34.00%
	Lolium perenne	Dasher III Perennial Ryegrass	35.00%		Lolium perenne	Dasher 3 Spreading Ryegrass	33.00%
	Festuca rubra	Garnet Creeping Red Fescue	15.00%		Lolium perenne	Seville 3 Spreading Ryegrass	33.00%
	Festuca rubra spp. Longifolia	Windward Chewings Fescue	15.00%				
<p><b>Northwest Supreme</b> is the premier seed blend for the Pacific Northwest. It is a good choice for home lawns, athletic fields, parks, school grounds, and golf courses. Less water is needed because of the deep root system. It adapts well to heat, shade and cold and stands up to heavy traffic.</p>				<p><b>Turf Net</b> Spreading Perennial Ryegrass is known for quick establishment, excellent wear tolerance and high turf quality. This new sub species of tillering perennial ryegrasses is transforming athletic fields across the country. Now you can establish or over seed a strong rhizomatous perennial rye that has excellent wear characteristics and rapid repair abilities!</p>			
 <b>\$1.40 per lb.</b> <b>Seed Rate</b> <b>8 lbs per 1000 sq. ft</b>	Lolium perenne	Dasher III Perennial Ryegrass	50.00%	 <b>\$1.05 per lb.</b> <b>Seed Rate</b> <b>10 lbs per 1000 sq. ft</b>	Lolium multiflorum	TXR Annual Ryegrass	60.00%
	Festuca arundinacea	Crossfire 3 Turf Type Tall Fescue	25.00%		Lolium perenne	VNS Perennial Ryegrass	30.00%
	Festuca rubra spp. Longifolia	Windward Chewings Fescue	20.00%		Festuca rubra	VNS Creeping Red Fescue	10.00%
	Poa pratense	Armada Kentucky Bluegrass	5.00%				
<p><b>Pro Sports</b> is recommended for use wherever high profile, high traffic premium turf grass is needed. It is a good choice for home lawns, athletic fields, parks, school grounds, and golf courses. Excellent recovery makes this mix best for athletic field turf.</p>				<p><b>Turf Worx</b> is an excellent, inexpensive, quick establishment contractor mix. Turf Worx is a blend of 60% TXR Transitional Annual Ryegrass, 30% Perennial Ryegrass, and 10% Creeping Red Fescue. It is an excellent choice where quick establishment is required along with high erosion protection. This mix is best used for quick establishment of vegetation for a low cost.</p>			

# FORAGE MIXES


FORAGE MIXES

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Sunmark provides improved forage, legumes and cover crop seeds to farmers, erosion control experts, wildlife biologists, livestock producers and horse professionals. We have focused on improved cultivars that are bred to produce more tonnage, withstand intensive grazing, provide superior erosion protection, and offer higher feed value. Sunmark's forage varieties and mixes have been evaluated by the top agricultural universities in the United States. Please give us a call for help on selecting the correct forage mixture for your project.




Mix Name	Botanical Name	Common Name	Mix Composition
 <b>Foothills</b> \$2.25 per lb. Seed Rate 3 lbs per acre	Lolium multiflorum tetraploid	Tetrastar Tetraploid	25.00%
	Lolium perenne	Annual Ryegrass	25.00%
	Dactylis glomerata	Albion Tetraploid	
		Perennial Rye	
		Quickdraw HSG	3.00%
		Orchardgrass	
		Crimson Clover	12.00%
	Trifolium repens	Domino White Clover	10.00%
	Trifolium repens	Ladino White Clover	5.00%

**Foothills** is an adapted seed mix that provides erosion control and good wildlife forage on low to mid-elevation sites. Quick to establish and very nutritious for deer and elk, with a high percentage of legumes. Foothills will provide excellent erosion protection and forageability on weak or disturbed sites.

 <b>Meadow Downs</b> \$1.95 per lb. Seed Rate 3 lbs per acre	Dactylis glomerata	Quickdraw HSG	25.00%	
	Lolium perenne	Orchardgrass		
		Albion Tetraploid	23.00%	
		Perennial Rye		
		Rustler Forage Tall Fescue	Rustler Forage	18.00%
		Lolium multiflorum tetraploid	Tall Fescue	18.00%
		Tetrastar Tetraploid		
		Annual Ryegrass		
	Phleum pratense	Titan Timothy	10.00%	
	Poa pratense	Kentucky Bluegrass	6.00%	
		Forage Type		


**Meadow Downs** is a premium forage seed mix for horses. With the unique nutritional needs of horses, Meadow Downs is specifically formulated for optimum forage value. Meadow Downs mixture provides the horse owner with endophyte-free pastures all season long. Each variety in Meadow Downs was selected to handle the close grazing habit of horses. This mix also performs excellently as a grass-hay pasture in all areas where cool-season forages are grown.

 <b>Sucra Seed Beef Bank</b> \$2.45 per lb. Seed Rate 1.25 lbs per acre	Lolium perenne	AberDart HSG	25.00%	
		Perennial Ryegrass		
		AberAvon HSG	25.00%	
		Perennial Ryegrass		
		AberEcho HSG Tetraploid	20.00%	
		Intermediate Ryegrass		
		Dactylis glomerata	QuickDraw Orchardgrass	15.00%
		Lolium multiflorum	Bandito Intermediate Ryegrass	10.00%
	Trifolium pratense	Medium Clover	3.00%	
	Trifolium repens var Ladino	Ladino Clover	2.00%	


**Beef Bank** High Sugar Grass pastures allows ranchers to work with nature to improve the health and yield of their livestock, pastures and ranching operations. This proven formula is the preferred choice of forward thinking farmers and ranchers throughout the Northwest, Midwest, Northeastern and Mid Atlantic regions, including grass fed, management intensive grazing, sustainable and organic farmers and ranch operations.

 <b>Sucra Seed Cash Cow</b> \$2.75 per lb. Seed Rate 1.25 lbs per acre	Lolium perenne	AberDart HSG	25.00%
	Lolium perenne	Perennial Ryegrass	
		AberAvon HSG	25.00%
		Perennial Ryegrass	
		AberEcho HSG Tetraploid	18.00%
		Intermediate Ryegrass	
		Medicago sativa	Perfect Alfalfa
	Lolium multiflorum	Bandito Intermediate Ryegrass	10.00%
	Phleum pratense	Kootenai Timothy	5.00%
	Trifolium repens	Ladino Clover	2.00%


**Cash Cow** is being used by progressive dairy farmers throughout the Northwest, Midwest, Northeastern and Mid-Atlantic regions are turning to Cash Cow and Sweet Silage's High Sugar Grass pasture mixes. These proven formulas, beneficial for both organic and non-organic farms, allow dairy farmers work with nature to improve the health and yield of their cows, pastures and dairy operations.

Mix Name	Botanical Name	Common Name	Mix Composition	
 <b>Sucra Seed Great Gains</b> \$2.45 per lb. Seed Rate 1 lb per acre	Lolium perenne	AberDart HSG	28.00%	
	Lolium perenne	Perennial Ryegrass		
		AberAvon HSG	28.00%	
		Perennial Ryegrass		
		AberEcho HSG Tetraploid	27.00%	
		Intermediate Ryegrass		
		Phleum pratense	Titan Timothy	10.00%
		Chicorium intybus	Six Points Chicory	5.00%
		Trifolium repens	Winter White Clover	2.00%


**Great Gains** High Sugar Grass pastures allow farmers to work with nature to improve the health and yield of their livestock, pastures and farming operations. This proven formula is the preferred choice of progressive farmers throughout the Northwest, Midwest, Northeastern and Mid Atlantic regions, including sustainable and organic farmers.

 <b>Sucra Seed Pasture Sweetner</b> \$2.95 per lb. Seed Rate 1.25 lb per acre	Lolium perenne	AberDart HSG	30.00%
	Lolium perenne	Perennial Ryegrass	
		AberAvon HSG	30.00%
		Perennial Ryegrass	
		Lolium multiflorum	AberEcho HSG Tetraploid
		Intermediate Ryegrass	
	Lolium multiflorum	Bandito Intermediate Ryegrass	10.00%

**Pasture Sweetner** is a concentrated mix of High Sugar Grass varieties for use in overseeding existing pastures.

 <b>Sucra Seed Sweet Silage</b> \$2.45 per lb. Seed Rate 1.25 lb per acre	Lolium multiflorum	AberEcho HSG Tetraploid	50.00%
	Lolium perenne	Intermediate Ryegrass	
		AberDart HSG	20.00%
		Perennial Ryegrass	
		Lolium perenne	AberAvon HSG
		Perennial Ryegrass	
	Trifolium Pratense	Medium Red Clover	10.00%

The **Sweet Silage** mix combines three varieties of High Sugar Grasses, as well as red clover, to create a silage mix that is designed to enhance performance and reduce the overall cost of silage production, while increasing the environmental benefits compared with traditional silage mixes of either alfalfa or red clover.





 <b>Sucra Seed Sweet Spot</b> \$3.95 per lb. Seed Rate 1 lb per acre	Lolium perenne	AberDart HSG	33.00%	
	Lolium perenne	Perennial Ryegrass		
		AberAvon HSG	33.00%	
		Perennial Ryegrass		
		Trifolium pratense	Dynamite Medium	11.00%
			Red Clover	
		Trifolium repens	Winter White Clover	11.00%
		Brassica rapa	Purple Top Turnips	6.00%
	Chicorium intybus	Six Points Chicory	6.00%	

**Sweet Spot** has hunters and wildlife managers across the US creating high-nutrition food plots that deer simply cannot resist. Sweet Spot mixes feature High Sugar Grasses. These unique perennial ryegrasses can produce bigger racks and as much as 20% more body mass. Sweet Spot is a perennial wildlife mix that establishes quickly, winters well and creates fool-proof food plots year after year. Sweet Spot mixes are more effective on a deer's complex digestive system, which can't process proteins without carbohydrates (sugars). Other plot mixes are packed with proteins, but don't deliver the sugars deer need to process that protein and grow. Sweet Spot is high in both protein and carbohydrate content so deer get optimum nutrition.

Mix Name	Botanical Name	Common Name	Mix Composition	Mix Name	Botanical Name	Common Name	Mix Composition
 <b>UPLAND COVER MIX</b> \$9.95 per lb. Seed Rate 1 lb per acre 	Agropyron intermedium	Intermediate Wheatgrass	20.00%	 <b>Wetland FOOD PLOT</b> \$26.95 per lb. Seed Rate 1.5 lb per acre 	Fagopyrum esculentum	Buckwheat	35.00%
	Leymus cinereus	Great Basin Wildrye	20.00%		Echinochloa esculenta	Japanese Millet	15.00%
	Agropyron spicatum	Anatone Bluebunch Wheatgrass	20.00%		Sparganium eurycarpum	Common Bur Reed	12.00%
	Festuca idahoensis	Idaho Fescue	12.00%		Polygonum amphibium L.	Water Smartweed	10.00%
	Atriplex canescens	Four Wing Saltbrush	10.00%		Glycera occidentalis	Western Mannagrass	10.00%
	Bromus biebersteinii	Meadow Brome	10.00%		Carex obnupta	Slough Sedge	6.00%
	Trifolium repens var ladino	Jumbo Ladino Clover	4.00%		Sagittaria latifolia	Arrowhead Duck Potato	4.00%
	Medicago sativa var ladak	Ladak Alfalfa	2.50%		Trifolium repens var ladino	Jumbo Ladino Clover	3.00%
	Chrysothamnus viscidiflorus	Yellow Rabbitbrush	1.50%		Alisma plantago aquatica	Water Plantain	3.00%
					Asclepias incarnata	Swamp Milkweed	2.00%

**Upland Cover Mix** is designed to provide an natural habitat cover mixture for upland game birds. Providing nesting material and cover from predators. Upland Cover Mix will enhance the habitat for all game birds and provide the home they need to mortality and encourage nesting.

**Wetland Food Plot Mix** is designed to provide a varied mixture of annuals that provide superior food for all waterfowl. This mixture needs to be over seeded every year to provide the optimum food value for game birds.

 <b>Upland FOOD PLOT</b> \$2.85 per lb. Seed Rate 5.25 lbs per acre 	Hordeum vulgare	Poco Barley	30.00%	 <b>Wetland COVER</b> \$24.95 per lb. Seed Rate 1 lb per acre 	Horedum branchyantherum	Meadow Barley	45.00%
	Helianthus annus	Black Peredovik Sunflowers	20.00%		Elymus glaucus	Blue Wildrye	20.00%
	Pennisetum glaucum	White Proso Millet	10.00%		Glycera occidentalis	Western Mannagrass	12.00%
	Sanguisorba minor	Small Burnett	10.00%		Lupinus albaculis	Sickle Keeled Lupine	5.00%
	Onobrychis viciaefolia	Sainfoin	10.00%		Alopecurus geniculatis	Water Foxtail	5.00%
	Sorghum sudanese hybred	Sorghum Sudan Hybred	10.00%		Beckmannia syzigachne	American Sloughgrass	5.00%
	Agropyron spicatum	Witmar Bluebunch Wheatgrass	5.00%		Deschampsia caespitosa	Tufted Hairgrass	3.00%
	Medicago sativa	Ladak Alfalfa	3.00%		Calamagrostis canadaensis	Bluejoint Reedgrass	2.50%
	Melilotus officinalis	Yellow Blossom Sweet Clover	2.00%		Scirpus actus	Hardstem Bulrush	1.00%
					Carex obnupta	Slough Sedge	1.00%
			Typhia latifolia	Cattails	0.50%		

**Upland Food Plot Mix** is designed to provide a varied mixture of annuals that provide superior food for the upland game birds. This mixture needs to be replanted every year to provide the optimum food value for game birds.

**Wetland Cover** is designed to provide natural habitat cover mixture for waterfowl. Providing nesting material and cover from predators. Wetland Cover mix will enhance the habitat for all game birds and provide the home they need to improve mortality and encourage nesting. Wetland Cover is a Native mixture that will enhance any wetland area.

## WILDFLOWER MIXES

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Sunmark Wildflower mixtures are formulated on the basis of climatic conditions (rainfall, temperature range, humidity) and elevation. All mixtures contain 16 to 22 species. Annuals have been included to establish cover quickly and to give color the first year; some may produce new plants the following year (the biennials may also reseed). Perennial plants live for more than two years and flower from the second year onward. All species require full or partial sun, with the exception of those in the Shade Mixture. Sunmark mixtures are blended to give the widest possible range of colors and periods of bloom. Mixtures may vary occasionally from the indicated listing based on availability of individual species.



**Bird & Butterfly Mixture****\$40.00 per lb.**

NEW! This choice mixture provides seeds and nectar to songbirds, hummingbirds and butterflies.

Planting Rate acre	10-20 lbs.
Planting Rate	.5 lbs/1000 sq. ft.

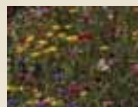


Common Name: Showy Milkweed • Cornflower, Dwarf • Wallflower • Godetia • Lance-Leaved Coreopsis • Dwarf Red • Plains Coreopsis • Larkspur • Purple Coneflower • California Poppy • Perennial Gaillardia • Annual Gaillardia • Candytuft • Gayfeather • Blue Flax • Sweet Alyssum • Perennial Lupine • Lemon Mint • Dwarf Red Coneflower • Black-Eyed Susan • Scarlet Sage

**Brilliant Annuals****\$36.00 per lb.**

This mixture is useful for reseeding purposes where an ongoing annual display is important, or for temporary wildflower plantings.

Planting Rate acre	5-10 lbs.
Planting Rate	.5 lb./1000 sq. ft.



Dwarf Godetia • Clarkia • Dwarf Plains Coreopsis • Chinese Forget-Me-Not • Rocket Larkspur • African Daisy • California Poppy • Bird's Eyes • Candytuft • Spurred SnapUragon • Sweet Alyssum • Texas Bluebonnet • Five-Spot • Baby Blue-Eyes • Corn Poppy • Dwarf Catchfly

**Clubhouse/Gulf Course****\$34.00 per lb.**

This annual mixture provides an ever changing rainbow of colors throughout the season. It is suitable for areas near trees, greens, lakes or around the clubhouse.

Planting Rate acre	6-12 lbs.
Planting Rate	.5 lb./1000 sq. ft.



Dwarf Godetia • Clarkia • Dwarf Plains Coreopsis • Chinese Forget-Me-Not • Rocket Larkspur • African Daisy • California Poppy • Bird's Eyes • Candytuft • Spurred SnapUragon • Sweet Alyssum • Texas Bluebonnet • Five-Spot • Baby Blue-Eyes • Corn Poppy • Dwarf Catchfly

**Cool Breeze****\$43.10 per lb.**

All Flower blooms are in the white to blue color range including various shades of purple and lavender.

Planting Rate/acre	15-30 lbs.
Planting Rate	.5 lb./1000 sq. ft.



White Yarrow • Polka Dot Mix • Dwarf Godetia • Forget-Me-Not • Sweet William Pinks • Baby's Breath • Dwarf Candytuft • Spurred Snapdragon • Blue Flax • Sweet Alyssum • Dwarf Lupine • Five-Spot • Baby Blue Eyes • Dwarf Catchfly

**Drylands****\$36.00 per lb.**

(10-30 inches rainfall/year)

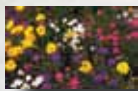
Planting Rate acre	6-12 lbs.
Planting Rate	.5 lb./1000 sq. ft.



White Yarrow • Desert Marigold • Dwarf Cornflower • Plains Coreopsis • African Daisy • California Poppy • Perennial Gaillardia • Annual Gaillardia • Baby's Breath • Tidy-Tips • Spurred SnapDragon • Blue Flax • Sweet Alyssum • Blazing Star • Corn Poppy • Penstemon • California Bluebell • Prairie Coneflower

**Gulf Coast/ Caribbean Mix****\$35.00 per lb.**

Planting Rate/acre	10-20 lbs.
Planting Rate	.5 lb./1000 sq. ft.



Dwarf Cornflower • Wallflower • Dwf. Lance-Lvd. Coreopsis • Cosmos, Dwarf • Sulphur Cosmos • African Daisy • Annual Gaillardia • Annual Baby's Breath • Gayfeather • Spurred Snapdragon • Scarlet Flax • Blue Flax • Sweet Alyssum • Four-O'Clock • Lemon Mint • Black-Eyed Susan • Catchfly • Black-Eyed Susan

**Knee High / Low Profile****\$28.00 per lb.**

This mix is less than 24 inches high and provides a neater appearance than taller mixes. Good for residential or commercial landscaping where height is a factor.

Planting Rate acre	7-14 lbs.
Planting Rate	.5 lb/1000 sq. ft.



Dwarf Cornflower • Siberian Wallflower • Dwarf Godetia • Lance-Leaved Coreopsis • Dwarf Plains Coreopsis • Chinese Forget-Me-Not • Rocket Larkspur • Sweet William Pinks • African Daisy • California Poppy • Perennial Gaillardia • Annual Baby's Breath • Candytuft • Scarlet Flax • Blue Flax • Sweet Alyssum • Corn Poppy • Prairie Coneflower • Black-Eyed Susan • Catchfly • Moss Verbena

**Low-Growing****\$35.00 per lb.**

This mixture is less than 16 inches high and provides a manicured appearance which is ideal for residential or commercial landscaping where height is a factor.

Planting Rate/acre	5-10 lbs.
Planting Rate	.5 lb./1000 sq. ft.



Tussock Bellflower • Dwarf Cornflower • Siberian Wallflower • Dwarf Godetia • Dwarf Lance-Leaved Coreopsis • Dwarf Plains Coreopsis • Cottage Pinks • African Daisy • California Poppy • Candytuft • Spurred Snapdragon • Sweet Alyssum • Forget-Me-Not • Dwarf Evening Primrose • Iceland Poppy • California Bluebell • Dwarf Catchfly • Moss Verbena • Johnny Jump-Up

**Midwest Impressions****\$35.00 per lb.**

U.S.: Illinois, Indiana, Iowa, eastern Kansas, Kentucky, Michigan, Minnesota, Missouri, eastern Nebraska, Ohio, Wisconsin. Canada: southern Manitoba, Ontario.

Planting Rate/acre	6-12 lbs.
Planting Rate	.5 lb./1000 sq. ft.



New England Aster • Dwarf Cornflower • Shasta Daisy • Lance-Leaved Coreopsis • Plains Coreopsis • Purple Coneflower • Annual Gaillardia • Ox-Eye Sunflower • Thickspike Gayfeather • Scarlet Flax • Prairie Aster • Dwarf Evening Primrose • Corn Poppy • Purple Prairie Clover • Prairie Coneflower • Grey-Headed Coneflower • Clasping Coneflower • Black-Eyed Susan

**Moist Mixture****\$31.00 per lb.**

(Over 30 inches rainfall/year)

Planting Rate/acre"	10-20 lbs.
Planting Rate	.5 lb./1000 sq. ft.



Columbine • Wallflower • Shasta Daisy • Clarkia • Lance-Leaved Coreopsis • Rocket Larkspur • Purple Coneflower • Candytuft • Tree Mallow • Gayfeather • Scarlet Flax • Lemon Mint • Forget-Me-Not • Baby Blue-Eyes • Black-Eyed Susan • Johnny Jump-Up

**Mountain Meadow Mix****\$35.00 per lb.**

Above 7000 ft: Arizona, southern California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming. All elevations: Alaska, northern Alberta, eastern British Columbia, northern Manitoba, N.W. Territories, northern Saskatchewan, Yukon.

Planting Rate/acre	6-12 lbs.
Planting Rate	.5 lb./1000 sq. ft.



Blue Columbine • Bellflower • Dwarf Cornflower • Wallflower • Shasta Daisy • Dwarf Godetia • Rocket Larkspur • Fleabane Daisy • California Poppy • Perennial Gaillardia • Annual Baby's Breath • Blue Flax • Forget-Me-Not • Palmer Penstemon • Penstemon • Black-Eyed Susan • Catchfly • Showy Goldeneye

**Native Pacific Northwest Mix \$55.00 per lb.**



This mixture is native to the Pacific Northwest and is commonly found inland as far as Central Washington and Oregon. This mix is formulated for bloom period from spring to fall.

Planting Rate/acre 25-30 lbs.  
Planting Rate .5 lb./1000 sq.ft.

Wallflower • Dwarf Godetia • Clarkia • California Poppy • Globe Gilia • Bird's Eyes • Tidy-Tips • Mountain Phlox • Scarlet Flax • Blue Flax • Sweet Alyssum • Yellow Lupine • Many Leaved Lupine • Five-Spot • Baby Blue-Eyes • Corn Poppy • Blue-Eyed Grass

**Native Perennial Mix \$64.00 per lb.**



NEW! This mixture provides a long-lasting, perennial planting filled with a colorful assortment of American natives. For use across the U.S. except southern Florida and extreme southern Texas (see Gulf Coast Mix for these areas).

If weed control is needed the first year, mow every 3-4 weeks or as often as necessary.

Planting Rate/acre 7-14 lbs.  
Planting Rate .5 lb./1000 sq.ft.

Blue Columbine • Eastern Columbine • Butterfly Milkweed • New England Aster • Lance-Leaved Coreopsis • Purple Coneflower • Perennial Gaillardia • Thickspike Gayfeather • Gayfeather • Blue Flax • Perennial Lupine • Dwarf Evening Primrose • Rocky Mtn. Penstemon • Mexican Hat • Prairie Coneflower • Grey-Headed Coneflower • Black-Eyed Susan

**New England Splendor \$35.00 per lb.**



U.S.: Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, Washington DC, West Virginia. Canada: Maritime Provinces, Newfoundland, Quebec.

Planting Rate/acre 5-10 lbs.  
Planting Rate .5 lb./1000 sq.ft.

New England Aster • Dwarf Cornflower • Wallflower • Shasta Daisy • Lance-Leaved Coreopsis • Sweet William Pinks • Foxglove • Purple Coneflower • Annual Baby's Breath • Gayfeather • Spurred Snapdragon • Scarlet Flax • Lupine • Dwarf Evening Primrose • Corn Poppy • Smooth Penstemon • Black-Eyed Susan • Catchfly

**Pacific Northwest Mix \$25.00 per lb.**



(Below 7,000-8,000 ft.) U.S.: northern California, western Oregon, western Washington. Canada: coast of British Columbia.

Planting Rate/acre 8-16 lbs.  
Planting Rate .5 lb./1000 sq.ft.

Wallflower • Shasta Daisy • Dwarf Godetia • Clarkia • Chinese Houses • Lance-Leaved Coreopsis • California Poppy • Globe Gilia • Bird's Eyes • Tidy-Tips • Mountain Phlox • Scarlet Flax • Blue Flax • Sweet Alyssum • Yellow Lupine • Russell Lupine • Five-Spot • Baby Blue-Eyes • Corn Poppy • Black-Eyed Susan • Blue-Eyed Grass

**Pioneer's Dream \$35.00 per lb.**



U.S.: Colorado, Idaho, western Kansas, Montana, western Nebraska, northern Nevada, North Dakota, eastern Oregon, South Dakota, Utah, eastern Washington, Wyoming. Canada: southern Alberta, southern Saskatchewan.

Planting Rate/acre 8-16 lbs.  
Planting Rate .5 lb./1000 sq.ft.

Dwarf Cornflower • Deertorn clarkia • Clarkia • Plains Coreopsis • California Poppy • Perennial Gaillardia • Annual Gaillardia • Globe Gilia • Candytuft • Blue Flax • Perennial Lupine • Prairie Aster • Dwarf Evening Primrose • Pale Evening Primrose • Corn Poppy • Palmer Penstemon • Penstemon • Prairie Coneflower • Greenthread • Showy Goldeneye

**Rainbow Meadow Mix \$35.00 per lb.**



This spectacular annual mixture blooms in a wide variety of flower colors, shapes and sizes. Plants are 6-24 inches high.

Planting Rate/acre 7 lbs.  
Planting Rate .5 lb./1000 sq. ft.

Godetia • Chinese Forget-Me-Not • California Poppy • Rocket Candytuft • Sweet Alyssum • Dwarf Lupine • Love-in-a-Mist • Corn Poppy • Black-Eyed Susan • French Marigolde • Viscaria • Mexican Zinnia

**Shade \$36.00 per lb.**



This mixture requires strong, filtered sunlight or 1-4 hours of direct sun per day. These plants will not prosper in dense shade.

Planting Rate/acre 7-14 lbs.  
Planting Rate .5 lb./1000 sq.ft.

Columbine • Shasta Daisy • Clarkia • Lance-Leaved Coreopsis • Chinese Forget-Me-Not • Rocket Larkspur • Sweet William Pinks • Purple Coneflower • Annual Baby's Breath • Annual Candytuft • Spurred Snapdragon • Monkeyflower • Forget-Me-Not • Baby Blue-Eyes • Corn Poppy • Johnny Jump-Up

**Short Grass Prairie Mix \$76.00 per lb.**



The short-grass prairie extends east from the Rocky Mountains and south from Montana through the Nebraska panhandle and southeastern Wyoming into the high plains of Oklahoma, New Mexico, and Texas. The short-grass prairie landscape was one of relatively treeless stream bottoms and uplands dominated by blue grama and buffalo grass, two warm-season grasses that flourish in this region. In the mid-1800's the numbers of individuals of native mammal species--bison, prairie dogs, pronghorn, elk, grizzly bears, and gray wolves--rivaled or exceeded those now in the African Serengeti. This mix of short prairie flowers and grasses is ideal for re-creating a low-growing prairie. Best for moderate to drier sites. Plant in late spring or early summer. High ratio of wildflower to grass seed for a brilliant display of color.

Planting Rate/acre 10-15 lbs.  
Planting Rate .5 lb./1000 sq.ft.

Lavender Hyssop • Butterfly Milkweed • White Upland Aster • Lance-leafed Coreopsis • Plains Coreopsis • Narrow-Leaf Purple Coneflower • Annual Gaillardia • Prairie Aster • Dwarf Evening Primrose • Large Penstemon • Purple • Prairie Clover • Prairie Coneflower • Black-eyed Susan • Horary Vervain • Sideoats Grama • Blue Grama • Prairie Junegrass • Sand Dropseed

**Southeastern Pride \$35.00 per lb.**



Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, eastern Oklahoma, Tennessee, eastern Texas, South Carolina. (For southern Florida, the Gulf Coast Caribbean Mixture may be appropriate.)

Planting Rate/acre 10-20 lbs.  
Planting Rate .5 lb./1000 sq.ft.

New England Aster • Lance-Leaved Coreopsis • Plains Coreopsis • Sulphur Cosmos • Purple Coneflower • Annual Gaillardia • Annual Baby's Breath • Gilia • Tree Mallow • Gayfeather • Scarlet Flax • Perennial Lupine • Four-O'Clock • Lemon Mint • Corn Poppy • Annual Phlox • Claspng Coneflower • Black-Eyed Susan • Scarlet Sage • Moss Verbena

**Southwest Blooms**



**\$35.00 per lb.**  
 (Below 7,000-8,000 ft.) Arizona, southern California, southern Nevada, New Mexico  
 Planting Rate/acre 6-12 lbs.  
 Planting Rate .5 lb./1000 sq.ft.

Desert Marigold • Clarkia • African Daisy • California Poppy • Annual Gaillardia • Bird's Eyes • Tidy-Tips • Mountain Phlox • Blue Flax • Sweet Alyssum • Arroyo Lupine • Blazing Star • Five-Spot • Pale Evening Primrose • Corn Poppy • Palmer Penstemon • Penstemon • California Bluebell • Prairie Coneflower • Desert Globemallow

**Sunburst Ground Cover Mix \$65.00 per lb.**



Varieties in this annual mixture have a spreading or mounding growth form which creates an even 12 inch tall carpet of brilliant flowers in sunny hues.  
 Planting Rate per Acre 5 lbs.  
 Planting Rate .5 lb./1000 sq. ft.

Dwarf Calendula • California Poppy • Rocket Candytuft • Dwarf Sweet Alyssum • Wild Petunia • African Marigold • French Marigold • Creeping Zinnia

**Super-Short**



**\$76.00 per lb.**  
 This mixture is less than 10 inches high and is useful where a colorful, carpet-like appearance is desired.  
 Planting Rate/acre 5-10 lbs.  
 Planting Rate for 1/2 acre or less .5 lb./1000 sq.ft.

Basket of Gold • White Rockcress • Purple Rockcress • English Daisy • Snow-in-Summer • Yellow Daisy • Creeping Daisy • Maiden Pinks • Dwarf California Poppy • Perennial Candytuft • Goldfields • Dwarf Sweet Alyssum • Virginia Stock • Five-Spot • Baby Blue-Eyes • California Bluebell • Creeping Zinnia • Soapwort • Nodding Catchfly • Johnny Jump-Up

**Tall Grass Prairie Mix**



**\$70.00 per lb.**  
 Between the Missouri River and the Rocky Mountains lies the grassy expanse once dismissed as the Great American Desert. Early 19th century expansion advocates urged settlers to skip the interior and proceed directly to the far west. A land official wrote in 1868 that the plains were "an obstacle to the progress of the nation's growth...in not yielding that sustenance for increasing population." When homesteader settled in, they discovered what the native Plains tribes had known for centuries: that the "desert" was a mosaic of different regions, each with its own climate and vegetation, each with its own character. Tall Grass Prairie Mix is a historical representation to what was once a great and flowing Prairie. A mix of flowers and grasses from the Tallgrass prairie region. Best for moderate to moister sites. Plant in late spring or early summer. Very high wildflower to grass seed ratio for a showy display of brilliant colors.

Planting Rate/acre 20-25 lbs.  
 Planting Rate .5 lb./1000 sq.ft.

Smooth Aster • New England Aster • Lance-Leaved Coreopsis • Illinois Bundleflower • Pale Purple Coneflower • Purple Coneflower • Rattlesnake Master • Ox-Eye Sunflower • Thichspike Gayfeather • Gayfeather • Perennial Lupine • Bergamot • Smooth Penstemon • Grey-Headed Coneflower • Black-Eyed Susan • Rigid Goldenrod • Big Bluestem • Switchgrass • Little Bluestem • Indiangrass

**Texas/Oklahoma Mix**



**\$35.00 per lb.**  
 (For southern Texas, the Gulf Coast Caribbean Mixture may be appropriate.)  
 Planting Rate/acre 9-18 lbs.  
 Planting Rate .5 lb./1000 sq.ft.

Dwarf Cornflower • Lance-Leaved Coreopsis • Plains Coreopsis • Sulphur Cosmos • Purple Coneflower • Annual Gaillardia • Baby's Breath • Candytuft • Texas Bluebonnet • Lemon Mint • Dwarf Evening Primrose • Showy Evening • Primrose • Corn Poppy • Purple Prairie Clover • Annual Phlox • Prairie Coneflower • Claspng Coneflower • Black • Eyed Susan • Scarlet Sage • Blue Sage

**Xeriscape Mix: Western USA \$46.00 per lb.**



Above 7,000 ft. This mix of native wildflowers is for areas in the western U.S. and western Canada where water conservation is desired.  
 Planting Rate/acre 8-16 lbs.  
 Planting Rate .5 lb./1000 sq. ft.

Dessert Marigold • California Poppy • Perennial Gaillardis • Bird's Eyes • Tidy-Tips • Blue Flax • Arroyo Lupine • Prairie Aster • Blazing Star • Pale Evening Primrose • Palmer Penstemon • Rocky Mountain Penstemon • Prairie Coneflower • Goosberryleaf Globemallow • Greenthread





### Custom Mixtures

In certain cases, a custom blend will be most suitable for your project. We can blend a custom native, turf, erosion control or wildflower mixture according to your specifications. Such mixtures may be based on application, height, climatic conditions, blooming times or other considerations. Seed size, aggressiveness and cost determine proportions of species. Our qualified staff will be glad to assist you in determining your needs.

### Technical Advice

We encourage you to contact us with the specifications of your project. We will be glad to assist you in selecting the mixture best suited to your needs. Our service includes free telephone consultation on planting times, soil preparation and seeding techniques.

The following recommendations provide type and purpose information associated with each seed mix, and their location within the catalog. In general, Sunmark Seeds International recommends the use of native species wherever possible; however, in some instances native species may not be appropriate (i.e., you want mowed turf) or they may not perform as well in some applications.

**Note:** Along with the mixes above, you might want a custom mix for your project. Please contact Sunmark Seeds International, Inc. at (503)241-7333 for consultation on your project. We can provide mixture composition based on our SPF "Seeds per Square Foot" using the species you have selected.

### Site Preparation

Proper site preparation is important for prompt germination of seed and healthy growth of seedlings. Best results will be obtained by planting on cleared ground. Remove existing vegetation to avoid competition from other plants by pulling, tilling under, spraying with a general herbicide, or a combination of these methods. The success of these methods will depend on the size of the area, and the type and density of the vegetation. Loosen soil by scraping, tilling or scarifying. Tilling should be utilized only when soil is very compacted and further weed control measures can be taken. See "Weed Control" on the following page for specifics.

### Seed Application

Method of application depends on the size of the area and the terrain. On small areas, broadcast seeds evenly either by hand or by use of a drop or cyclone spreader. It is helpful to mix a carrier such as clean, dry sand with the seed; sand adds volume and aids in even distribution. We recommend using a ratio of 1 or 2 parts sand to 1 part seed. Rake in lightly or drag the area lightly with a piece of chain link fence to mix the seed into the surface of the soil. For seeding large areas, i.e., over one acre, specially designed drills are most effective. Drill to a maximum of ¼ inch and firm soil with a cultipacker; this maximizes seed/soil contact. Hydroseeders are also effective, especially for steep slopes, rocky terrain and other areas where conditions make it impractical for driving equipment.

Hydroseeding is the application of a slurry of seed and water to soil. The slurry may also contain mulch (hydromulching), tackifier, and fertilizer. Mulches are made of weed fiber, paper, or excelsior, and their purpose is to hold seeds in place, help retain moisture and provide protection from erosion. Mulches are usually dyed green as to visually aid in even distribution. Rates of application for most mulches are between 1500 and 2300 pounds per acre. In general, hydroseeding/hydromulching is most successful in moist climates or in irrigated areas.

Most authorities agree that germination is better when seed is applied first with 5-10% of the mulching fiber – the balance of the mulch being applied separately as a second step. This approach assures optimal seed/soil contact; otherwise, many seeds are wasted because they become suspended in the fiber.



### Moisture

All seeds, including wildflowers, need ample moisture to germinate and to develop into healthy seedlings. Best results will be obtained by soaking the planted areas thoroughly and maintaining consistent moisture for 4-6 weeks – then gradually reducing waterings. In non-irrigated situations, plant in the spring or before periods of anticipated rainfall. After seedlings are established, watering may be reduced depending on the climate and rainfall. In arid climates or during drought conditions, up to ½ inch of supplemental water per week may be required to maintain an optimal display. If weeds are present, remember that they benefit from moisture as much as the wildflowers, and may dominate overwatered areas.

### Fertilization

Many species benefit from some fertilization if the soil does not have adequate nutrients. Some species do fine in poor soils, while others require a more fertile environment. We recommend that a soil test be performed when soil quality is unknown. If the soil needs improvement, use a low nitrogen fertilizer with a 5-10-10 ratio or add organic matter such as weed-free straw or grass clippings, well-rotted compost, peat moss, or leaf mold. In addition to adding nutrients, organic materials enhance soil texture and encourage beneficial micro-organisms. Avoid over fertilizing which may promote weed growth and lush foliage rather than flowers.

### Weed Control

Weed control is the biggest problem facing specie establishment and one that has no easy solution. Weed seeds are present in many situations and lie dormant, but viable, for long periods of time. A weedy area to be seeded will have a large reservoir of weed seeds in the soil, ready to germinate when conditions are favorable. In most cases, it is advisable to consider weed control in two phases – as part of site preparation prior to planting and as an important component of the post-germination maintenance program. Before planting, remove existing weeds by pulling, tilling under, applying a general herbicide such as *Roundup* or *KLEENUP*, or by a combination of these methods. For additional weed control after site preparation, a soil fumigant may be used, or the area may be irrigated to encourage weed growth and then sprayed with a general herbicide.

In very weedy areas, the following method is suggested: (1) Till soil or spray vegetation with *Roundup* or *KLEENUP*. When using an herbicide, allow vegetation to die, then rake out the dead debris. If perennial weeds such as bindweed are present, using an herbicide is more effective than tilling. (2) Irrigate to encourage germination of weed seeds near the surface; most seeds will germinate within two weeks if consistent moisture is available. Do not till the soil again because this will bring even more weed seeds up to the surface. (3) Spray any new growth with *Roundup* or *KLEENUP*. (4) After raking out dead vegetation, allow soil to recover for 3-4 weeks before planting with wildflowers. From our experience, a recovery period of this duration is advisable because extensive use of these herbicides may cause germination and growth of seedlings to be delayed.

# INDIVIDUAL SEED SPECIES

INDIVIDUAL SEED SPECIES



SPECIES Botanical Name	Common Name	Applications	Price per Pound
Agropyron cristatum	Wheatgrass, Crested		\$3.50
Agropyron desertorum	Wheatgrass, Standard Crested		\$3.50
Agropyron elongatum	Wheatgrass, Tall		\$4.50
Agropyron intermedium	Wheatgrass, Intermediate		\$3.50
Agropyron riparium	Wheatgrass, Streambank		\$4.00
Agropyron sibericum	Wheatgrass, Siberian		\$3.70
Agropyron spicatum x repens	Wheatgrass, Newhy hybrid		\$22.00
Agropyron trichophorum	Wheatgrass, Pubescent		\$2.40
Agrostis alba / gigantea	Redtop		\$11.00
Agrostis exarata	Bentgrass, Spike		\$38.00
Agrostis pallens	Thingrass		\$26.80
Agrostis stolonifera	Creeping Bengrass		\$8.00
Alisma subcordatum	Water Plantain		\$33.00
Alopecurus arundinaceus	Creeping Foxtail		\$18.00
Alopecurus geniculatus	Water Foxtail		\$44.00
Alopecurus pratensis	Meadow Foxtail		\$13.40
Andropogon gerardi	Bluestem, Big		\$21.60
Andropogon halli	Bluestem, Sand		\$40.00
Arctagrostis pratensis	Polargrass		\$90.00
Aristida purpurea	Purple three-awn		\$10.00
Astragalus canadensis	Canadian Milkvetch		\$40.00
Beckmannia syzigachne	American Sloughgrass		\$25.00
Blepharoneuron tricholepis	Dropseed, Pine		\$200.00
Bothriochloa ischaemum	Bluestem, Yellow		\$32.00
Bouteloua curtipendula	Grama, Sideoats		\$21.60
Bouteloua gracilis	Grama, Blue		\$18.00
Bromus biehersteinii	Brome, Meadow		\$3.50
Bromus carinatus	Brome, California		\$5.00
Bromus inermis	Brome, Smooth		\$3.00
Bromus marginatus	Brome, Mountain		\$6.00
Bromus maritimus	Brome, Seashore		\$14.00
Bromus mollis	Brome, Soft chess or Blando		\$5.60
Bromus rubens	Brome, Red		\$7.00
Bromus stichensis	Brome, Sitka		\$13.80
Bromus vulgaris	Brome, Columbia		\$35.50
Buchloe dactyloides	Buffalograss		\$25.00
Calamagrostis canadensis	Reedgrass, Bluejoint		\$290.00
Calamagrostis nutkaensis	Reedgrass, Pacific		\$170.00
Calamagrostis rubescens	Pine Grass		\$170.00
Calamovilfa longifolia	Prairie sandreed		\$24.00
Carex amplifolia	Sedge, Big Leaf		\$140.00
Carex angustata	Sedge, Slender		\$150.00
Carex aperta	Sedge, Columbia		\$146.00
Carex aquatilis	Sedge, Water		\$385.00
Carex arcta	Sedge, Northern Clustered		\$19.25 oz.
Carex athrostachya	Sedge, Slenderbeak		\$180.00
Carex barbarae	Sedge, White Root		\$190.00
Carex bebbii	Sedge, Bebb's		\$160.00
Carex comosa	Sedge, Cosmos		\$58.00
Carex crinita	Sedge, Fringed		\$58.00
Carex cusickii	Sedge, Cusick's		\$58.00

NATIVE GRASS SEED

Dry  
 Moist  
 Wet  
 Green Roof

SPECIES Botanical Name	Common Name	Applications	Price per Pound	SPECIES Botanical Name	Common Name	Applications	Price per Pound
Carex densa	Sedge, Dense-Headed		\$24.50 oz.	Elymus mollis (Vancouverensis)	American Dunegrass		\$18.90 oz.
Carex deweyana	Sedge, Dewey's (Packet)		\$150.00	Elymus riparius	Wildrye, Riverbank		\$12.00
Carex grayi	Sedge, Gray's		\$42.00 oz.	Elymus trachycaulus	Wheatgrass, Slender		\$4.50
Carex hoodii	Sedge, Hood's		\$154.00	Elymus triticoides	Wildrye, Creeping		\$18.00
Carex hystericina	Sedge, Porcupine		\$176.00	Elymus wawawaiensis (Secar)	Snake River Wheatgrass		\$7.00
Carex intumescens	Sedge, Bladder		\$31.50 oz.	Eragrostis curvula	Lovegrass, Weeping		\$16.00
Carex laniginosa	Sedge, Wool		\$31.50 oz.	Eragrostis trichodes	Lovegrass, Sand		\$22.00
Carex lenticularis	Sedge, Lens		\$70.00 oz.	Festuca arizonica	Fescue, Arizona		\$25.20
Carex leporina	Sedge, Hare		\$200.00	Festuca brachyphylla	Fescue, Alpine		\$32.40
Carex lupuline	Sedge, Hop		\$150.00	Festuca californica	Fescue, California		\$170.00
Carex lyngbyei	Sedge, Lyngby's		\$22.75 oz.	Festuca idahoensis	Fescue, Idaho		\$9.50
Carex macrocephala	Sedge, Bigheaded		\$180.00	Festuca megalura	Fescue, Foxtail or Zorro		\$18.00
Carex microptera	Sedge, Small-Wing		\$168.00	Festuca occidentalis	Fescue, Western		\$17.00
Carex nebraskensis	Sedge, Nebraska		\$124.00	Festuca ovina var covar	Fescue, Covar Sheep		\$5.50
Carex obnupta	Sedge, Slough		\$155.00	Festuca ovina var glauca	Fescue, Blue		\$7.50
Carex pachystachya	Sedge, Thick Headed		\$148.00	Festuca ovina VNS	Fescue, Sheep		\$3.70
Carex pratensis	Sedge, Meadow		\$21.88 oz.	Festuca roemerii	Fescue, Roemer's		\$16.80
Carex retrorsa	Sedge, Knot Sheathed		\$134.00	Festuca rubra rubra	Fescue, Native Red		\$2.30
Carex rostrata	Sedge, Beaked		\$26.25 oz.	Festuca rubra rubra var molate	Fescue, Native Red var Molate		\$9.50
Carex scoparia	Sedge, Blunt Broom		\$160.00	Festuca saximontana	Fescue, Rocky Mountain		\$14.40
Carex scopolorum	Sedge, Rocky Mountain		\$70.00 oz.	Festuca scabrella	Fescue, Rough		\$19.70
Carex simulata	Sedge, Short Beaked		\$200.00	Festuca subuliflora	Fescue, Coast		\$20.00
Carex spectabilis	Sedge, Showy		\$170.00	Festuca thurberi	Fescue, Thurbers		\$100.00
Carex stipata	Sedge, Awl		\$130.00	Glyceria canadense	Rattlesnake Grass		\$130.00
Carex stricta	Sedge, Tussock		\$112.00 oz.	Glyceria elata	Mannagrass, Tall		\$149.00
Carex tumulicola	Sedge, Foothill		\$61.60 oz.	Glyceria grandis	Mannagrass, American		\$90.00
Carex unilateralis	Sedge, One-Sided		\$20.48 oz.	Glyceria melicaria	Mannagrass, Slender		\$170.00
Carex vesicaria	Sedge, Blister		\$128.00	Glyceria occidentalis	Mannagrass, Western		\$16.00
Carex vulpinoidea	Sedge, Fox		\$32.00	Hordeum brachyantherum	Barley, Meadow		\$16.00
Catabrosa aquatica	Grass, Brook		\$140.00	Hordeum californicum	Barley, California		\$190.00
Danthonia californica	Oatgrass, California		\$53.00	Hordeum depressum	Barley, Alkali		\$170.00
Danthonia intermedia	Oatgrass, Intermediate		\$70.00	Hordeum jubatum	Barley, Foxtail		\$39.38 oz.
Deschampsia caespitosa	Hairgrass, Tufted		\$11.00	Hydrophyllum occidentale	Western Waterleaf		\$28.88 oz.
Deschampsia caespitosa var artica	Hairgrass, Bering		\$15.40	Juncus balticus	Rush, Baltic		\$200.00
Deschampsia caespitosa var holciformis	Hairgrass, California		\$35.00	Juncus bolanderi	Rush, Bolander's		\$45.50 oz.
Deschampsia elongata	Hairgrass, Slender		\$9.00	Juncus bufonius	Rush, Toad		\$180.00
Distichlis spicata	Salt Grass		\$70.00	Juncus effusus	Rush, Soft		\$58.00
Distichlis stricta	Inland Saltgrass		\$60.00	Juncus ensifolius	Rush, Dagger Leaf		\$29.75 oz.
Eleocharis acicularis	Rush, Needle Spike		\$84.00 oz.	Juncus gerardii	Rush, Mud		\$100.00
Eleocharis ovata	Rush, Ovoid Spike		\$200.00	Juncus longistylis	Rush, Meadow		\$43.75 oz.
Eleocharis palustris	Rush, Creeping Spike		\$112.00	Juncus mertensianus	Rush, Merten		\$43.75 oz.
Eleocharis rostellata	Spikerush, Beaked		\$35.00	Juncus patens	Rush, Spreading		\$19.25 oz.
Elymus angustus	Wildrye, Altai		\$11.00	Juncus saximontanus	Rush, Rocky Mountain		\$43.75 oz.
Elymus canadensis	Wildrye, Canada		\$11.00	Juncus tenuis	Rush, Slender (Path)		\$170.00
Elymus cinereus	Wildrye, Great Basin		\$11.00	Juncus torreyi	Rush, Torrey's		\$42.00 oz.
Elymus elymoides	Bottlebrush Squirreltail		\$30.00	Koeleria macrantha (crispata)	Prairie Junegrass		\$30.00
Elymus giganteus	Wildrye, Mammoth		\$6.00	Leersia oryzoides	Rice Cutgrass		\$78.00
Elymus glaucus	Wildrye, Blue		\$12.00	Leymus cinereus	Wildrye, Basin Magnar		\$18.00
Elymus junceus	Wildrye, Russian		\$12.00	Luzula parviflora	Small-Flowered Woodrush		\$35.00
Elymus lanceolatus lanceolatus	Wheatgrass, Thickspike Critana		\$5.00	Melica californica	Oniongrass, California		\$96.00
Elymus lanceolatus psammophilus	Wheatgrass, Thickspike Sodar		\$5.00				

Dry  
 Moist  
 Green Roof

Dry  
 Moist  
 Green Roof

SPECIES				Price per	SPECIES			Price per
Botanical Name	Common Name	Applications		Pound	Botanical Name	Common Name	Applications	Pound
Melica imperfecta	Oniongrass, Coast Range			\$108.00	Scirpus robustus	Bulrush, Saltmarsh		\$80.00
Melica smithii	Oniongrass			\$60.00	Scirpus validus	Bulrush, Soft Stem		\$98.00
Mublenbergia microsperma	Littleseed Deergrass			\$56.00	Scolochloa festuacea	Whitetop		\$84.00 oz.
Mublenbergia wrightii	Spike Muhly			\$16.00	Setaria macrostachya	Plains Bristlebrush		\$12.00
Nucella lemonii	Lemon's Needlegrass			\$128.00	Sitanion jubatum	Big Squirreltail (WA Origin)		\$140.00
Onoclea sensibilis	Sensitive Fern			\$184.00	Sorghastrum nutans	Indiangrass		\$18.00
Oryzopsis hymenoides	Indian Ricegrass			\$12.00	Sparganium emersum	Bur Reed		\$56.00
Panicum antidotale	Blue Panicgrass			\$8.00	Sparganium eurycarpum	Giant Bur Reed		\$84.00
Panicum coloratum	Kleingrass			\$16.00	Spartina pectinata	Prairie Cordgrass		\$80.00
Panicum virgatum	Switchgrass			\$8.40	Sporobolus airoides	Alkali Sacaton		\$34.00
Pascopyrum smithii	Wheatgrass, Western Rosana			\$5.00	Sporobolus cryptandrus	Dropseed, Sand		\$13.40
Petalostemon candidum	Clover, White Prairie			\$90.00	Sporobolus giganteus	Dropseed, Giant		\$170.00
Petalostemon purpureum	Clover, Purple Prairie			\$20.00	Sporobolus heterolepis	Dropseed, Prairie		\$28.00 oz.
Phleum alpinum	Alpine Timothy			\$60.00	Stipa apartea	Porcupine Grass		\$39.38 oz.
Phragmites communis	Common Reed			\$11.00	Stipa columbiana	Needlegrass, Columbia		\$21.88 oz.
Plantago alisima	Water Plantain			\$28.00	Stipa comata	Needle and Thread		\$70.00
Plantago maritima	Seaside Plantain			\$140.00	Stipa lemmonii	Lemon Needlegrass		\$98.00
Pleuraphis jamesii	James' Galleta			\$56.00	Stipa pulchra	Needlegrass, Purple		\$108.00
Poa alpina	Bluegrass, Alpine			\$24.00	Stipa speciosa	Needlegrass, Desert		\$130.00
Poa ampla var shermans	Bluegrass, Big Sherman's			\$6.00	Stipa viridula	Needlegrass, Green		\$6.40
Poa canbyi	Bluegrass, Canby			\$7.00	Torreyochloa pauciflora	Weak Alkali Grass		\$151.00
Poa compressa	Bluegrass, Canada			\$5.50	Triglochin maritima	Seaside Arrowgrass		\$150.00
Poa fendlerinana	Mutton Grass			\$72.00	Trisetum spicatum	Spike Trisetum		\$80.00
Poa glauca	Bluegrass, Upland			\$110.00	Triticum aestivum x Elytrigia elongata	Regreen		\$6.00
Poa palustris	Bluegrass, Fowl			\$16.00	Typha latifolia	Cattails		\$96.00
Poa sandbergii	Bluegrass, Sandberg			\$8.00	Vulpia microstachys	Three Weeks Fescue		\$25.00
Poa scabrella/secunda	Bluegrass, Pine			\$18.50				
Polygonum amphibium L. var. stipulaceum	Water Smartweed			\$32.00				
Polygonum pensylvanicum	Pennsylvania Smartweed			\$56.00				
Pseudoroegneria spicata	Wheatgrass, Bluebunch			\$15.50				
Pseudoroegneria spicata	Wheatgrass, Bluebunch Anatone			\$9.00				
Pseudoroegneria spicata inerme	Wheatgrass, Beardless bluebunch Whitmar			\$21.60				
Pseudoroegneria spicata var Goldar	Wheatgrass, Bluebunch var Goldar			\$14.00				
Pseudoroegneria spicata var Secar	Wheatgrass, Bluebunch var Secar			\$7.00				
Puccinellia airoides	Alkali Grass, Nuttal			\$13.50				
Puccinellia distans	Alkali Grass			\$5.50				
Schedonorus pratensis	Fescue, Meadow			\$2.50				
Schizachyrium scoparium	Bluestem, Little			\$21.60				
Scirpus acutus	Bulrush, Hardstem			\$138.00				
Scirpus americanus	Bulrush, Three Square			\$21.88 oz.				
Scirpus atrovirens	Bulrush, Green			\$90.00				
Scirpus cyperinus	Bulrush, Wool			\$100.00				
Scirpus expansus	Bulrush, Wood			\$30.00				
Scirpus fluviatilis	Bulrush, River			\$160.00				
Scirpus lacustris (validus)	Bulrush, Softstem			\$98.00				
Scirpus maritima	Bulrush, Alkali			\$60.00				
Scirpus maritimus	Bulrush, Seacoast			\$30.00				
Scirpus microcarpus	Bulrush, Small Fruited			\$110.00				
Scirpus pallidus	Bulrush, Pale			\$120.00				
Scirpus polyphyllus	Bulrush, Many Leaved			\$140.00				
Scirpus pungens	Bulrush, Three Square			\$150.00				

Dry  
 Moist  
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 Green Roof

Dry  
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 Green Roof

## WILDFLOWER SEED

Sunmark Wildflower mixtures are formulated on the basis of climatic conditions (rainfall, temperature range, humidity) and elevation. All mixtures contain 16 to 22 species. Annuals have been included to establish cover quickly and to give color the first year; some may produce new plants the following year (the biennials may also reseed). Perennial plants live for more than two years and flower from the second year onward. All species require full or partial sun, with the exception of those in the Shade Mixture. Sunmark mixtures are blended to give the widest possible range of colors and periods of bloom. Mixtures may vary occasionally from the indicated listing based on availability of individual species.



SPECIES Botanical Name	Common Name	Applications	Price per Pound	SPECIES Botanical Name	Common Name	Applications	Price per Pound
Abronia latifolia	Yellow Sand Verbena		\$52.50 oz.	Aster oblongifolius	Aromatic Aster`		\$38.50 oz.
Achillea filipendulina	Gold Yarrow		\$144.00	Aster ptarmicoides	White Upland Aster		\$23.63 oz.
Achillea millefolium	White Yarrow		\$40.00	Aster puniceus	Swamp Aster		\$25.38 oz.
Achillea millefolium occidentalis/lanulosa	Western Yarrow		\$42.00	Aster subspicatus	Douglas Aster		\$43.40 oz.
Achillea millefolium rubra	Red Yarrow		\$230.00	Aubrieta deltoidea	Rockcress, Purple		\$28.88 oz.
Achlys triphylla	Vanilla Leaf		\$126.00 oz.	Baileya multiradiata	Desert Marigold		\$180.00
Aconitum columbianum	Monkshood		\$224.00 oz.	Balsamorhiza deltoidea	Deltoid Balsamroot		\$52.50 oz.
Actaea rubra	Baneberry		\$48.13 oz.	Balsamorhiza hookeri	Hooker Balsamroot		\$136.00
Adenocaulon bicolor	Pathfinder		\$84.00 oz.	Balsamorhiza macrophylla	Cutleaf Balsamroot		\$186.00
Adonis aestivalis	Pheasant's Eye		\$13.00	Balsamorhiza sagittata	Arowleaf Balsamroot		\$44.00
Agastache urticifolia	Nettleleaf Giant Hyssop		\$76.00	Bellis perennis	English Daisy		\$130.00
Alcea rosa	Hollyhock, Indian Spring		\$30.00	Bidens aristosa	Showy Sunflower / Bur Marigold		\$32.00
Alisma lanceolatum	Lanceleaf Water Plantain		\$40.00	Bidens cernua	Nodding Bur Marigold		\$21.00 oz.
Alisma plantago aquatica	Water Plantain		\$22.40 oz.	Bidens frondosa	Begger's Tick		\$25.90 oz.
Allium Acuminatum	Tapertip Onion		\$67.20 oz.	Calendula officinalis	Calendula		\$17.50
Allium cernuum	Nodding Pink Onion		\$21.00 oz.	Callirhoe involucrata	Purple Poppymallow		\$26.25
Allium Validum	Pacific Onion		\$84.00 oz.	Callistephus chinensis	China Aster		\$36.00
Alyssum saxatile	Basket-of-Gold		\$112.00	Calochortus eurycarpus	Sego Lilly		\$70.00
Ammi majus	Bishop's Flower		\$30.00	Calochortus macrocarpus	Sagebrush Sego Lilly		\$100.80 oz.
Amorpha canescens	Leadplant		\$28.00	Caltha leptosepala	Mountain Marsh Marigold		\$150.00
Anagallis arvensis	Pimpernel		\$97.00	Caltha palustris	Marsh Marigold		\$150.00
Anagallis monelli	Pimpernel, Blue		\$56.00	Camassia leichtlinii	Tall Camas		\$200.00
Anaphalis margariticae	Pearly Everlasting		\$72.00	Camassia quamash	Camas		\$170.00
Anemone cylindrica	Candle Anemone		\$112.00 oz.	Camissonia cheiranthifolia	Beach Evening Primrose		\$124.00
Anemone deltoidea	Columbian Windflower		\$190.00	Campanula carpatica	Tussock Bellflower		\$96.00
Antennaria microphylla	Rosy Pussy Toes		\$218.40 oz.	Campanula rotundifolia	Harebell		\$170.00
Anthemis nobilis	Roman Chamomile		\$21.00 oz.	Carthamus tinctorius	Safflower		\$29.00
Aquilegia caerulea	Columbine, Blue		\$150.00	Castilleja hispida	Harsh Paintbrush		\$252.00 oz.
Aquilegia caerulea,	Mixed Columbine, Mixed Colors		\$140.00	Castilleja miniata	Scarlet Paintbrush		\$270.90 oz.
Aquilegia canadensis	Columbine, Eastern		\$28.00 oz.	Castilleja rhexifolia	Splitleaf Indian Paintbrush		\$288.75 oz.
Aquilegia formosa	Columbine, Western Red		\$32.55 oz,	Castilleja spp.	Indian Paintbrush		\$112.00 oz.
Aquilegia vulgaris	Columbine, Dwarf		\$102.00	Castilleja sulphurea	Sulfur Paintbrush		\$50.40 oz.
Arabis alpina	White Rockcress		\$160.00	Centaurea americana	Basketflower		\$39.00
Aralia californica	Elk Clover		\$170.00	Centaurea cyanus	Bachelor Buttons, Tall (10# Minimum)		\$11.00
Argentina egedii	Pacific Silverweed		\$170.00	Centaurea cyanus (dwarf)	Bachelor Buttons, Dwarf (10# Minimum)		\$12.50
Armeria maritima	Sea Pink		\$150.00	Centaurea cyanus Polka Dot Mix (dwarf)	Bachelor Buttons, Polka Dot Mix (10# Min.)		\$12.50
Arnica cordifolia	Heartleaf Arnica		\$112.00 oz.	Cerastium biebersteinii	Snow-in-Summer		\$132.00
Arnica latifolia	Broadleaf Arnica		\$150.00	Chaenactis douglasii	Dustymaiden		\$30.00
Artemisia suksdorfii	Coastal Mugwort		\$31.50 oz.	Chamaecrista fasciculata	Partridge Pea		\$21.00
Aruncus sylvester	Goat's Beard		\$43.75 oz.	Cheiranthus allionii	Wallflower, Siberian		\$16.00
Asclepias fascicularis	Narrow Leaf Milkweed		\$42.00 oz.	Cheiranthus cheiri	Wallflower, English		\$31.50
Asclepias incarnata	Swamp Milkweed		\$22.75 oz.	Chrysanthemum carinatum	Painted Daisy		\$31.00
Asclepias speciosa	Showy Milkweed		\$80.00	Chrysanthemum coronarium	Garland Daisy		\$12.00
Asclepias tuberosa	Butterfly Milkweed		\$23.63 oz.	Chrysanthemum leucanthemum/superbus	Ox-Eye- Daisy		\$33.50
Aster chillensis	Aster, Pacific		\$68.25 oz.	Chrysanthemum maximum	Shasta Daisy		\$33.50
Aster glaucodes	Aster, Blueleaf		\$19.60 oz,	Chrysanthemum maximum (dwarf)	Dwarf Shasta Daisy		\$80.00
Aster laevis	Smooth Aster		\$21.00 oz.	Chrysanthemum multicaule	Yellow Daisy		\$80.00
Aster ledophyllus	Cascade Aster		\$19.25 oz.	Chrysanthemum paludosum	Creeping Daisy		\$96.00
Aster macrophyllus	Big Leaf Aster ( Packet )		\$42.00 oz.	Cichorium intybus	Chicory		\$12.00
Aster novae-angliae	New England Aster		\$40.25 oz.	Clarkia amoena	Dwarf Godetia (Farewell to Spring)		\$32.00
Aster novae-belgii	New York Aster		\$90.00	Clarkia pulchella	Pinkfairies or Deerhorn Clarkia		\$84.00

Dry  
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SPECIES Botanical Name	Common Name	Applications	Price per Pound	SPECIES Botanical Name	Common Name	Applications	Price per Pound
Clarkia unguiculata	Mountain Garland or Clarkia		\$29.50	Erythronium glandiflorum	Yellow Fawn Lily		\$32.38 oz.
Claytonia perfoliata	Miner's Lettuce		\$70.00oz.	Erythronium oregonum	White Fawn Lily		\$30.63 oz.
Cleome serrulata	Rocky Mtn. Beeplant		\$50.00	Erythronium revolutum	Pink Fawn Lily		\$277.20 oz.
Collinsia grandiflora	Sticky Blue Eyed Mary		\$86.00	Eschscholzia caespitosa	Dwarf California Poppy		\$80.00
Collinsia heterophylla	Chinese Houses		\$32.00	Eschscholzia californica	California Poppy		\$28.00
Collinsia parviflora	Blue Eyed Mary		\$67.20 oz.	Eschscholzia californica "Red"	Red California Poppy		\$48.00
Collomia grandiflora	Large Flowered Collomia (Cascades)		\$86.00	Eschscholzia californica "White"	White California Poppy		\$42.00
Collomia rattani	Sticky Blue Eyed Mary		\$35.50	Eschscholzia mexicana	Mexican Gold Poppy		\$60.00
Coreopsis atkinsoniana	Columbia Coreopsis		\$25.00	Fragaria vesca v. bracteata	Woodland Strawberry		\$172.38 oz.
Coreopsis lanceolata	Lance Lvd. Coreopsis		\$28.00	Fragaria virginiana	Wild Strawberry		\$302.40 oz.
Coreopsis lanceolata (dwarf)	Lance Lvd. Coreopsis, Dwarf		\$37.00	Frasera albicualis	Columbia Frasera		\$56.00 oz.
Coreopsis tintoria	Plains Coreopsis		\$24.00	Fritillaria affinis	Checker Lilly		\$154.00 oz.
Coreopsis tintoria (dwarf)	Plains Coreopsis, Dwarf		\$33.00	Fritillaria pudica	Yellow Bells		\$84.00 oz.
Cosmos bipinnatus	Cosmos		\$24.00	Gaillardia aristata	Perennial Gaillardia		\$30.00
Cosmos bipinnatus (dwarf)	Dwarf Cosmos		\$36.00	Gaillardia aristata (dwarf)	Perennial Dwarf Gaillardia		\$100.00
Cosmos sulphureus	Sulphur Cosmos		\$14.00	Gaillardia pulchella	Annual Gaillardia		\$30.00
Cynoglossum amabile	Chinese Forget-Me-Not		\$12.00	Gazania splendens	Gazania		\$150.00
Cynoglossum grande	Pacific Hound's Tongue		\$61.25 oz.	Geranium oreganum	Oregon Geranium		\$322.00 oz.
Dalea purpurea	Purple Prairie Clover		\$56.00	Geranium viscosissimum	Wild Geranium (Sticky)		\$41.48 oz.
Delphinium ajacis	Rocket Larkspur		\$30.00	Geum macrophyllum	Large Leaved Avens		\$28.00 oz.
Delphinium consolida blue	Rocket Larkspur Blue		\$420.00 oz.	Gilia capitata	Globe Gilia		\$33.50
Desmanthus illinoensis	Illinois Bundlesflower		\$48.00	Gilia leptantha	Fineflower Gilia		\$33.50
Dianthus barbatus	Sweet William Pinks		\$26.00	Gilia tricolor	Bird's Eyes		\$33.50
Dianthus barbatus Single Tall	Sweet William Pinks, Single Mix		\$25.50	Grindelia camphorum	Valley Gumweed		\$84.00
Dianthus deltooides	Maiden Pinks		\$160.00	Grindelia hirsutula var. hirsutula	Foothill Gumweed		\$78.00
Dicentra formosa	Bleeding Heart		\$130.00	Grindelia integrefolia	Willamette Valley Gumweed		\$110.00
Dichelostemma congestum	Baldhead Cluster Lily		\$64.40 oz.	Grindelia stricta	Pacific Gumweed		\$200.00
Digitalis purpurea	Foxglove mix		\$70.00	Gypsophila elegans	Baby's Breath, Annual Red		\$8.00
Dimorphotheca aurantiaca (Flake)	African Daisy - Flake		\$39.00	Gypsophila paniculata	Baby's Breath, Perennial		\$48.00
Dimorphotheca aurantiaca (Stick)	African Daisy - Stick		\$40.00	Hedysarum boreale	Northern Sweetvetch/Utah sweetvetch		\$170.00
Disporum hookeri	Hooker Fairy Bell		\$200.00	Hedysarum occidentale	Sweetvetch		\$31.00
Disporum smithii	Smith Fairy Bell		\$200.00	Helianthus angustifolius	Sunflower, Swamp		\$120.00
Disporum trachycarpum	Sierra Fairy Bell		\$21.88 oz.	Helianthus annuus	Sunflower, Sungold Dwarf		\$24.00
Dodecatheon jeffreyi	Mountain Shooting Star		\$210.00 oz.	Helianthus giganteus	Sunflower, Giant		\$49.00 oz.
Dodecatheon pulchellum	Shooting Star		\$64.40 oz.	Helianthus maximiliani	Sunflower, Maximilian		\$50.00
Downingia elegans	Elegant Downingia		\$42.00 oz.	Heliopsis helianthoides	Sunflower, Ox-Eye		\$48.00
Downingia pulchella	Dwarf Calicoflower		\$20.13 oz.	Heracleum lanatum	Cow-parsnip		\$80.00
Downingia yina	Willamette Downingia		\$19.25 oz.	Hesperis matronalis	Dame's Rocket		\$20.00
Echinacea pallida	Pale Purple Coneflower		\$130.00 oz.	Heterotheca villosa	Hairy False Golden Aster		\$96.00
Echinacea purpurea	Purple Coneflower		\$32.00	Heuchera cylindrica	Roundleaf Alumroot		\$44.80 oz.
Epilobium angustifolium	Fireflower		\$100.00	Heuchera grossulariifolia	Gooseberryleaf Alumroot		\$280.00 oz.
Epilobium densiflora	Dense Spike Primrose		\$84.00	Heuchera micrantha	Alumroot		\$33.43 oz.
Erigeron glaucus	Seaside Daisy		\$27.13 oz.	Hydrophyllum fendleri	Fendler's Waterleaf		\$70.00 oz.
Erigeron peregrinus	Sub Alpine Daisy		\$77.50	Hydrophyllum tenuipes	Pacific Waterleaf		\$134.40 oz.
Erigeron speciosus	Aspen (Fleabane) Daisy		\$100.00	Iberis sempervirens	Candytuft, Perennial		\$21.70 oz.
Eriogonum compositum	Heartleaf Buckwheat		\$110.00	Iberis umbellata	Candytuft, Annual		\$24.00
Eriogonum latifolium	Beach Buckwheat		\$31.50 oz.	Iliamna rivularis	Mountain Hollyhock		\$52.50 oz.
Eriogonum niveum	Snow Buckwheat		\$130.00	Ipomopsis rubra	Gilia/Standing Cypress		\$100.00
Eriogonum umbellatum	Sulfur Flower		\$72.00	Iris bracteata	Siskyou Iris		\$170.00
Eriophyllum lanatum	Oregon Sunshine		\$20.56 oz.	Iris chrysophylla	Yellowleaf Iris		\$35.00 oz.
Erodium cicutarium	Storks Bill		\$76.00	Iris douglasiana	Douglas Iris		\$150.00

Dry  
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SPECIES Botanical Name	Common Name	Applications	Price per Pound
Iris missouriensis	Wild Blue Iris		\$44.00
Iris pseudacorus	Yellow Iris		\$170.00
Iris setosa	Alaska Iris		\$129.85 oz.
Iris tenax	Oregon Iris		\$86.00
Iris versicolor	Blue Flag		\$31.50 oz.
Lasthenia glabrata/ Califomica	Goldfields		\$56.00
Lathyrus japonicus	Purple Beach Pea		\$198.00
Lathyrus latifolius	Sweet Pea, Perennial		\$94.00
Lathyrus littoralis	Grey Beach Peavine		\$150.00
Lathyrus maritimus	Beach Pea		\$96.00
Lathyrus odoratus	Sweet Pea Knee High		\$28.00
Lavatera trimestris	Rose Mallow		\$18.50
Layia platyglossa	Tidy Tips		\$60.00
Liatis aspera	Button Blazing Star		\$34.13 oz.
Liatis pycnostachya	Gayfeather, Thickspike		\$24.50 oz.
Liatis spicata	Gayfeather		\$70.00
Ligusticum apiifolium	Celeryleaf Licorice-root		\$33.60 oz.
Lilium washingtonianum	Washington Lily		\$105.00 oz.
Lilium columbianum	Columbia Lily		\$58.63
Limnanehes douglasii	Meadow Foam		\$64.00
Linanthus grandiflorus	Mountain Phlox		\$51.00
Linaria maroccana	Spurred Snapdragon (Dwarf)		\$34.00
Lingusticum grayii	Gray's Licorice-root		\$70.00 oz.
Linum grandiflorum rubrum	Flax, Scarlet		\$29.00
Linum perenne lewisii	Flax, Blue		\$16.00
Lobularia maritima	Sweet Alyssum, White		\$23.50
Lobularia maritima (dwarf)	Sweet Alyssum, "Carpet of Snow"		\$38.00
Lobularia maritima (dwarf)	Sweet Alyssum, "Royal Carpet"		\$74.00
Lomatium columbianum	Columbia Desert Parsley		\$21.00 oz.
Lomatium dissectum	Chocolate Tips		\$23.28 oz.
Lomatium grayi	Pungent Desert Parsley		\$25.38 oz.
Lomatium macrocarpum	Large Fruited Lomatium		\$156.00
Lomatium nudicaule	Wild Parsley		\$120.00
Lomatium parryi	Utah Desert Parsley		\$28.00 oz.
Lomatium suksdorfii	Suksdorf's Desert Parsley		\$160.00
Lomatium triternatum	Nine Leaf Lomatium		\$150.00
Lomatium utriculatum	Spring Gold		\$32.38 oz.
Lotus corniculatus	Bird's Foot Trefoil (10 # Minimum)		\$34.00
Lotus purshianus/unifoliatus	Spanish Clover		\$79.80
Lunaria biennis	Money Plant		\$51.00
Lupinus albicaulis	Sickle Keeled Lupine		\$46.00
Lupinus alpestris/argenteus	Mountain Lupine		\$160.00
Lupinus arboreus	Yellow Bush Lupine		\$200.00
Lupinus argenteus	Silver Lupine		\$180.00
Lupinus arizonicus	Desert Lupine		\$31.50 oz.
Lupinus bicolor	Bicolor Lupine		\$80.00
Lupinus caudatus	Tailcup Lupine		\$164.00
Lupinus densiflorus aureus	Yellow Lupine		\$46.00
Lupinus latifolius	Broadleaf Lupine		\$110.00
Lupinus laxiflorus	Spurred Lupine		\$90.00
Lupinus lepidus	Prairie Lupine		\$72.00

Dry  
 Moist  
 Wet  
 Green Roof

SPECIES Botanical Name	Common Name	Applications	Price per Pound
Lupinus littoralis	Seashore Lupine		\$170.00
Lupinus micranthus	Douglas Lupine		\$80.00
Lupinus nanus	Sky Lupine		\$32.00
Lupinus perennis	Perennial Lupine		\$30.00
Lupinus polycarpus	Small Lupine		\$125.50
Lupinus polyphyllus	Many Leaved Lupine (Russell's)		\$32.00
Lupinus rivularis	River Lupine		\$31.50
Lupinus sericeus	Silky Lupine		\$130.00
Lupinus succulentus	Arroyo Lupine		\$24.00
Lupinus sulphureus	Sulfur Lupine		\$42.00
Lupinus texensis	Texas Bluebonnet		\$54.00
Lychnis chalconica	Maltese Cross		\$54.00
Machaeranthera tanacetifolia	Prairie Aster		\$104.00
Machaeranthera tanacetifolia	Prairie Aster		\$72.00
Madia elegans	Showy Tarweed		\$170.00
Madia glomerata	Tarweed		\$190.00
Madia gracilis	Grassy Tarweed		\$19.25 oz.
Maianthemum racemosum	False Salomon's Seal		\$52.50 oz.
Malcomia maritima	Virginia Stock		\$28.00
Mentzelia lindleyi	Blazing Star		\$96.00
Mimulus aurantiacus	Sticky Monkey Flower		\$80.00
Mimulus guttatus	Yellow Monkey Flower		\$84.00 oz.
Mimulus lewisii	Purple Monkey Flower		\$504.00 oz.
Mimulus tigrinus	Monkey Flower		\$28.00 oz.
Mirabilis jalapa	Four O'Clock (10 # Minimum)		\$14.00
Monarda citriodora	Lemon Mint		\$40.00
Monarda fistulosa	Wild Bergamot		\$90.00
Myosotis sylvatica / alpestri	Forget-Me-Not		\$80.00
Nemophila maculata	Five-Spot		\$35.50
Nemophila menziesii	Baby Blue Eyes		\$35.00
Nigella damascena	Love-In-A-Mist		\$20.00
Nuphar polysepalum	Yellow Water Lily		\$21.00 oz.
Oenanthe sarmentosa	Water Parsley		\$170.00
Oenothera elata hookeri	Tall Evening Primrose		\$10.00
Oenothera lamarckiana	Common Evening Primrose		\$8.00
Oenothera missouriensis	Dwarf Evening Primrose		\$68.00
Oenothera pallida	Pale Evening Primrose		\$105.00
Oenothera speciosa	Showy Evening Primrose		\$70.00
Olsynium douglasii	Douglas Grasswidow		\$280.00 oz.
Osmorhiza occidentalis	Sweet Anise		\$33.60 oz.
Papaver nudicaule	Poppy, Iceland		\$100.00
Papaver rhoeas	Poppy, Corn		\$34.00
Papaver rhoeas, "American Legion"	Red Corn Poppy		\$34.00
Penstemon cyananthus	Penstemon, Wasatch		\$21.88 oz.
Penstemon davidsonii	Penstemon, Davidson's		\$262.50 oz.
Penstemon digitalis	Foxglove Beardtongue		\$20.13 oz.
Penstemon eatoni	Penstemon, Firecracker		\$21.88 oz.
Penstemon grandiflorus	Penstemon, Shell Leaf		\$19.25 oz.
Penstemon palmeri	Penstemon, Palmer		\$40.00 oz.
Penstemon serrulatus	Penstemon, Coastal		\$140.00 oz.
Penstemon strictus	Penstemon, Rocky Mtn.		\$45.00

Dry  
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SPECIES Botanical Name	Common Name	Applications	Price per Pound	SPECIES Botanical Name	Common Name	Applications	Price per Pound
Phacelia campanularia	California Bluebell		\$34.00	Sisyrinchium californicum	Yellow Eyed Grass		\$31.50 oz.
Phacelia tanacetifolia	Lacy phacelia		\$21.50	Sisyrinchium douglasii	Grass Windows		\$81.20 oz.
Phlox drummondii (Annual Mixed Colors)	Mountain Phlox (Annual Mixed Colors)		\$64.00	Sisyrinchium inflatum	Purple Eyed Grass		\$50.40 oz.
Phlox drummondii (Annual Red)	Mountain Phlox (Annual Red)		\$64.00	Smilacina racemosa	False Solomon Seal		\$39.38 oz.
Plagiobothrys figuratus	Popcorn Flower		\$120.00	Smilacina stellata	Starry Solomon Seal		\$172.73 oz.
Plectritis congesta	Sea Blush		\$79.00	Solidago canadensis	Canada Goldenrod		\$168.00 oz.
Polygonum bistortoides	American Bistort		\$196.00 oz.	Solidago gigantia	Smooth Goldenrod		\$72.00
Polygonum hydropiperoides	Marsh Waterpepper		\$90.00	Solidago nemoralis	Grey Goldenrod		\$42.00 oz.
Polygonum punctatum	Water Smartweed		\$76.00	Solidago rigida	Rigid Goldenrod		\$180.00
Potentilla anserina	Silverweed Cinquefoil		\$170.00	Sphaeralcea ambigua	Globemallow, Desert		\$88.00
Potentilla arguta	Tall Prairie Cinquefoil		\$170.00	Sphaeralcea coccinea	Globemallow, Scarlett		\$200.00
Potentilla gracilis	Northwest Cinquefoil		\$21.35 oz.	Sphaeralcea grossularifolia	Globemallow, Gooseberry		\$19.25 oz.
Potentilla grandulosa	Sticky Cinquefoil		\$212.00	Streptopus amplexifolia	Twisted Stalk		\$61.60 oz.
Potentilla palustris	Marsh Cinquefoil		\$170.00	Symphyotrichum laeve	Smooth Aster		\$21.00 oz.
Prosartes hookeri	Drops of Gold		42.00 oz.	Symphyotrichum novae-angliae	New England Aster		\$40.25 oz.
Prunella lanceolata	Self Heal		\$47.00	Synthesis stellata	Columbia Kittenails		\$170.00
Ranunculus californica	California Buttercup		\$33.25 oz.	Tanacetum camphoratum	Camphor Tansy		\$103.60 oz.
Ranunculus occidentalis	Western Buttercup		\$24.50 oz.	Tellima grandiflora	Fringecup		\$30.63 oz.
Ranunculus orthorhynchus	Straight Beak Buttercup		\$157.00	Thalictrum fendleri	Fendler's Meadow Rue		\$93.80 oz.
Ratibida columnifera	Coneflower, Prairie		\$36.00	Thalictrum occidentale	Western Meadow Rue		\$93.80 oz.
Ratibida columnifera (dwarf)	Coneflower, Dwarf Red		\$44.00	Thunbergia alata	Black Eyed Susan Vine		\$70.00
Ratibida pinnata	Coneflower, Grey-Headed		\$48.00	Thymus serpyllum	Creeping Thyme		\$200.00
Rorippa curvisiligua	Western Yellow Cress		\$23.63 oz.	Tolmiea menziesii	Youth-On-Age		\$252.00 oz.
Rudbeckia amplexicaulis	Coneflower, Clasping		\$23.50	Trillium chloropetalum	Giant Trillium		\$140.00 oz.
Rudbeckia hirta	Black-Eyed Susan		\$31.50	Trillium ovatum	Western Trillium		\$70.00 oz.
Rudbeckia occidentalis	Western Coneflower		\$22.40 oz.	Tropaeolum majus Nasturtium,	Dwarf, Mixed		\$16.00
Rudbeckia subtomentosa	Black-Eyed Susan, Sweet		\$96.00	Vancouveria hexandra	Inside Out Flower		\$52.50 oz.
Rudbeckia triloba	Brown Eyed Susan		\$192.00	Verbena hastata	Blue Vervain		\$108.00
Sagittaria latifolia	Wapato/Arrowhead Duck Potato		\$160.00	Verbena stricta	Hoary Vervain		\$80.00
Salicornia virginica	Pickleweed		\$110.00	Verbena tenuisecta Verbena,	Moss Dark Blue		\$98.00
Salvia azurea	Sage, Pitcher		\$150.00	Veronica prostrata	Harebell Speedwell (Packet 500 Seeds)		\$54.00
Salvia coccinea	Sage, Scarlet		\$40.00	Veronica repens	Creeping Speedwell (Packet 500 Seeds)		\$54.00
Salvia farinacea	Sage, Blue		\$124.00	Veronica spicata	Blue Carpet (Packet 500 Seeds)		\$54.00
Sanguisorbia minor	Small Burnet		\$2.40	Viguiera multiflora/Heliomeris multiflora	Showy Goldeneye		\$156.00
Sanvitalia procumbens	Creeping Zinnia		\$100.00	Viola comuta/Tricolor	Johnny Jump-Up		\$120.00
Saponaria ocymoides	Soapwort		\$70.00	Viola glabella	Stream Violet		\$140.00 oz.
Sedum divergens	Pacific Stonecrop		\$252.00 oz.	Wyethia amplexicaulis/angustifolia	Mule's Ears		\$100.00
Sedum lanceolatum	Stonecrop		\$21.88 oz.	Wyethia mollis	Wooly Mule's Ears		\$76.00
Sedum oreganum	Oregon Stonecrop		\$28.00 oz.	Xerophyllum tenax	Bear Grass		\$86.00
Sedum pulchellum	Widow's Cross (Packet 1000 seeds)		\$50.00	Zinnia elegans	Zinnia, Ca. Giant/ Dahlia Mix		\$34.00
Sedum stenopetalum	Narrow-leaf Stonecrop		\$130.00	Zinnia linearis	Classic Zinnia		\$21.00 oz.
Sedum tematum	Woodland Stonecrop		\$196.00				
Sidalcea campestris	Tall Wild Hollyhock		\$21.88 oz.				
Sidalcea cusickii	Cusick's Hollyhock		\$200.00				
Sidalcea hendersonii	Henderson's Checkermallow		\$35.88 oz.				
Sidalcea oregana	Oregon Checkermallow		\$93.80 oz.				
Sidalcea virgata	Rose Checkermallow		\$27.83 oz.				
Silene armeria	Catchfly		\$27.50				
Silene pendula	Catchfly, Nodding		\$27.50				
Sisyrinchium angustifolium	Narrowleaf Blue Eyed Grass		\$33.25 oz.				
Sisyrinchium bellum/Idahoense	Blue Eyed Grass		\$22.75 oz.				

Dry  
 Moist  
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Our Tree and Shrub seeds are of the highest quality available. We can supply your project with Bioregion specific seeds from most of North America through our network of collectors, growers, nurserymen, and industry professionals. Sunmark Seeds takes great pride in providing hard to find native tree and shrub seed. Please contact us with help on specie selection of any kind of specific tree and shrub mixture. We can provide a balanced seed mixture based on seeds per square foot for your project.



SPECIES Botanical Name	Common Name	Applications	Price per Pound	SPECIES Botanical Name	Common Name	Applications	Price per Pound
Abies amabilis	Pacific Silver Fir		\$122.50	Arctostaphylos patula	Greenleaf Manzanita	 	\$100.00
Abies concolor	White Fir		\$137.50	Arctostaphylos uva-ursi	Bearberry	 	\$175.00
Abies grandis	Grand Fir		\$100.00	Arctostaphylos viscida	Sticky Whiteleaf Manzanita	 	\$110.00
Abies grandis bio Cascades	Grand Fir (Cascades)		\$155.00	Aronia melanocarpa	Black Chokeberry	 	\$112.50
Abies grandis bio Coastal	Grand Fir (Coastal)		\$98.50	Artemisia cana	Silver Sagebrush		\$67.50
Abies grandis bio Rocky Mountains	Grand Fir (Rocky Mountains)		\$187.50	Artemisia frigida	Fringed Sagebrush		\$135.00
Abies lasiocarpa	Sub-Alpine Fir		\$77.50	Artemisia ludoviciana	Prairie Sagebrush	 	\$21.88 oz.
Abies magnifica var. magnifica	California Red Fir		\$107.50	Artemisia nova	Black Sagebrush	 	\$60.00
Abies magnifica var. shastensis	Shasta Red Fir		\$97.50	Artemisia suksdorfii	Coast Wormwood	 	\$26.25 oz.
Abies procera	Noble Fir		\$150.00	Artemisia tridentata	Basin Big Sagebrush		\$60.00
Acacia baileyana	Gold Acacia		\$167.50	Asimina triloba	Paw Paw		\$55.00
Acacia cultriformis	Knife Acacia		\$167.50	Atriplex brewerii	Brewer Saltbush		\$41.25
Acacia cyclops	Western Coastal Wattle		\$137.50	Atriplex canescens	Four Wing Saltbush		\$27.00
Acacia dealbata	Silver Wattle		\$75.00	Atriplex confertifolia	Shadscale Saltbush		\$45.00
Acacia decurrens	Black Wattle		\$52.50	Atriplex lentiformis	Quail Bush		\$45.00
Acacia farnesiana	West Indian Black Thorn		\$240.00	Baccharis pilularis	Coyote Brush	 	\$140.00 oz.
Acacia latifolia	Longifolia		\$107.50	Berberis thunbergii atropur.	Red Barberry		\$200.00
Acacia melanoxylon	Blackwood Acacia		\$65.00	Betula glandulosa	Bog Birch	 	\$145.00
Acacia podalyriifolia	Pearl Acacia		\$157.50	Betula occidentalis	River Birch	 	\$112.50
Acacia redolens	Prostrate Acacia		\$182.50	Betula papyrifera	Paper Birch	 	\$107.50
Acacia saligna	Goldwreath Acacia		\$52.50	Betula pendula (alba)	White Birch	 	\$103.63
Acacia stenophylla	Weeping Foliage		\$40.10 oz.	Buddleia davidii	Common Lilac		\$28.00 oz.
Acacia verticillata	Prickly Moses		\$51.04 oz.	Buxus sempervirens	Common Boxwood		\$105.00
Acer buergeranum	Trident Maple		\$105.00	Calocedrus decurrens	Incense Cedar		\$17.50 oz.
Acer circinatum	Vine Maple	 	\$100.00	Calycanthus floridus	Sweet Shade	 	\$57.50
Acer glabrum	Rocky Mountain Maple	 	\$50.00	Camellia japonica	Camellia	 	\$70.00
Acer glabrum var. douglasii	Douglas Maple	 	\$50.00	Camellia sinensis	Tea Tree	 	\$62.50
Acer griseum	Paperbark Maple	 	\$155.00	Campsis radicans	Trumpet Creeper	 	\$62.50
Acer macrophyllum	Big Leaf Maple	 	\$30.00	Carya aquatica	Water Hickory	 	\$15.00
Acer mono	Painted Maple	 	\$95.00	Carya ovata	Shag-Bark Hickory	 	\$12.50
Acer negundo	Box Elder	 	\$32.50	Cassia artemisioides	Wormwood Senna		\$13.27 oz..
Acer palmatum	Green Maple	 	\$137.50	Cassia fistula	Golden Shower		\$165.00
Acer palmatum atropur.	Redleaf Maple	 	\$16.63 oz.	Cassia grandis	Pink Shower		\$23.33 oz.
Acer rubrum	Red Maple	 	\$80.00	Cassia leptophylla	Gold Medallion Tree		\$157.50
Acer saccharinum	Silver Maple	 	\$20.00	Cassia phyllodena	Silver Leaf Cassia		\$170.00
Acer saccharum	Sugar Maple	 	\$30.00	Cassia tomentosa	Wooly Senna		\$182.50
Acer truncatum	Shantung Maple	 	\$80.00	Casuarina cunninghamiana	River She Oak	 	\$192.50
Albizia julibrissin	Silk Tree	 	\$62.50	Catalpa speciosa	Northern Catalpa	 	\$117.50
Alnus cordata	Italian Alder	 	\$145.00	Ceanothus cordulatus	Snowbush	 	\$13.13 oz.
Alnus incana	Thin Leaved Alder	 	\$137.50	Ceanothus integerrimus	Deer Brush (Mtn Lilac)	 	\$175.00
Alnus rhombifolia	White Alder	 	\$237.50	Ceanothus sanguineus	Redstem Ceanothus	 	\$175.00
Alnus rubra	Red Alder	 	\$212.50	Ceanothus velutinus	Snowbrush (Mtn Balm)	 	\$200.00
Alnus sinuata	Sitka Alder	 	\$25.67 oz.	Cedrus atlantica	Atlas Mountain Cedar		\$127.50
Alnus viridis	Green Alder	 	\$18.23 oz.	Cedrus deodara	Deodor Cedar		\$55.88
Amelanchier alnifolia	Serviceberry	 	\$212.50	Cedrus libani	Cedar of Lebanon		\$225.00
Amelanchier canadensis	Canadian Serviceberry	 	\$29.90 oz.	Celtis australis	European Hackberry	 	\$55.00
Amelanchier ovalis	Coastal Serviceberry	 	\$175.00	Celtis occidentalis	Western Hackberry	 	\$80.00
Amelanchier utahensis	Utah Serviceberry	 	\$162.50	Celtis sinensis	Chinese Hackberry	 	\$137.50
Amorpha fruticosa	Indigo Bush		\$16.63	Ceratonia siliqua	Carob Tree	 	\$60.00
Arbutus menziesii	Pacific Madrone	 	\$120.00	Cercis chinensis	Chinese Redbud	 	\$83.75
Arctostaphylos columbiana	Hairy Manzanita	  	\$13.13 oz.	Cercis occidentalis	Western Redbud	 	\$75.00

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Cercis siliquastrum	Judas Tree		\$50.00	Ginkgo biloba	Maidenhair Tree		\$15.50
Cercocarpus ledifolius	Mtn. Mahogany or Curl Leaf		\$125.00	Gleditsia triacanthos	Thornless Locust		\$21.13
Cercocarpus montanus	Birchleaf Mountain Mahogany		\$150.00	Glycyrrhiza glabra	Licorice		\$162.50
Chamaecyparis lawsoniana	Port Orford Cedar		\$112.50	Hamamelis virginiana	Witch Hazel		\$107.50
Chionanthus retusus	Chinese Fringe Tree		\$72.50	Holodiscus discolor	Ocean Spray		\$100.00
Chionanthus virginicus	White Fringe Tree		\$67.50	Ilex montana	Mountain Holly		\$90.00
Chrysothamnus nauseosus	Rubber Rabbitbrush		\$13.50	Ilex opaca	American Holly		\$60.00
Chrysothamnus viscidiflorus	Low Rabbitbrush		\$13.50	Juglans hindsii	Northern California Walnut		\$18.75
Cistus villosus	Rock Rose		\$15.17 oz.	Juniperus communis	Common Juniper		\$132.50
Clematis columbiana	Blue Flower Clematis		\$270.52 oz.	Juniperus horizontalis	Creeping Juniper		\$17.50 oz.
Clematis hirsutissima	Sugar Bowl		\$130.00	Juniperus occidentalis	Western Juniper		\$24.06 oz.
Clematis ligusticifolia	Western Clematis (Cascades)		\$27.71 oz.	Juniperus osteosperma	Utah Juniper		\$150.00
Cornus alternifolia	Pagoda Dogwood		\$50.75	Juniperus scopulorum	Rocky Mountain Juniper		\$150.00
Cornus canadensis	Bunchberry		\$37.33 oz.	Kalmia latifolia	Mountain Laurel		\$49.58 oz.
Cornus controversa	Giant Dogwood		\$92.50	Larix occidentalis	Western Larch		\$16.77 oz.
Cornus florida	Flowering Dogwood		\$55.00	Larrea tridentata	Creosote Bush		\$35.00 oz.
Cornus kousa var chinensis	Chinese Dogwood		\$75.00	Ledum glandulosum	Trappers Tea		\$401.04 oz.
Cornus nuttalli	Pacific Dogwood		\$162.50	Libocedrus decurrens	Incense Cedar		\$152.50
Cornus racemosa	Gray Dogwood		\$40.00	Liquidambar styraciflua	American Sweet Gum		\$202.50
Cornus stolonifera (sericea)	Red Osier Dogwood		\$67.50	Lonicera ciliosa	Trumpet Honeysuckle		\$49.58 oz.
Corylus cornuta	Hazelnut		\$46.25	Lonicera hirsuta	Hairy Honeysuckle		\$27.71 oz.
Cotinus coggygria	Common Smoke Tree		\$80.00	Lonicera involucrata	Twinberry		\$58.33 oz.
Cotoneaster horizontalis	Rock Cotoneaster		\$122.50	Lonicera podocarpa	Honeysuckle		\$18.23 oz.
Crataegus coccinea	Red Hawthorne		\$80.00	Mahonia aquifolium	Tall Oregon Grape		\$137.50
Crataegus columbiana	Columbia Hawthorne		\$87.50	Mahonia nervosa	Cascade Oregon Grape		\$210.00
Crataegus douglasii	Black Hawthorne		\$87.50	Mahonia repens	Creeping Oregon Grape		\$175.00
Crataegus douglasii var douglasii	Yakima Black Hawthorne		\$112.50	Malus baccata	Siberian Crabapple		\$150.00
Crataegus mollis	Downy Hawthorne		\$62.50	Malus domestica	Common Apple		\$46.25
Cryptomeria japonica	Japanese Red Cedar		\$85.00	Malus fusca	Pacific Crabapple		\$65.63 oz.
Cupressus arizonica	Arizona Cypress		\$140.00	Malus pulmia	Wild Crabapple		\$46.50
Cupressus macrocarpa	Monterey Cypress		\$82.50	Menziesia ferruginea	Fool's Huckleberry		\$436.04 oz.
Diospyros lotus	Date Plum		\$57.50	Myrica californica	Pacific Wax Myrtle		\$17.50 oz.
Diospyros virginiana	Persimmon		\$32.50	Myrica cerifera	Wax Myrtle		\$67.50
Elaeagnus angustifolia	Russian Olive		\$21.25	Myrtus communis	True Myrtle		\$17.94 oz.
Elaeagnus commutata	Silverberry		\$70.00	Myrtus communis compacta	Dwarf True Myrtle		\$54.69 oz.
Elaeagnus pungens	Thorny Olive		\$22.60 oz.	Nandina domestica	Red Berries		\$71.13
Elaeagnus umbellata	Autumn Olive		\$61.25	Nyssa sylvatica	Black Tupelo		\$70.00
Ephedra viridis	Mormon Tea		\$187.50	Oemleria cerasiformis	Indian Plum		\$125.00
Eriobotrya japonica	Green Loquat		\$36.75	Olea europaea	Common Olives		\$60.00
Eriogonum arborescens	Arborescent		\$16.92 oz.	Oplopanax horridum	Devil's Club		\$29.17 oz.
Eriogonum compositum	Arrowleaf Buckwheat		\$32.81 oz.	Opuntia phaeacantha	Plains Prickly Pear		\$45.00
Eriogonum fasciculatum	Flattop Buckwheat brush		\$16.04 oz.	Pachistima myrsinites	Oregon Boxwood		\$14.58 oz.
Euonymus alatus	Burning Bush		\$112.50	Philadelphus lewisii	Mock Orange		\$19.69 oz.
Fraxinus americana	White Ash		\$30.00	Physocarpus capitatus	Pacific Nine Bark		\$18.23 oz.
Fraxinus anomala	Utah Ash		\$82.50	Physocarpus opulifolius	Common Nine Bark		\$82.50
Fraxinus latifolia	Oregon Ash		\$67.50	Picea engelmannii	Engelmann Spruce		\$131.00
Fraxinus ornus	Flowering Ash		\$27.50	Picea glauca densata	Blackhills Spruce		\$18.23 oz.
Fraxinus pennsylvanica	Green Ash		\$30.00	Picea pungens glauca	Blue Spruce		\$22.60 oz.
Fraxinus velutina	Arizona Ash		\$127.50	Picea stichensis	Sitka Spruce		\$130.00
Gardenia jasminoides	Common Gardenia		\$155.00	Pinus aristata	Bristlecone Pine		\$19.98 oz.
Gaultheria shallon	Salal		\$28.58 oz.	Pinus armandii	Chinese White Pine		\$85.00








































Dry  
 Moist  
 Wet  
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SPECIES Botanical Name	Common Name	Applications	Price per Pound	SPECIES Botanical Name	Common Name	Applications	Price per Pound
Pinus attenuata	Knobcone Pine		\$162.50	Ribes aureum	Golden Currant		\$212.50
Pinus banksiana	Jack Pine		\$14.15 oz.	Ribes bracteosum	Stink Currant		\$65.63 oz.
Pinus contorta	Shore Pine		\$18.23 oz.	Ribes cereum	Wax Currant		\$13.85 oz.
Pinus contorta latifolia	Lodgepole Pine		\$137.50	Ribes divaricatum	Straggly Gooseberry		\$72.33 oz.
Pinus contorta murrayana	Lodgepole Pine		\$187.50	Ribes lacustre	Swamp Gooseberry		\$87.50 oz.
Pinus coulteri	Coulter Pine		\$165.00	Ribes laxiflorum	Western Black Currant (Packet Only)		\$112.50
Pinus densiflora	Japanese Red Pine		\$122.50	Ribes montigeum	Mountain Gooseberry		\$31.35 oz.
Pinus edulis	Pinyon Pine		\$62.50	Ribes sanguineum	Red Flowering Current		\$25.52 oz.
Pinus elliottii	Slash Pine		\$110.00	Ribes viscosissimum	Sticky Currant		\$34.27 oz.
Pinus flexilis	Limber Pine		\$150.00	Robinia pseudoacacia	Black Locust		\$10.00
Pinus glabra	Spruce Tree		\$52.50 oz.	Rosa acicularis	Prickly Rose		\$63.38
Pinus jefferyi	Jeffrey Pine		\$125.00	Rosa canina	Dog Rose		\$12.75
Pinus monticola	Western White Pine		\$100.00	Rosa gymnocarpa	Baldhip Rose		\$72.92 oz.
Pinus mugo pumilo	Mugo Pine		\$15.31 oz.	Rosa nutkana	Nootka Rose		\$112.50
Pinus muricata	Bishop Pine		\$16.33 oz.	Rosa pisocarpa	Swamp Rose		\$14.58 oz.
Pinus palustris	Long Leaf Pine		\$19.40 oz.	Rosa woodsii	Woods Rose		\$70.00
Pinus parviflora	Japanese White Pine		\$20.71 oz.	Rubus leucodermis	Black Raspberry		\$40.10 oz.
Pinus patula	Mexican Pine		\$55.00	Rubus parviflorus	Thimbleberry		\$26.25 oz.
Pinus pinea	Italian Stone Pine		\$50.00	Rubus spectabilis	Salmonberry		\$24.06 oz.
Pinus ponderosa	Ponderosa Pine		\$100.00	Rubus ursinus (vitifolia)	Trailing Blackberry		\$49.58 oz.
Pinus pumila	Dwarf Stone Pine		100.00	Salix fluviatilis	Columbia River Willow		Call
Pinus rigida	Pitch Pine		\$137.50	Salix hookeriana	Hooker's Willow		Call
Pinus sabiniana	Digger Pine		\$110.00	Salix lasiandra	Pacific Willow		Call
Pinus strobus	White Pine		\$13.71 oz.	Salix piperi	Piper's Willow		Call
Pinus sylvestris	Scots Pine		\$87.50	Salix rigida var. macrogemma	Rigid Willow		Call
Pinus taeda	Loblolly Pine		\$106.25	Salix scouleriana	Scouler Willow		Call
Pinus thunbergii	Japanese Black Pine		\$75.00	Salix sessilifolia	Soft Leaved Willow		Call
Pinus torreyana	Torrey Pine		\$167.50	Salix sitchensis	Sitka Willow		Call
Plantinus racemosa	California Sycamore		\$147.50	Sambucus cerulea	Blue Elderberry		\$91.88
Platanus occidentalis	American Sycamore		\$57.50	Sambucus racemona	Red Elderberry		\$62.50
Populus tremuloides	Quaking Aspen		\$123.23 oz.	Sapindus drummondii	Western Soapberry		\$92.50
Populus trichocarpua	Black Cottonwood		\$65.63 oz.	Sarcobatus vermiculatus	Greasewood		\$80.00
Potentilla fruticosa	Shrubby Cinquefoil		\$61.25 oz.	Sequoia gigantea	Giant Sequoia		\$33.54 oz.
Prosopis juliflora	Mesquite		\$55.00	Sequoia sempervirens	Coast Redwood		\$32.96 oz.
Prunus americana	Wild Plum		\$40.00	Shepherdia argentea	Silver Buffaloberry		\$175.00
Prunus emarginata	Bitter Cherry		\$90.00	Shepherdia canadensis	Russett Buffaloberry		\$200.00
Prunus serotina	Wild Black Cherry		\$32.50	Shepherdia rotundifolia	Roundleaf Buffaloberry		\$152.50
Prunus virginiana	Choke Cherry		\$25.00	Sorbus scopulina	Mountain Ash		\$14.73 oz.
Pseudotsuga menziesii	Douglas Fir		\$13.13 oz.	Sorbus stichensis	Sitka Mountain Ash		\$47.25 oz.
Purshia tridentata	Antelope Bitterbrush		\$27.50	Spirea betulifolia	Spirea		\$29.17 oz.
Pyrus fusca	Western Crabapple		\$52.50 oz.	Spirea densiflora	Subalpine Spirea		\$12.40 oz.
Quercus douglasii	Blue Oak		\$32.50	Spirea douglasii	Douglas Spirea		\$85.00
Quercus garryana	Garry Oak (shipped fresh)		\$12.50	Symphoricarpos albus	Snowberry		\$137.50
Rhamnus alnifolia	Alder Buckthorn		\$43.75 oz.	Symphoricarpos mollis	Creeping Snowberry		\$94.79 oz.
Rhamnus purshina	Cascara Buckthorn		\$210.00	Symphoricarpos occidentalis	Wolfberry		\$187.50
Rhododendron macrophyllum	Bigleaf Rhododendron		\$64.00	Symphoricarpos oreophilus	Mountain Snowberry		\$172.50
Rhus glabra	Smooth Sumac		\$50.00	Syringa oblata	Early Lilac		\$112.50
Rhus laurina	Laurel Sumac		\$187.50	Syringa reflexa	Nodding Lilac		\$32.08 oz.
Rhus ovata	Sugar Bush		\$22.46 oz.	Syringa vulgaris	Common Purple Lilac		\$85.00
Rhus trilobata	Skunkbush		\$70.00	Taxus baccata	English Yew		\$112.50
Ribes alpinum	Alpine Currant		\$81.67 oz.	Taxus brevifolia	Pacific Yew		\$11.96 oz.

Dry  
 Moist  
 Wet  
 Green Roof

Dry  
 Moist  
 Wet  
 Green Roof

SPECIES Botanical Name	Common Name	Applications	Price per Pound
Taxus chinensis	Chinese Yew		\$90.00
Thuja plicata	Western Red Cedar		\$12.83 oz.
Tilia americana	American Basswood		\$55.00
Tsuga heterophylla	Western Hemlock		\$83.75
Tsuga mertensiana	Mountain Hemlock		\$20.20 oz.
Ulmus americana	American Elm	 	\$72.50
Vaccinium alaskaense	Alaska Blueberry	  	\$139.27 oz.
Vaccinium caespitosum	Dwarf Blueberry	  	\$157.50 oz.
Vaccinium deliciosum	Cascade Blueberry	  	\$182.29 oz.
Vaccinium membranaceum	Thin Leaf Huckleberry	  	\$140.00 oz.
Vaccinium ovalifolium	Oval Leaf Huckleberry	  	\$130.67 oz.
Vaccinium ovatum	Evergreen Huckleberry	 	\$35.00 oz.
Vaccinium parvifolium	Red Huckleberry	 	\$43.75 oz.
Viburnum cassinoides	Moosewood	 	\$112.50
Viburnum dentatum	Southern Arrow Wood	  	\$42.50
Viburnum recognitum	Arrow Wood	 	\$20.00
Viburnum trilobum	High Bush Cranberry	 	\$67.50
Yucca filamentosa	Adam's Needle	 	\$151.13
Yucca glauca	Small Soapweed/Spanish Bayonet	 	\$70.00



 Dry  
 Moist  
 Wet  
 Green Roof

 Dry  
 Moist  
 Wet  
 Green Roof

MISCELLANEOUS SPECIES

SPECIES Botanical Name	Common Name	Price per Pound
Agrostis stolonifera	Creeping Bentgrass	\$9.25
Agrostis tenuis var highland	Highland Colonial Bentgrass	\$3.75
Avena sativa	Oats	\$0.60
Brassica napus	Rape Seed	\$0.95
Brassica oleracea acephala	Kale	\$5.00
Bromus hordeaceus	Blando Brome	\$5.00
Bromus inermis	Smooth Brome	\$1.10
Bromus kalmii	Prairie Brome	\$1.80
Dactylis glomerata	Orchardgrass	\$1.15
Echinochloa crus-galli	Wild Millet	\$2.30
Echinochloa esculenta	Japanese Millet	\$0.95
Fagopyrum esculentum	Buckwheat	\$1.50
Festuca arundinacea	Turf Type Tall Fescue	\$0.95
Festuca arundinacea var. fawn	Fawn Tall Fescue	\$0.85
Festuca brevipila	Hard Fescue	\$1.95
Festuca ovina	Sheep Fescue	\$1.75
Festuca ovina var azay blue	Azay Blue Sheep Fescue	\$3.10
Festuca ovina var covar	Covar Sheep Fescue (Certified)	\$4.60
Festuca rubra	Creeping Red Fescue	\$1.00
Festuca rubra subsp fallax	Chewings Fescue	\$1.10
Helianthus annuus	Sunflower	\$12.50
Hordeum vulgare	Barley Beardless Belford	\$0.60
Hordeum vulgare	Poco Barley	\$0.50
Lespedeza cuneata	Lespedeza	\$6.00
Lolium multiflorum	Annual Ryegrass	\$0.50
Lolium multiflorum tetraploid	Tetraploid Annual Ryegrass	\$0.55
Lolium perenne	Perennial Ryegrass	\$1.15
Lolium perenne tetraploid	Tetraploid Perennial Ryegrass	\$1.40
Panicum miliaceum	White Proso Millet	\$1.80
Phleum pratense	Timothy	\$1.75
Poa pratensis	Kentucky Bluegrass	\$1.30
Poa trivialis	Starlite Poa Trivialis	\$2.75
Secale cereale	Cereal Ryegrain	\$0.60
Sorghum bicolor	Sorghum	\$1.65
Sorghum bicolor ssp. drummondii	Sudangrass Sweet	\$2.10
Sorghum valgare x sudanese	Sorghum Sudan 79 Hybred	\$2.50
Triticum aestivum	Soft White Winter Wheat	\$0.35
Triticum aestivum x Elytrigia elongata	Regreen	\$6.00
Triticum aestivum x Secale cereale	Quickguard	\$3.35
Urochloa ramosa	Brown Top Millet	\$1.80
Zea mays dwarf	Dwarf Corn	\$7.50
Zizania aquatica	Wild Rice	\$4.50

☀️ Dry  
 🌿 Moist  
 💧 Wet  
 🏠 Green Roof

SPECIES Botanical Name	Common Name	Applications	Price per Pound
Astragalus cicer	Cicer Milkvetch		\$8.00
Chamaecrista fasciculata	Pea, Partridge	☀️	\$20.00
Cichorium intybus	Chicory	☀️	\$8.50
Coronilla varia	Crownvetch		\$34.00
Lathyrus latifolius	Pea, Perennial		\$24.00
Lathyrus littorialis	Pea, Beach	☀️ 🏠	\$116.00
Lathyrus tuberosus	Pea, Tuberosa		\$72.00
Lotus corniculatus	Birdsfoot Trefoil	☀️ 🏠	\$14.00
Lotus major	Big Trefoil	☀️	\$24.00
Lotus micranthus	Small Flowered Deervetch	☀️	\$75.00
Lotus pinnatus	Meadow Trefoil		\$42.00
Lotus purshiana	Spanish Clover	🏠	\$65.00
Lotus scoparius	Deerweed	☀️ 🏠	\$130.00
Lotus unifoliolatus var. unifoliolatus	American Birdsfoot Trefoil		\$70.00
Medicago sativa	Alfalfa	☀️	\$9.00
Mellilotus officinalis	Sweetclover, Yellow	☀️	\$3.80
Onobrychis viciaefolia	Sainfoin	☀️	\$2.80
Petalostemum candidum	Clover, White Prairie	☀️	\$70.00
Petalostemon purpureum	Clover, Purple Prairie	☀️	\$60.00
Pisum sativum var. arvense	Austrian Winter Peas	☀️	\$1.10
Sanguisorba minor	Small Burnet	☀️	\$2.40
Trifolium ciliolatum	Clover, Foothill		\$13.65 oz.
Trifolium dubium	Clover, Shamrock		\$9.70
Trifolium fragiferum	Clover, Strawberry		\$7.50
Trifolium gracilentum	Clover, Slender	☀️	\$90.00
Trifolium howellii	Clover, Big Leaf		\$110.00
Trifolium hybridum	Clover, Alsike (50# Minimum)		\$1.80
Trifolium incarnatum	Clover, Crimson (50# Minimum)		\$1.40
Trifolium nanum	Clover, Dwarf (Packet 100 seeds)	☀️	\$42.00
Trifolium obtusiflorum	Clover, Creek	☀️	\$30.63 oz.
Trifolium parryi	Clover, Parry's	☀️	\$14.88 oz.
Trifolium plumosum	Clover, Plumed		\$36.75 oz.
Trifolium pratense	Clover, Red		\$2.90
Trifolium pratense	Medium Red Clover		\$2.40
Trifolium pratense var Mammoth	Mammoth Red Clover	☀️	\$3.50
Trifolium procumbens	Clover, Hop	☀️ 🏠	\$74.00
Trifolium repens latum	Clover, Ladino Jumbo	🏠	\$3.90
Trifolium repens latum	VNS Ladino Clover	🏠	\$3.60
Trifolium repens var dutch white	Clover, White Dutch	🏠	\$3.60
Trifolium repens var kopu II	Clover, Kopu II (Certified)	🏠	\$6.00
Trifolium repens var new zealand	Clover, New Zealand (Certified)	🏠	\$3.80
Trifolium subterraneum	Clover, Sub		\$5.70
Trifolium willdenovii	Clover, Tomcat	🏠	\$90.00
Trifolium wormskioldii	Clover, Springbank		\$122.00
Vicia americana	Vetch, American	☀️ 🏠	\$48.00
Vicia nigricans ssp. gigantea	Vetch, Giant	☀️	\$76.00
Vicia sativa	Vetch, Common (50# Minimum)	☀️	\$1.30
Vicia villosa	Vetch, Hairy (10# Minimum)	☀️	\$3.20
Vigna unguiculata	Cow Peas	☀️	\$3.70

☀️ Dry  
 🌿 Moist  
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 🏠 Green Roof

LEGUME SEED



In the summer of 2005 Sunmark Environmental Services, LLC came into being as a link for all our businesses. Sunmark Environmental Services, LLC is the exclusive distributor of Agrecol's "Envirolok" vegetated slope protection. This vegetated slope protection has proven to be highly effective in streambank restoration. We have combined the latest systems in streambank erosion control along with the most knowledgeable team of experts in the erosion control industry. We also supply the river and stream restoration industry with the products necessary to make their projects successful. The products we carry are Permamatrix, Native Seeds and Plants, Soil Bags, Biofiltration Soil Media, EcoLog™, EarthLite™, EcoRoof Soil Media™, EcoLive™ and EcoBiotics™ Organics, BioSwale ES™ Soils, Green Choice ES™ products, ARABiotics™ Recycled Fiber, RainClear™ Stormwater Filtration System, StormGuard™ Filtration Bags, Rain Garden™, and the information and expertise to bring it all together. All of our projects are on the cutting edge of environmental restoration. We are strongly committed to "enhancing" not just "fixing" problems. The use of native plants and native seed mixtures ensures that projects will benefit from habitat enhancement, improved water quality, and permanent fixes to erosion. We can provide many options for a successful project, from supplying products, to full turnkey projects. We can work with any budget. **Please see our web site [www.sunmarkenvironmental.com](http://www.sunmarkenvironmental.com) for more information.**





Product	Description	Application	Price
 <b>PermaMatrix™</b> A HYDRAULICALLY APPLIED SOIL AMENDMENT	PermaMatrix™ Biotic Soil Amendment, is a new LID product that at its core focuses on sustainability by creating a living ecological membrane for depleted soils. Applied hydraulically using readily available equipment, it significantly reduces the impact and the cost associated with replacing topsoil and compost. Native plant diversity and vegetation create sustainable systems.	4000 lbs per acre	<b>\$72.50</b> 50 lb bag
			
	Biochar is pyrolyzed biomass, or biomass that has been burned in the absence of oxygen. This process creates a highly porous structure that provides the optimum host for soil microbes. Biochar also holds 50% of the biomass's carbon and when applied to soil, sequesters that carbon for centuries, reducing the overall amount of atmospheric CO2 by removing it from the active cycle. Biochar also enhances plant growth which absorbs more CO2 from the atmosphere. Overall, these benefits make the biochar process carbon negative	400 lbs per acre	<b>\$1.50 lb</b>
			
 <b>Envirolok™</b> Vegetated Slope Protection	The Envirolok System is a patent pending erosion control and slope stabilization system that creates vegetated slope protection in combination with deep-rooted native plants. The Envirolok™ vegetated slope protection by Sunmark Environmental are strong, environment-friendly alternatives to conventional erosion control systems. Envirolok™ vegetated slope protection create beautiful natural landscapes with native plants.	Erosion Control, Shoreline Stabilization, Stormwater Management, Stream Restorations, Residential Lakeshore Preservation and Remediation, Landscape Enhancements, Creating Naturalized Buffers Along Tributaries	<b>\$8.50 unit</b>
	The FishWay Rx™ system incorporates a naturally vegetated slope protection utilizing Envirolok™ and a pre-engineered pre-built grated bridge. The Fishway Rx™ bridge span will allow light and water into the stream bed enhancing the native plants community, while providing a seamless passage for aquatic organisms. FishWay Rx™ can be designed to storm events minimizing washouts and extending the life of the crossing. The Envirolok™ system is locked into place with geosynthetic strapping, anchor spikes, and completed with native plant vegetation that provides a natural habitat for fish migration.	Fish Passage Improvement Culvert Replacement Roadsides Bridges Embankments	Call
<a href="http://www.fishwayrx.com.com">www.fishwayrx.com.com</a>			
	<b>EcoLive™ Organics</b> Natural Growth Enhancer with Mycorrhiza, is a natural highly concentrated organic material with the addition of mycorrhizal fungi. This unique combination provides a critical linkage between the plant, root, and soil. A key part of water conservation, EcoLive™ Organics absorbs and holds water and nutrients for a improved plant community. Blended into a seed mixture or soil blend, EcoLive™ will increase germination, improve soil micronutrients, develop greater root mass, and produce a more sustainable and healthy ecosystem."	1.5 lbs per 1000 sq ft.	<b>\$7.50</b> per lb
	<b>EcoBiotics™ Microbiological Organics</b> are a formulation of microbes and organics that aid in germination and plant establishment. EcoBiotics™ contain a mixture of finely powdered raw materials amended with micro-organisms that consume and eliminate dangerous or unwanted hydrocarbon based contaminants such as petroleum products and other pollutants. This process is called bioremediation. They also provide a nutritional benefit along with root stimulation for a healthy plant community and delivers active beneficial micro-organisms to the germinating seeds and surrounding rhizosphere.	1.5 lbs per 1000 sq ft.	<b>\$7.50</b> per lb

Product	Description	Application	Price
 <b>EarthLite™</b> STORMWATER FILTER MEDIA	<b>Earthlite™ Filter Media</b> will solve stormwater problems naturally. Reducing harmful runoff during events where large amounts of water from rooftops or impervious surfaces inundate the stormwater system. Earthlite™ Filter Media will cleanse the water, and release it back to groundwater storage naturally, without chemicals, high maintenance or major facility upgrades. This ultra porous ceramic media gives the engineer or landscape architect the design flexibility to provide both onsite water treatment and preserve or create an aesthetically pleasing landscape.	55# per yard	<b>.50 per lb.</b>
<a href="http://www.earth-lite.com">www.earth-lite.com</a>			
 <b>STORM GUARD™</b> FILTRATION BAGS	<b>StormGuard™ Filtration Bags</b> are made of an advanced geosynthetic material that provides high flow rates and is UV resistant. These bags are filled with Earthlite™ filter media. Independent testing shows that the filter media removes, TSS, Heavy Metals, Phosphorus, Oil and Grease, and E.Coli.	Filtration Bags in swales, ditches, as check dams and in high flow areas. Can be used around storm drains to filter stormwater before being discharged to watershed.	<b>\$38.50 ea</b>
			
 <b>RainClear™</b> 2-STAGE STORMWATER FILTER	<b>RainClear™ Two Stage Stormwater Filtration</b> System is a highly effective storm water filtration system capable of treating large and sustained stormwater events. Each RainClear™ system is custom engineered for site specific needs and utilizes a unique 2 stage approach which includes a native plant biofiltration swale and filter bay with Earthlite™ Filter Media. This unique system is designed for treatment and removal of Turbidity (TSS), Chemicals (Nitrogen, Phosphorus), Heavy Metals (Copper, Zinc, Lead), and Oil & Gas (Petrochemicals).	Commercial, Residential, Municipalities, Agencies anywhere with stormwater issues on sensitive waterways. Can be designed for large or small sites.	Call
 <b>EarthLite™</b> EXTENSIVE - PERFORMANCE	<b>Earthlite Extensive™ Performance Green Roof Media.</b> This mix has been developed for optimum performance in a shallow profile lightweight EcoRoof media. It is a key element in phytoremediation and bioremediation treatment for EcoRoofs. This EcoRoof media was designed to meet specific engineering requirements and LEED accreditation, along with superior plant performance, stormwater filtration, and low maintenance. Able to support a wide variety of native plants, grasses, and sedums, this mix is the foundation of a successful EcoRoof. Benefits include runoff reduction, storm water flow mitigation, extended roof life, improved air quality and better insulated buildings.	16# 6 in deep	<b>\$98.50</b>
<a href="http://www.earth-lite.com">www.earth-lite.com</a>			
 <b>EarthLite™</b> ECO ROOF MEDIA	<b>Earthlite™ in a Bag</b> – One of the issues that green roof installers and homeowners have encountered is getting the media onto the roof. Whether it's a skyscraper or a tool shed this can be a daunting task. Sunmark has developed a method that allows for ease of media installation through a sustainable approach. Earthlite™ bags are now available in a 100% biodegradable burlap bag that has been made for green roof applications. The bag is made from hemp fibers which allows for direct placement and planting on the roof. This Eco-Bag has benefits of moisture retention, wind erosion prevention, and will biodegrade into a food source for the plants.	1 bag = cu ft 2.75 sq ft. @4" deep 37# per pag	<b>\$8.95</b> per bag
			
 <b>EarthLite™</b> BIO STRUCTURE SOIL MIX	<b>Earthlite™ BioStructure Soil Mix</b> is a designed medium which can meet or exceed pavement design and installation requirements while remaining root penetrable and supportive of tree growth. BioStructure™ is the complete package with everything needed to grow and sustain large urban street trees.	91#	<b>\$85.50</b>
<a href="http://www.earth-lite.com">www.earth-lite.com</a>			



- Field Products and Soil Solutions
- Tools and Accessories
- Water Management Solutions
- Water Movement Solutions

In 1996 Sunmark Seeds International, Inc. expanded its product line to include sports field products, engineered soils and conditioners. **Sunmark Sports** was born. We have quickly grown to provide Oregon, Washington, Northern California, Idaho, Montana, and Utah with the best product solutions for sports fields in the industry. We have extensive knowledge of infield soils, turf zone soils, soil conditioners, top dressing, mound repair kits, tarps, warning track material, tools and equipment as well as technical assistance. Please visit our web site [www.sunmarksports.com](http://www.sunmarksports.com) for more information and to meet our highly trained and professional sales staff.





Players Choice™ Professional Grade ES 4.6 Infield Soil Mixture is a premium, sand based soil blend, amended with a moderate amount of red clay.

Players Choice™ ES 4.6 will drain well and recover quickly, yet has enough clay to remain firm. This blend works best in regions with more than 40" of annual rainfall.

**Specifications:**  
1 Cubic Yards equals = 1.14 tons

**Availability:**  
Bulk Only



Players Choice™ Professional Grade ES 5.5 Infield Soil Mixture provides a high quality playing surface, to programs desiring a balance between red clay, silt, and sand.

Players Choice™ ES 5.5 resembles the infield of most professional baseball fields. This blend works best in regions with less than 40" of annual rainfall.

**Specifications:**  
1 Cubic Yards equals = 1.2 tons

**Availability:**  
Bulk Only



Players Choice™ Professional Grade ES 6.4 Infield Soil Mixture provides a high quality playing surface, to programs wanting the benefits of a red clay infield.

Players Choice™ ES 6.4 will shed water rather than passing it, yet has enough sand to remain soft when wet. This blend works best in regions with

less than 35" of annual rainfall.

**Specifications:**  
1 Cubic Yards equals = 1.16 tons

**Availability:**  
Bulk Only



Players Choice™ Red Infield Conditioner is a premium vitrified soil conditioner. Improve infield playability, reduce rain outs and create a safer playing surface. PC Red Infield Conditioner will absorb moisture during wet times, help retain moisture during dry times, and add pore space back into compacted soils.

**Specifications:**  
1.3 Cubic Yards = 1 Ton

**Availability:**  
50 lb. all weather bags – 40 bags / ton  
2,000 lb. Super Sacks  
Bulk (24 & 32 ton full truck loads)



Red Diamond CC Conditioner is professional grade calcined clay infield conditioner improves infield surface safety and performance. Highly absorbent, all natural, kiln fired clay performs well in wetter climates keeping your athletes on the field.

**Specifications:**  
1.4 Cubic Yards = 1 Ton  
2,000 lb. Super Sacks

**Availability:**  
50 lb. bags – 40 bags / ton



Red Diamond CC Drying Agent™ Drying Agent Is the perfect choice for a game day emergency. Prevent rain outs, soak up wet spots, and improve safety during the wet season. Red Diamond CC Drying Agent will quickly absorb water and dry the field faster, reducing rain delays and unsafe, muddy conditions.

**Specifications:**  
1.7 Cubic Yards = 1 Ton

**Availability:**  
25 lb. & 50 lb. bags – 80 & 40 bags / ton



Players Choice™ Mound & Home Plate Clay is a premium blend of red clay, silt, and sand. PC Mound & Plate Clay is used to construct, repair, or re-build pitcher's mound, batters boxes, & the catcher's box. This professional grade product easily tamps into place, conforms to existing soils, and helps to provide greater durability to high-stress areas.

**Specifications:**  
1.2 Cubic Yards = 1 Ton  
1 – 50 lb Bag = 4 Sq. Ft.,  
2" Thick

**Availability:**  
50# Bags - 40 Bags / Ton



Players Choice™ Clay Bricks are premium unfired compressed clay bricks, perfect for building or repairing the high stress areas of your ball field. When the bricks are placed and watered in, they simply turn to firm clay mass to provide durability and reduce maintenance in the high stress areas.

**Specifications:**  
5.5 lbs. per brick  
4" wide, 8" long, 2.5" Thick

**Availability:**  
Per Brick  
Per Pallet = 400 bricks



Players Choice™ Marking Dust  
Bright premium marking dust complies with the NCAA rules for athletic field marking dust. Product is non-toxic, non-irritating and will not burn or effect turf grass, or soil.

**BASEBALL**



Players Choice™ MHP Kits are an all inclusive mound and home plate repair package. Players Choice MHP Kits include the following materials:

- 275 Players Choice™ Clay Bricks
- 10 Bags – Players Choice™ Mound Clay
- 10 Bags – Players Choice™ Infield Conditioner

Each MHP Kit contains enough bricks, mound clay, and infield conditioner to do the following: 1 - Pitching Mound High Stress Area, 1 - Catcher's Box, 2 - Batters Boxes



Players Choice™ Bull Pen Kits is a modified MHP Kit. Material includes:

- 50 Players Choice™ Clay Bricks
- 5 Bags – Players Choice™ Mound Clay
- 5 Bags – Players Choice™ Infield Conditioner

A BP Kit will be able to repair both visitor and home bull pens in front of the rubber, and at the foot strike zone of the mound

**MOUND HOME / PLATE**

**LAYOUT OF MHP KIT**

BRICK = 4" x 8" x 2.5"

**PITCHER'S MOUND:**  
Approximate number of bricks needed: 91

**HOME PLATE BATTERS AND CATCHERS BOXES:**  
Approximate number of bricks needed: 200

Availability: see MHP Kit above for product list to make a MHP Kit



**SOFTBALL**



Players Choice™ PCHP Kits are an all inclusive pitching circle and home plate repair package designed specifically for softball. Players Choice™ PCHP Kits include the following materials:

- 305 Players Choice™ Clay Bricks
- 10 Bags – Players Choice™ Pitchers Circle
- 10 Bags – Players Choice™ Infield Conditioner



**PITCHING CIRCLE / HOME PLATE**

**LAYOUT OF PCHP KIT**

BRICK = 4" x 8" x 2.5"

**PITCHERS CIRCLE**  
Approximate number of bricks needed: 111

**HOME PLATE BATTERS AND CATCHERS BOXES:**  
Approximate number of bricks needed: 200

Availability: see PCHP Kit above for product list to make a MHP Kit



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