



**Earth-Kind® Rose Cultivars**

	<b>cold hardiness zone*</b>	<b>bloom shape</b>	<b>color</b>	<b>fragrance</b>	<b>repeat</b>
<b>Dwarf Shrubs (3' x 3')</b>					
• Marie Daly	5	medium	pink double	yes	yes
• Souvenir de St. Anne's	6	light pink, semi	double	yes	yes
• The Fairy	4	light pink	double	no	yes
<b>Small Shrubs (4' x 4')</b>					
• Caldwell Pink	6	light pink, carnation-like		no	yes
• Cecile Brunner	5	light pink, double		yes	yes
• Perle d'Or	6	apricot to pink	double	yes	yes
<b>Medium Shrubs (5 x 5')</b>					
• Belinda's Dream	5	med. pink, very	double	yes	yes
• Carefree Beauty	4	deep pink, semi-double		yes	yes
• Else Poulsen	5	light pink, semi-double		no	yes
• Knock Out	5	cherry red, single		no	yes
• La Marne	5	pink/wht blend, cupped		no	yes
• Mutabilis	6	yel/pink to crimson, single		no	yes
<b>Mannerly Climbers (8' x 8')</b>					
• Climbing Pinkie	6	med. pink, semi-double		yes	spring blm.
• Sea Foam	4	creamy white, double		no	yes
<b>Vigorous Climbers (15-20' x 10')</b>					
• New Dawn	4	blush pink, double		yes	yes

**For additional information -**  
<http://aggie-horticulture.tamu.edu/earthkind/>

**Denver Rose Society-**  
[www.denverrosesociety.org](http://www.denverrosesociety.org)

**\*Cold Hardiness Zones**-average annual cold temperatures

- 6 -10
- 5 -20
- 4 -30
- 3 -40

## **EarthKind™ Soil Improvement using expanded shale**

Great gardens start with great soils. A great soil is one that water easily will infiltrate, yet holds moisture. Our clay soils are often compacted, water will run off, and once wet they stay too wet. Sandy soils often drain too quickly and need watering frequently. Working in compost can improve all soils by adding aeration and nutrients to clay soils and adding nutrients and water holding capacity to sands. Soil structure is built by digging and incorporating organic matter into the soil. Maintaining organic mulches on the top of amended soils will also provide long term benefits.

### **Benefits of EarthKind™ Soils:**

- Little to no water is needed once plants are established
- Additional fertilizer will not be needed for plant growth



EarthKind™ soil improvement was developed at Texas A&M by Dr. Steve George's research with the goal of gardening with less water and less fertilizer. They have found that by following their soil development methods – roses, vegetables and perennials could survive without supplemental water once they were established. They also found that these crops could be grown without additional fertilizer. How is this done? By building the soil and not just treating the soil.

This is a system of not amending the planting hole, but growing in planting beds and amending the entire planting bed. Once built, these beds will be slightly raised from the ground level due to the amount of soil amendment.

Always start with a soil test and adjust the pH, phosphorus and potassium content (if needed) prior to working the soil. You've got one good chance to make these changes and that is when working the soil. Next, work or hand dig the soil to a depth of 6 inches to remove compaction.

For clay soils - incorporate three inches of expanded shale (3/8" particle size) into the top six inches of soil. If using a bagged product, lay the bags end-to-end on the ground and pour them out as they lay. Do not spread. It needs to be 3 inches deep. Work it in six inches deep. This will add greatly to infiltration of water and rainfall and will allow for deeper rooting than in compacted soils. Expanded shale is available in both bulk and as a bagged product. Ask for it at your garden center.

Compost is an essential amendment to both sand and clay soils. It holds moisture in loose sandy soils and slowly releases nutrients in all soils. Work a minimum of three inches of fully finished compost into your EarthKind™ soil. Crops grown in EarthKind™ soils all benefit from maintaining a three-inch mulch with organic mulch.

### ***Building EarthKind™ Soils:***

#### **Clay soil improvement**

- Adjust pH, phosphorus and potassium levels according to soil test results
- Work soil 6 inches deep
- Apply 3 inches of expanded shale (3/8" diameter)
- Work into top six inches of soil
- Apply 3 inches of compost
- Work in 6 inches deep
- Plant desired roses, shrubs, perennials, vegetables
- Mulch with 3 inches of mulch

#### **Sandy & Loam soil improvement**

- Adjust pH, phosphorus and potassium levels according to soil test results
- Work soil 6 inches deep
- Apply 3 inches of compost
- Work in 6 inches deep
- Mulch with 3 inches of mulch

**Resources:**

- American Rose Society: [www.ars.org](http://www.ars.org) 318 938-5402  
4 month Trial Membership \$10.00
- Denver Rose Society: [www.denverrosesociety.org](http://www.denverrosesociety.org), Membership Mark Kirby, [yak2000@msn.com](mailto:yak2000@msn.com), 303 278-3521 Annual membership \$15 (\$20 if receiving paper copy of newsletter)
- Growing Roses in Colorado book: <http://www.denverrosesociety.org/education.htm>, David Ingram, [DJIngram26@msn.com](mailto:DJIngram26@msn.com), 303 420-8709
- Mile Hi Rose Feed: [www.milehighrosefeed.com](http://www.milehighrosefeed.com), Royal Franklin, 303 795-6768
- To research roses: [www.helpmefind/roses/.com](http://www.helpmefind/roses/.com)
- Combined Rose List (issued annually) Beverly R. Dobson and Peter Schneider: <http://www.combinedroselist.com/>
- Compendium of Rose Diseases and Pests, second edition, Dr. Kenneth Horst, <http://www.shopapspress.org/coofrodiandp.html> or Amazon
- Colorado State University: <http://www.ext.colostate.edu/>
- Good Earth R.O.S.E. Care American Rose Society [organicrosecare.org](http://www.organicrosecare.org)
- OMRI Organic Materials Review Institute [omri.org](http://www.omri.org)

**Rose Events/ Area Public Gardens:**

- Denver Rose Society Old Garden Rose Display and Sale: June 6, Denver Botanic Gardens
- Denver Rose Society Rose Show: September 12, Denver Botanic Gardens
- Littleton War Memorial: 5804 S. Bemis, 800 plants, 100 varieties, 303 721-8478
- Jefferson County Sheriff's complex, 200 Jefferson County Parkway, 1500 plants, 400 varieties
- Hudson Gardens, 6115 S. Santa Fe Drive, 200 modern roses, 303 797-8565
- Fairmount Cemetery, 430 S. Quebec, 300 roses, 59 varieties, many from 1800s.  
**TOUR, June 19, 2010 for information 303 499-0692**
- Denver Botanic Gardens, 909 York Street, Denver
- Longmont Memorial Rose Garden, 700 Longs Peak Avenue, 1800 plants, 190 varieties

**Products:**

- GreenCure: organic fungicide, [www.greencure.net](http://www.greencure.net) 607 797-0668

**Expanded Shale Resources:**

- Renewable Fiber—bulk, cubic yards only, <http://www.renewablefiber.com/> 303 798-1292
- Paulino Gardens—1 cubic foot bags, <http://www.paulinogardens.com/> 303 429-8062
- Harlequin's Gardens, Boulder—1 cubic foot bags, <http://www.harlequinsgardens.com/>, 303 939-9403
- Arbor Rock, Inc. is the wholesaler in Loveland for bagged expanded shale, have your area retailers contact: 970 663-6733, Bart Richards, [www.arborrock.com](http://www.arborrock.com)

**Mail Order Roses:**

- High Country Roses, Jensen, UT, 800-552-2082, [www.highcountryroses.com](http://www.highcountryroses.com)
- Chamblee's Rose Nursery, Tyler, TX, 800-256-ROSE, [www.chambleeroses.com](http://www.chambleeroses.com)
- Heirloom Roses, St. Paul, OR, 503-538-1576, [www.heirloomroses.com](http://www.heirloomroses.com)
- John's Miniatures, St. Paul, OR, 800-820-0465, [www.johnsminiatures.com](http://www.johnsminiatures.com)
- Roses Unlimited, Laurens, SC, 864-682-7673, [www.rosesunlimiteddownroot.com](http://www.rosesunlimiteddownroot.com)
- Vintage Gardens, Sebastopol, CA, 707-829-2035, [www.vintagegardens.com](http://www.vintagegardens.com)
- Rosemania, Franklin, TN, 888-600-9665, [www.rosemania.com](http://www.rosemania.com)
- Northland Rosarium, Spokane, WA, 509-448-4968, [www.northlandrosarium.com](http://www.northlandrosarium.com)
- David Austin Roses, Tyler, TX, 800-328-8893, [www.davidaustinroses.com/american](http://www.davidaustinroses.com/american)
- Gwen's Minis- Gwen Kelaidis, [gwensminiroses.com](http://www.gwensminiroses.com)